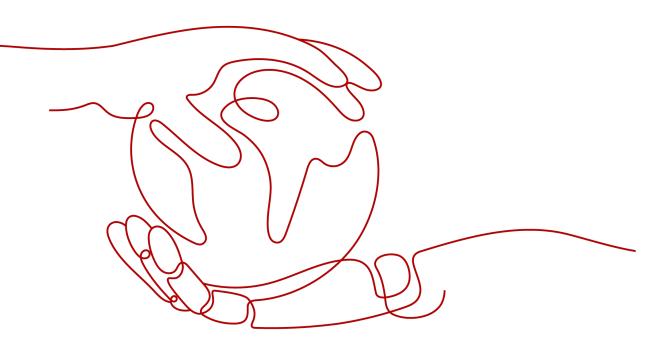
Flexus L Instance

Best Practices

 Issue
 01

 Date
 2025-02-14





HUAWEI CLOUD COMPUTING TECHNOLOGIES CO., LTD.

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Contents

1 Best Practices for FlexusL	1
2 Setting Up a Website	3
2.1 Managing Servers Using the BT Panel	3
2.2 Building a WordPress Website	13
2.3 Using Matomo to Build a Website Traffic Statistics System	31
2.4 Using Odoo to Build an ERP System	40
2.5 Using Moodle to Build an Online Learning System	53
2.6 Using Joomla to Build a Content Management System	61
2.7 Using Ghost to Build a Personal Blog	71
2.8 Using EspoCRM to Build a Content Management System	81
3 Setting Up the Development Environment	90
3.1 Using Portainer to Deploy a MySQL Container	90
3.2 Using Node.js to Run Node.js Programs	
4 Setting Up an Application	105
4.1 Project Management Scenarios	
4.1.1 Using GitLab to Manage Teams and Projects	
4.1.2 Using Redmine to Create a Project	119
4.2 Cloud Disk Scenarios	
4.2.1 Using Nextcloud to Set Up an Enterprise Web Disk System	128
4.2.2 Using Kodbox to Quickly Set Up a Cloud Disk	136
4.3 E-commerce	
4.3.1 Using Windows Server to Set Up a Cross-Border E-Commerce Store	
4.3.2 Using PrestaShop to Build an E-Commerce Website	
4.4 Audio and Video Scenarios	
4.4.1 Pushing Local PC Desktop Streams to SRS Using OBS	
4.5 Website Data Analysis	
4.5.1 Using Superset to Obtain Data from MySQL for Analysis	
5 Server Migration	
5.1 Using Images to Migrate FlexusL Instances to ECSs	
5.2 Using SMS to Migrate Servers to FlexusL Instances	190



After purchasing a FlexusL instance, you can build environments on it. This document describes how to set up a website and development environment based on FlexusL instances.

Table 1-1 Best practices

ltem	Helpful Link
Setting Up a Website	 Managing Servers Using the BT Panel Building a WordPress Website Using Matomo to Build a Website Traffic Statistics System Using Odoo to Build an ERP System Using Moodle to Build an Online Learning System Using Joomla to Build a Content Management System Using Ghost to Build a Personal Blog Using EspoCRM to Build a Content Management System
Setting Up the Developmen t Environment	 Using Portainer to Deploy a MySQL Container Using Node.js to Run Node.js Programs

ltem	Helpful Link
Setting Up	Project management scenarios
an	Using GitLab to Manage Teams and Projects
Application	Using Redmine to Create a Project
	Cloud disk scenarios
	Using Nextcloud to Set Up an Enterprise Web Disk System
	Using Kodbox to Quickly Set Up a Cloud Disk
	E-commerce
	Using Windows Server to Set Up a Cross-Border E- Commerce Store
	Using PrestaShop to Build an E-Commerce Website
	Audio and video scenarios
	Pushing Local PC Desktop Streams to SRS Using OBS
	Website data analysis
	Using Superset to Obtain Data from MySQL for Analysis
Server	Using Images to Migrate FlexusL Instances to ECSs
Migration	Using SMS to Migrate Servers to FlexusL Instances

2 Setting Up a Website

2.1 Managing Servers Using the BT Panel

Application Scenario

The BT panel is a visualized server management software that supports more than 100 server management functions, such as one-click LAMP, LNMP, monitoring, website, FTP, database, and Java. Supported By FlexusL, the BT panel application image uses Ubuntu 22.04 and provides a web client for you to manage servers, such as website or file management, graphical monitoring, and task planning. You can use this application image to manage servers.

Resource Planning and Costs

Resource	Configuration	Description
Cloud server	vCPUs: 2Memory: 2 GiB	A BT panel application image requires at least 2 vCPUs and 2 GiB of memory. Select appropriate instance specifications accordingly.
Image	BT panel	Select the BT panel application image.
Security group	 Inbound rule: Protocol/ Application: TCP Port: 80, 443, 8888, 3306, or 9090 Source: 0.0.0.0/0 	 80: Allows HTTP traffic to FlexusL instances. 443: Allows HTTPS traffic to FlexusL instances. 8888: Allows access to the BT panel. 3306: Allows access to MySQL databases. 9090: Allows access to the phpMyAdmin database management tool

Process

Procedure	Description	
Step 1: Purchase a FlexusL Instance	Purchase a FlexusL instance and select the BT panel application image.	
Step 2: Configure a Security Group	Add inbound security group rules to ensure that the application preinstalled in the image can be accessed.	
Step 3: Reset the Password and Log In to the FlexusL Instance	A FlexusL instance does not have an initial password. After creating a FlexusL instance, set a password for the FlexusL instance before logging in to it.	
Step 4: Initialize the BT Panel	Log in to the BT dashboard and install the basic software bundle.	
Step 5: Deploy the BT Panel	 On the dashboard, perform the following operations: Configure domain names. Install an SSL certificate for your website. Manage software. Manage files. Manage logs. 	

Step 1: Purchase a FlexusL Instance

- 1. Log in to the FlexusLconsole and click **Buy FlexusL**.
- 2. Specify required parameters for the FlexusL instance.

lon									
	4-Hong Kong AP-Ba	ngkok TR-Istanbul	LA-Sao Paulo1	ME-Riyadh LA-Mexico	City2 LA-Santage	D			
ow network latency and	quick resource access, seld	ct the region nearest to your ta	rget users.						
lication Images	OS Images Private								
Website setu			rce Enterprise ap	plications Private cloud	disks Audio and v	ideo			
вт	•	So.	90	6	Ψ	ERP	2	alı	
BT panel	WordPress	Portainer	PrestaShop	Nextcloud	GitLab	Odoo	Superset	Matomo	
6.8.35	6.4	2.19.4	8.1.5	28.0.3	16.9.3	17.0	3.1.1	5.0.3	
585	G	0		к		0	E		
SRS	Redmine	Node.js	Moodle	Kodbax	Joomla	Ghost	EspoCRM		
6.0.101	5.1	21	4.3.4	1.49	5.0.3	5.67	8.0		
	Ubuntu 22.04 server 64bi		web-based management	security management lask si	beduling file managemen	nt, one-click creation of website	s FTP and SSL and core	visience and switchover of m	ticle PHP version
						arketplace EULA and Marketpla			
nce Specifications									
🗢 2 vCPU	2 GIB	💿 2 vCPU	4 GiB	💿 2 vCPU	8 GiB	💿 4 vCPU	8 GiB	🤨 4 vCP	U 16 GiB
istem Disk	60 GIB	System Disk	10 GIB	System Disk	160 GIB	System Disk	240 GIB	System Disk	320 GIB
ak Bandwidth	30 Mbps	Peak Bandwidth	10 Mbps	Peak Bandwidth	20 Mbps	Peak Bandwidth	30 Mbps	Peak Bandwidth	30 Mbps
ita Package	3,072 GB	Data Package	1,016 GB	Data Package	5,120 GB	Data Package	6,144 GB	Data Package	7,168 GB
9.00 USD Imor	n	\$19.00 USD inc	ath	\$39.00 USD /r	onth	\$59.00 USD //	nonth	\$79.00 USD	Imonth
xcess outbound traffic	out of the package will be b	led by traffic and generate ad	sitional costs. Learn mo	re [2]					
ional) Instance Nar	ne								
example		In a batch creation, a hyphen fol	owed by an incremental num	ter is added to the end of each insta	nce name by default.				
Data Disk (E)	VS)								
Provides persiste	nt block storage. With data	edundancy and cache acceleri	ation, EVS delivers highly	reliable, durable, low-latency,	itable storage.		Data Disk Ca	pacty 10G85 \$0.9	1 USD month
	y (HSS Basic Edition								
Provides weak pa	issword detection and scan	for vulnerabilities, brute-force	attacks, and unauthorize	d logins.				\$1.5	0 USD /month
Cloud Backu	ip Vault (CBR) use data backup functions.					Vault Capacity	Total Desire -		2 USD /month
Provides easy-to	use data backup functions.					vaun capacity	1038 Backup Holicy	defaultPolicy \$2.5	2 USD month
aired Duration									
month 2 month	ta S mortta	4 months 6 months	6 months	7 months 8 months	artnom 6	1 year			
month 2 mont			6 months	7 months 8 months	9 months	1 year			
nonth 2 more	ts S months		6 manths	7 months 8 months	9 months	1 year			

Para meter	Example	Description
Regio n	CN-Hong Kong	For low network latency and quick resource access, select the region nearest to your target users. After a FlexusL instance is created, the region cannot be changed. Exercise caution when selecting a region.
Applic ation Image	BT panel	Select the BT panel application image.
Instan ce Specifi cation s	2 vCPUs 2 GiB of memory and 60 GiB system disk	Select instance specifications as needed.
lnstan ce Name	BT-Example	Customize an instance name that is easy to identify, for example, BT-Example.

Para meter	Example	Description
(Optio nal) Associ ated Servic es	 Data disk: 10 GiB Host security Cloud backup vault: 70 GiB 	You can bundle any of EVS, HSS (basic edition), and CBR to your FlexusL instances as needed and set specifications as needed.
Requir ed Durati on	1 month	The minimum duration of a purchase is one month and the maximum duration is three years. Auto-renew is enabled by default, which means the purchased FlexusL instances will be automatically renewed before they expire. If you do not enable auto-renew during the purchase process, you can still enable it later after the instances are created. For more information about auto-renewal rules, see Auto-Renewal Rules.
Quant ity	1	Set the number of FlexusL instances to be purchased.

- 3. Click **Buy Now** and complete the payment as prompted.
- 4. Go back to the FlexusL console and view the purchased FlexusL instance.

Step 2: Configure a Security Group

- 1. Log in to the FlexusL **console** and click a resource card to go to the instance details page.
- 2. In the navigation pane on the left, choose **Cloud Servers**. Locate the server and click its name.

-	egion CN-Hong Kong 2 vCPU ended and end ended and ended and ende
Overview Cloud Servers	Cloud Servers
EVS Disks	
 Cloud Backup Vault Host Security 	s hcss_ecs_4d44 ID: eb0fa7c2-76f6-4fe C Running 2 vCPU

3. On the **Security Groups** tab, click **Add Rule**. In the displayed dialog box, add rules displayed in the following figure and click **OK**.

The following figure only displays common rules. You can add more rules as needed.

Overview Domain Names Secu	Disks	Network Inte	rfaces				
Basic Information	Add Inbound R	Cule Learn how	r to add a rule 🖄				
192.168.9.255 (primary)	If you select IP a	address for Source	, you can enter mult	iple IP addresses. Each IP addres	s represents a different security	group rule.	
	Security Group	sg-default-smb					
Rules Learn how to add a rule		Action	Туре	Protocol & Port	Source	Description	Operation
Security Group sg-default-s	1	Allow V	IPv4 V	TCP (Custom ports) V 8888	IP address ∨ 0.0.0.0/0		📾 Delete
Add Rule Delete	1	Allow V	IPv4 V	TCP (Custom ports) V 3306	IP address V 0.0.0.0/0		🛱 Delete
□ Priority ↔	1	Allow V	IPv4 V	TCP (Custom ports) V 9090	IP address V 0.0.0.0/0		🛱 Delete
1	Add Rule					I	
- 1				ОК Салсо	el		

Table 2-1 Security group rules

Priorit y	Actio n	Тур е	Protocol & Port	Source	Description		
1	Allow	IPv 4	TCP: 3306	0.0.0.0/0	Allows access to MySQL databases.		
1	Allow	IPv 4	TCP: 9090	0.0.0.0/0	Allows access to the phpMyAdmin database management tool.		
1	Allow	IPv 4	TCP: 8888	0.0.0.0/0	Allows access to the BT panel dashboard.		
1	Allow	IPv 4	TCP: 443	0.0.0.0/0	Allows HTTPS traffic to FlexusL instances.		
1	Allow	IPv 4	TCP: 80	0.0.0.0/0	Allows HTTP traffic to FlexusL instances.		

Step 3: Reset the Password and Log In to the FlexusL Instance

This section describes how to log in to a FlexusL instance. A FlexusL instance does not have an initial password. After creating a FlexusL instance, set a password for the FlexusL instance before logging in to it.

1. In the **Image** area on the **Overview** page of the FlexusL console, click **Access** to go to the application dashboard and check whether the application has been up and running. If yes, go to the next step.

NOTICE

Wait for several minutes until the image with the pre-installed application is up and running. Then, you can perform operations such as restarting or stopping the instance, or resetting the password. Otherwise, the initial password may become invalid and you cannot log in to the application dashboard.

Figure 2-1 Entry to the application dashboard

After the application is started, the initialization wizard page of the dashboard is displayed.

	🕀 QR code login is more secure	्ष
aaPai	nel Linux panel	
administrator		\odot
		\odot
	Login	
	Forget Passw	/ord>>

NOTE

If the dashboard is not properly displayed, check the following causes:

- The port for accessing the dashboard is not allowed. Check whether the port is allowed based on **Step 2: Configure a Security Group**.
- The dashboard is being started. Try again later.
- 2. Locate the resource card and choose > **Reset Password** to reset the password.

A FlexusL instance does not have an initial password. Set a password for the FlexusL instance before logging in to it. For details, see **Resetting the Password for a FlexusL Instance**.

Figure 2-2 Resetting a password

FlexusL (1)	
Batch operation ⑦	
Running CN Ease	elevenese (18-18) (Parcineteriti M.
In use, 31 days until expirat	🖸 Remote Login 🗔 Renew …
	Stop Restart Reset Password Upgrade

3. Locate the target instance and click **Remote Login** and enter the username and password as prompted to log in to the FlexusL instance.

The username is **root**, and the password is the one set in **2**.

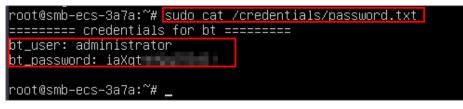
Flexus L Instance (1)	
Q Search or filter by name.	
FlexusL (1)	
Batch operation ⑦	
Running CN North-Beijing4	
EIP:1 Private IP:1	
In use, 31 days until expirat 🔲 Remote Login 🗔 Renew \cdots	

Step 4: Initialize the BT Panel

Application images use code-based Ubuntu. They provide graphical user interfaces to make your operations easier. You need to initialize the application dashboard upon the first login. Then you can directly log in to the dashboard from the FlexusL console afterwards.

1. Obtain the administrator username and password for logging in to the BT panel.

Log in to the server and run sudo cat /credentials/password.txt to obtain the username and password for logging in to the BT panel.



2. On the **Overview** page, click **Access** in the **Dashboard** field in the **Image** area.

88 Overview		
Cloud Servers	Resource Overview	de Process Flow 💿 Usage Guideline
EVS Daka Cloud Backup Vaults Host Security	Coud Instance Static IP 1 System Dex 1 System Dex	Elestic Volume Security S 1 Data Disk 1 Basic Eason
	Data Package	Network
	400.0.06 0.0.08 0%	EIP 100.50 🗰 🗗 Peak Bandwidth 3 Monts
	Server	Image Learn more >
	tros_ercs_fife 0 Running	Clashboard http://www.shipid.com/

NOTE

If the dashboard is not properly displayed, check the following causes:

- The port for accessing the dashboard is not allowed. Check whether the port is allowed based on **Step 2: Configure a Security Group**.
- The dashboard is being started. Try again later.
- 3. Enter the username and password obtained in **1** and click **Login**.

	🕀 QR code login is more secure	्ष
aaPai	nel Linux panel	
administrator		\odot
·····		\odot
	Login	
	Forget Passw	/ord>>

NOTE

If a message is displayed indicating that the username or password you entered is invalid when you attempt to log in to the application dashboard, refer to Why Can't I Access the Dashboard of the Application Pre-installed in the Application Image After Entering the Initial Username and Password?

4. Install the basic software bundle.

You can select recommended software packages and click **One-click** to install them when you log in to the dashboard for the first time.

You can also close the popup and select other software from **App Store** and install them afterwards.

🖓 94.74. 34 (19	A Account 📝 Feedback 🕫 System: Ubur	v22.04.2 LTS x86, 64(Py137.8) Time of running0 Day(s)	TREE 6.8.35 Update* Fix Restart
Home			
Website	Roy new Pro Advantages - All paid	olugins 🗸 Low then \$0.52/day 🗳 2 free 1-year DV SSL (for year) 🗳 Replaceable authorized IP 🗳 Priority response service 🗳 15 days no reason to refu	nd 🖌 Paid service group (for year)
≜ FTP	Status	Recommended software packages	
Databases	Load status (0)	CPU A Recommended to use the following one-click packages, please choose on demand or in Software Store	
# Docker		Recommended to use the following one-click packages, please choose on demand or in Software Store choose by yourself, recommended to install LEMP,	
3 Monitor	3%	0 LNMP(Recommended) LAMP	
⊘ Security		200 G Nyin 121 V Z Apatre 24 V Z	
🖤 WAF	Running smoothly	2 Co Vigen 1,21 * Z Aphre C4 * Z N Myou 57 * Z N Myou 57 * Z	
🗈 Files	Overview	TTV Pure-Rpd 10.47 V TTV Pure-Rpd 10.47 V	
🗄 Logs		php PHP74 V PhP74 V	
Terminal	Site	FTP 🍌 phpMyddmin 5.0 👻 💋 🁍 phpMyddmin 5.0 👻 🔽	
III Cron	0	0 🚯 DNS-Server 3 🔻 🗌	
S App Store		Mail-Server 4 V 📄 Mail-Server 4 V	
 Settings 	Software	Method: Fast Z Compiled Method: Fast Z Compiled	AI
	AD AD	S Berdia Derdia	
Log out	WAR (Downtream	Total sent Total received
+	Webshe Firewall Websh	etabletics 6.05 KB	3.71 MB 530.39 KB
	Preview Day now	Bay now Preview Bay now UVED3/S	

After the initialization of the BT panel application is complete, you can deploy applications on the dashboard.

Step 5: Deploy the BT Panel

Configuring Domain Names

If you want to use a domain name to access a website, add and resolve the domain name for the website.

- 1. If the domain name is not registered with Huawei Cloud or not hosted on Huawei Cloud DNS, the domain name cannot be resolved. Use either of the following methods to resolve the issue:
 - Contact the DNS service provider to add an A record that maps the domain name to the EIP of the FlexusL instance.
 - Use Huawei Cloud DNS servers to resolve the domain name. For details, see Migrating to Huawei Cloud DNS for Domain Name Resolution.
- 2. Configure the domain name on the application dashboard.

If you had added a domain name to a cloud server, or removed a domain name from a cloud server and then add a new one, you need to configure the domain name on the application management page so that the domain name can be used to access the website.

a. On the **Overview** page, click **Access** in the **Dashboard** field in the **Image** area.

Bit Overview Image: Cloud Servers EVS Disks Image: Cloud Backup Vaults Cloud Backup Vaults Image: Host Security Host Security	Resource Overview Obd Inductor Settle VAluee - Settle VAluee -	Process Play Usage Guidemess Plastic Warne Could Backup A Hot Security S I back claim
	Data Package 400.000 0.000 Assession 000	Network EP 100 10 HHI d* Prox Suntainen 3 Metes
	Server • Inca_rea_tite © Romag ☐ Remailion & Classy Security Grap. More ✓	Image Lean nove > without and provide a similar of the provide a simila

D NOTE

If the dashboard is not properly displayed, check the following causes:

- The port for accessing the dashboard is not allowed. Check whether the port is allowed based on **Step 2: Configure a Security Group**.
- The dashboard is being started. Try again later.
- b. Choose **Settings** > **Security**, enter a domain name for **Domain**, for example, **www.wpwebsite.com**, and click **Save**.

The BT panel uses port 8888 by default. If you want to use the domain name to access the website directly, you need to change the port number to the default HTTP or HTTPS port (80 or 443). If you do not change the port number, you need to access the website through **http://Domain-name:8888** or **https://Domain-name:8888**.

🖵 i 94.74 🚺 🚺	Global Panel Setting Security Notification Alarm
🗇 Home	
Website	Security
⊈ FTP	Panel SSL Sec After opening, it can only be accessed through the https:/Help
Databases	Paner Sal. Et Arter opening, it can only be accessed through the http://elp BasicAuth Add an exits layer of auth to effectively prevent the panel from being scanned Help
Docker	Google authentication
Monitor	Strong password Enable strong password for the panel, rules: Length 8, upper and lower case letters, numbers and characters exist
⊘ Security	Domain Save Set a domain name for the panel Note: You can only use this domain name to access the panel after setting
WAF	Authorized IP 1.1.1.1,222.1-222.2 Save Split multiple IP with () Warning: If IP is set, ONLY the authorized IP can access the panell
🗁 Files	Panel port 8888 Set Suggested port: 8888-65335, Note: For servers with security groups, please release the new port in the security group in advance.
🗟 Logs	Security Entrance / Set Panel Admin entrance. After setting, you can ONLY log in to the panel through the specified Security Entrance, e.g. /www_bt_cn
🗉 Terminal	Not logged in response 404 Set Response when not logged in and not properly entered for security entry, can be used to hide panel features
Cron	Password expire Not set Set the panel password expiration time
88 App Store	Temporary login Set Temporarily provide panel access to non-admins
Settings	

Installing an SSL Certificate for Your Website

BT panel uses HTTPS by default, and you do not need to install an SSL certificate.

Managing Software

In the software store, you can install, uninstall, and manage software.

You can search for the software by name or category. A PHP extension plugin is required to enhance PHP language functions. The following shows how to install a PHP extension:

- 1. Choose App Store in the left navigation pane and search for PHP.
- 2. Select the PHP version, click **Install** or **Buy now** in the **Operation** column of the target software and complete the installation.

Q i 94.74.	Software Store								
HomeWebsite	Search App PHP		۹						
⊈ FTP	App Sort All	Installed	Docker Deployment Tools	Plug-ins	Professional	Third-part	y Plug-in		Update App List
Databases				_					
🖝 Docker	Upgrade to Pro editio	on, all plugins, fr	ze to use! Try the Pro edition for free Click to try						
Monitor	Recently visited plugin:								
⊘ Security	Software name	Developer	Instructions	Price	Expire date	Location	Status	Display on dashboard	Operation
WAF Files	PHP code security	official	PHP kernel-level code behavior security detection, blocking intrusions through webshell, vulnerabilities and other intrusions	\$34.80	NOT activated				Buy now
Et Logs	php PHP-8.0	official	PHP is the best programming language in the world	Free			•		Setting Uninstall
Terminal	php PHP-7.4	official	PHP is the best programming language in the world	Free					Install
Cron	php PHP-7.3	official	PHP is the best programming language in the world	Free					Install
	php PHP-7.2	official	PHP is the best programming language in the world	Free					Install
88 App Store	php PHP-7.1	official	PHP is the best programming language in the world	Free					Install

Managing Files

In the **Files** menu, you can perform a range of operations on files, including copying, pasting, cutting, deleting, renaming, compressing, refreshing, or creating a file, and creating a directory for a file.

🖵 i 94.74. 11.11 0	← Root dir >		C
 G Home ⊕ Website 	Upload Remote download New Y Search Files Content Fi	avorites 🌱 Share List 🖾 Terminal 🗮 Root	t dir (51G)
	File name	PMSN/Owner Size Modific	ation time Ps
Databases	Recycle_bin	600 / root Calculate 2024/03/	20 11:30:47 PS: SWAP swap partition file set by default by aaPanel
🐲 Docker	CloudrResetPwdAgent	755 / root Calculate 2023/07/	13 13:48:43
🗵 Monitor	🗌 📜 bin -> usr/bin	755 / root Calculate 2024/05/	27 19:12:50 PS: Store binary executable file directory
☺ Security	🗌 📜 boot	755 / root Calculate 2023/07/	13 13:48:23 PS: System run directory
🛡 WAF	Credentials	755 / root Calculate 2024/05/	27 18:54:15
🗁 Files	🗌 📜 data	755 / root Calculate 2024/03/	20 11:19:24
E Logs	🗌 📜 dev	755 / root Calculate 2024/05/	27 18:57:28 PS: Storage device file directory

Managing Logs

In the **Logs** menu, logs are classified by log type. You can click the tabs to view different types of logs and clear logs.

Q 94.74.	Panel Logs	Website Logs	Logs Audit	SSH Login Logs	Soft Logs
යි Home					
Website	Operation log	gs Run logs	Cron logs		
🏛 FTP	Refresh	ear logs			
Databases	User	Operation type	Details		
🖶 Docker	administrator	Installer	Successfully added in	tallation task [php-8.0]	
🗵 Monitor	administrator	Login	Login succeed, Usern	ame: administrator, Logir	n IP: 119.8.243.70:51526
☑ Security	8vuud3ec	Login	Login succeed, Usern	ame: 8vuud3ec, Login IP:	: 175.8.120.108:34522
🖤 WAF					
🗁 Files					
E Logs					

2.2 Building a WordPress Website

Application Scenario

WordPress is an enterprise-level open-source content management system. It is usually used for enterprise website setup, cross-border e-commerce, and personal blog building. Supported By FlexusL, the WordPress application image uses Ubuntu 22.04 and is deployed using Docker. The Nginx, MySQL, phpMyAdmin, and Docker have been preconfigured in the image. You can use this application image to quickly set up a website.

Resource Planning and Costs

This practice uses the following resource planning as an example. You can adjust it as required.

Resource	Configuration	Description
Cloud server	vCPUs: 2Memory: 2 GiB	Select appropriate instance specifications based on your service requirements.
Image	WordPress	Select the WordPress application image.
Security group	 Inbound rule: Protocol: TCP Ports: 443, 80, 9000, 9001, and 3306 Source: 0.0.0.0/0 	 443: Allows HTTPS traffic to a website. 3306: Allows access to MySQL databases. 80: Specifies the internal forwarding port of application images. 9000: Allows external access to the application O&M page. 9001: Allows external access to the application dashboard.
Domain name	wpwebsite.com	 If the website is only used for personal development or testing, there is no need to add a domain name. If the website is open to the public, add and resolve a domain name for the cloud server.

Process

Procedure	Description
Step 1: Purchase a FlexusL Instance	Purchase a FlexusL instance and select the WordPress application image.
Step 2: Configure a Security Group	Add inbound security group rules to ensure that the application preinstalled in the image can be accessed.
Step 3: Reset the Password and Log In to the FlexusL Instance	A FlexusL instance does not have an initial password. After creating a FlexusL instance, set a password for the FlexusL instance before logging in to it.
Step 4: Initialize WordPress	Log in to the dashboard, set the username and password, and install WordPress. The image application dashboard needs to be initialized only when you log in for the first time.

Procedure	Description
Step 5: Operate Websites	 On the dashboard, perform the following operations: Configure domain names. Install an SSL certificate for your website. Manage appearance. Manage plug-ins. Configure SMTP. Reset a password.

Step 1: Purchase a FlexusL Instance

- 1. Log in to the FlexusLconsole and click **Buy FlexusL**.
- 2. Specify required parameters for the FlexusL instance.

lication Images	0S Images Priva	le images							
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Paramet er	Example	Description
Region	CN-Hong Kong	For low network latency and quick resource access, select the region nearest to your target users. After a FlexusL instance is created, the region cannot be changed. Exercise caution when selecting a region.
Applicati on Image	WordPress	Select the WordPress application image.

Paramet er	Example	Description
Instance Specificat ions	2 vCPUs 2 GiB memory and 60 GiB system disk	Select instance specifications as needed.
Instance Name	Wordpress- Example	Customize an instance name that is easy to identify, for example, Wordpress-Example.
(Optional) Associate d Services	 Data disk: 10 GiB Host security Cloud backup vault: 70 GiB 	You can bundle any of EVS, HSS (basic edition), and CBR to your FlexusL instances as needed and set specifications as needed.
Required Duration	1 month	The minimum duration of a purchase is one month and the maximum duration is three years. Auto-renew is enabled by default, which means the purchased FlexusL instances will be automatically renewed before they expire. If you do not enable auto-renew during the purchase process, you can still enable it later after the instances are created. For more information about auto-renewal rules, see Auto-Renewal Rules .
Quantity	1	Set the number of FlexusL instances to be purchased.

- 3. Click **Buy Now** and complete the payment as prompted.
- 4. Go back to the FlexusL console and view the purchased FlexusL instance.

Step 2: Configure a Security Group

Add inbound security group rules to ensure that the application preinstalled in the image can be accessed.

- 1. Log in to the FlexusL **console** and click a resource card to go to the instance details page.
- 2. In the navigation pane on the left, choose **Cloud Servers**. Locate the server and click its name.

	Region CN-Hong Kong 2 vCPU Region CN-Hong K
Cloud Servers	Cloud Servers
EVS Disks	
Cloud Backup Value	hcss_ecs_4d44
⊘ Host Security	ID: eb0fa7c2-76f6-4fe

3. On the **Security Groups** tab, click **Add Rule**. In the displayed dialog box, add rules displayed in the following figure and click **OK**.

The following figure only displays common rules. You can add more rules as needed.

Priori ty	Acti on	Туре	Protoco l & Port	Source	Description
1	Allo w	IPv4	TCP: 3306	0.0.0.0/0	Allows access to MySQL databases.
1	Allo w	IPv4	TCP: 80	0.0.0.0/0	Specifies the internal forwarding port of application images
1	Allo w	IPv4	TCP: 443	0.0.0.0/0	Allows HTTPS access to the application dashboard.
1	Allo w	IPv4	TCP: 9000	0.0.0.0/0	Allows external access to the application O&M page.
1	Allo w	IPv4	TCP: 9001	0.0.0/0	Allows external access to the application dashboard.

Table 2-2	Security	group	rules
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Step 3: Reset the Password and Log In to the FlexusL Instance

This section describes how to log in to a FlexusL instance. A FlexusL instance does not have an initial password. After creating a FlexusL instance, set a password for the FlexusL instance before logging in to it.

1. In the **Image** area on the **Overview** page of the FlexusL console, click **Access** to go to the application dashboard and check whether the application has been up and running. If yes, go to the next step.

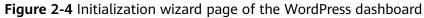
NOTICE

Wait for several minutes until the image with the pre-installed application is up and running. Then, you can perform operations such as restarting or stopping the instance, or resetting the password. Otherwise, the initial password may become invalid and you cannot log in to the application dashboard.

Figure 2-3 Entry to the application dashboard

Cloud Servers	Resource Overview	We Process Flow (1) Usage Guidelines
EVS Diaks Cloud Backup Vaults Host Security	Cloud Instance Selectic Volume Selectic IP	Elistic Volume Security Backup a Security S 1 Back Editori
	Data Package 00.0 au 0.0 au 0.0 au 0.0 au	Network EIP 160,52,880 ₫ Post Dankerin 3 Millis
	Server ■ hos_co_the 0 faming () final Law & Charge Security Group Liker ∨	Image Lean nove > webcome-op-main community press Dentoned http://webcome.community.press Webcome image approximation of Avenue

After the application is started, the initialization wizard page of the dashboard is displayed, as shown in **Figure 2-4**.



English (United States) Afrikaans মন্দ্রের্বে বারুত্রনর্ভ বির্মায় আসমীয়া আসমীয়া আসমীয়া আসমীয়া আর্মা বির্দ্রা উচ্নাব্র্বির্দ্ধের мова চিফ্রাব্র্ব্বের্দ্ধের বাংলা খন্টন্দ্র Bosanski Català Cebuano Čeština Cymraeg Dansk	Î
Deutsch (Sie) Deutsch (Schweiz, Du) Deutsch (Schweiz)	-
	Continue

NOTE

If the dashboard is not properly displayed, check the following causes:

- The port for accessing the dashboard is not allowed. Check whether the port is • allowed based on Step 2: Configure a Security Group.
- The dashboard is being started. Try again later.
- Locate the resource card and choose ******* > **Reset Password** to reset the 2. password.

A FlexusL instance does not have an initial password. Set a password for the FlexusL instance before logging in to it. For details, see **Resetting the** Password for a FlexusL Instance.

Figure 2-5 Resetting a password

FlexusL (1)
Batch operation ⑦
Running CN East-Shanghai1
1 KTRL 1 THE DOMESTIC ALL AND A DECIDENCE REPORTED FOR DECIDENCE AND A
the second of the second
In use,31 days until expirat 🔲 Remote Login 🗔 Renew …
Stop
Restart
Reset Password
Upgrade

3. Locate the target instance and click **Remote Login** and enter the username and password as prompted to log in to the FlexusL instance. The username is **root**, and the password is the one set in **2**.

Flexus L Instance (1)	
Q Search or filter by name.	
FlexusL (1)	
Batch operation ⑦	
Running CN North-Beijing4	
EIP:1 Private IP:1	
In use, 31 days until expirat 🔲 Remote Login 🗔 Renew \cdots	

Step 4: Initialize WordPress

Application images use code-based Ubuntu. They provide graphical user interfaces to make your operations easier. You need to initialize the application dashboard upon the first login. Then you can directly log in to the dashboard from the FlexusL console afterwards.

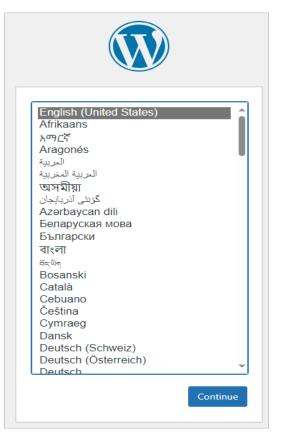
1. On the **Overview** page, click **Access** in the **Dashboard** field in the **Image** area.

Drenview Cloud Servers EVS Daka Cloud Backup Vaults Host Security	Resource Overview Image: Second Instance Image: Elastic Weather	Precess Proc. © Usage Guatemess Elefic Watere Cloud Backup a The Elefic Watere The Elefic Watere The Elefic Watere
		Network ロア 10238 (FE) グ Pron Bandwalm 3 MMPs
	hcss_tcs_115e o Running G Rende Lage & Change Security Group More	Image Lean more > vested thread genesic community (2.3 million) Image Devidention mgmillion (2.4 million) Webdie Homogony Mgl_million (2.4 million)

NOTE

If the dashboard is not properly displayed, check the following causes:

- The port for accessing the dashboard is not allowed. Check whether the port is allowed based on **Step 2: Configure a Security Group**.
- The dashboard is being started. Try again later.
- 2. Select the WordPress language and click **Continue**.



3. Set the website title, WordPress username, password, and email, and click **Install WordPress**.

WordPress does not have an initial username or password. You can customize the username and password during initialization. Keep your website administrator username, password, and email secure. If you forgot the password, you can use this email to reset the password.

Welcome	
	nous five-minute WordPress installation process! Just fill in the information below and you'l using the most extendable and powerful personal publishing platform in the world.
Information	needed
Please provide the f	following information. Do not worry, you can always change these settings later.
Site Title	WordPress-example
Username	admin
	Usernames can have only alphanumeric characters, spaces, underscores, hyphens, periods, and the @ symbol.
	periods, and the e-symbolic
Password	
Password	••••••••••••••••••••••••••••••••••••••
Password	
Password Your Email	Strong
	Strong Important: You will need this password to log in. Please store it in a secure location.
	••••••••••••••••••••••••••••••••••••

4. Enter the username and password and click **Log In**.

Success!	
WordPress has been ins	talled. Thank you, and enjoy!
Username	admin
Password	Your chosen password.
Log In	

After WordPress is initialized, you can operate the website on the application dashboard.

Step 5: Operate Websites

This section describes common WordPress operations. For more information, see **WordPress Documentation**.

Configuring Domain Names

Add and resolve a domain name for the website so that users can use the domain name to access the website.

- 1. If the domain name is not registered with Huawei Cloud or not hosted on Huawei Cloud DNS, the domain name cannot be resolved. Use either of the following methods to resolve the issue:
 - Contact the DNS service provider to add an A record that maps the domain name to the EIP of the FlexusL instance.
 - Use Huawei Cloud DNS servers to resolve the domain name. For details, see Migrating to Huawei Cloud DNS for Domain Name Resolution.
- 2. Add the domain name on the application O&M page.
 - a. In the address bar of a local browser, enter **http://***EIP***.9000** to log in to the application O&M page.

The username and password for logging in to the dashboard are the **root** user and password of the FlexusL instance. A FlexusL instance does not have an initial password. Reset the password and use it to log in to the dashboard.

- b. Choose **My Apps** and click the App icon.
- c. Choose Access and click Add Domain.

Q Search	1	• • • • × • ×
Overview		
App Store	Overview	
My Apps	Access Domain Access	~
Containers	Container Access the domain name for better application performance, https and custom configuration can click more	•
Gateway	Volumes Database	Add Domain
Git	Compose	
Navigator	Uninstall	

3. Apply for ICP licensing for the domain name.

To successfully access the server using a domain name, you must license the domain name. Domain name licensing provided by the ICP License Service is free of charge. For details, see **ICP Filing Process**.

After the domain name is licensed, you can use it to visit the website.

Installing an SSL Certificate for Your Website

If the website is only used for personal development or testing, you can apply for a free SSL certificate (provided by Let's Encrypt) whose validity period is 90 days. If your website is for commercial use, you are advised to install a commercial SSL certificate. After an SSL certificate is installed, HTTPS is used when you access the website using the domain name. The following describes the two methods for installing an SSL certificate for your website.

Preparations

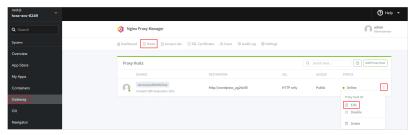
Before installing an SSL certificate, initialize the application on the management page and configure the domain name on the application O&M page.

Procedure

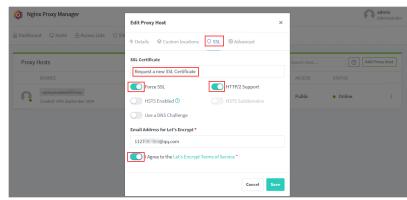
- Apply for a free SSL certificate on the application O&M page.
 - a. In the address bar of a local browser, enter **http://***EIP***.9000** to log in to the application O&M page.

The username and password for logging in to the dashboard are the **root** user and password of the FlexusL instance. A FlexusL instance does not have an initial password. Reset the password and use it to log in to the dashboard.

b. Choose **Gateway** > **Hosts** > **Proxy Hosts**, click the icon next to the domain name, and click **Edit**.



c. Select **SSL**, configure the parameters as instructed in the following figure, and click **Save**.



• Install a commercial SSL certificate.

If you have purchased and issued an SSL certificate, perform the following steps to install the certificate for the website. If you have not purchased and issued an SSL certificate, purchase and issue one on Huawei Cloud by referring to **About SCM and SSL Certificate Usage**, and then perform the following steps to install a certificate for the website.

a. In the address bar of a local browser, enter **http://***EIP***.9000** to log in to the application O&M page.

The username and password for logging in to the dashboard are the **root** user and password of the FlexusL instance. A FlexusL instance does not have an initial password. Reset the password and use it to log in to the dashboard.

b. Choose Gateway > SSL Certificates, click Add SSL Certificate, and select Custom.

Q Search	🧿 Nginx Proxy Manager		Admin Administrator
System		〇 SSL Certificates ぺ. Users 印 Audit Log ④ Settings	
Overview			
App Store	SSL Certificates	Q Search Certificate	Add SSL Certificate
My Apps			Let's Encrypt Custom
Containers		There are no SSL Certificates	
Gateway		Why don't you create one?	
Git		Add \$\$L Certificate	
Navigator			

c. Enter a name for the certificate, upload the certificate key and certificate, and click **Save**.

Add Custom Certificate	×
Δ Key files protected with a passphrase are not supported.	
Name *	
SSL Name	
Certificate Key *	
Choose file	Browse
Certificate *	
Choose file	Browse
Intermediate Certificate	
Choose file	Browse
Cancel	l Save

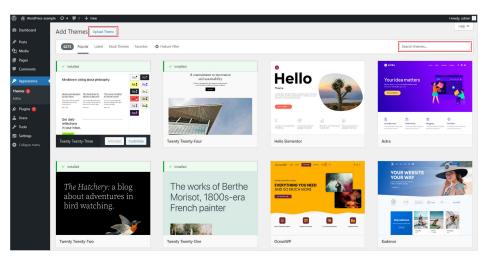
Managing Appearance

WordPress provides a wide range of themes. You can select an appropriate one for your WordPress website. You can change the WordPress theme of your website without changing the website content and structure.

1. Choose **Appearance** > **Themes** on the WordPress dashboard.

You can use the default and active themes, or add new themes.

- Select a theme from the theme collection provided by WordPress.
- Click **Upload Theme** and upload third-party themes.



- 2. After installing a theme, click **Activate**.
- 3. Choose **Pages** > **Add New Page** and use the fusion builder provided by the theme to flexibly set up a web page.

🚯 者 WordPress-exam	ole 🚭 4 📕 0 🕂 New			Howdy, admin
🚯 Dashboard	Pages Add New Page		Scree	en Options 🔻 Help 🔻
📌 Posts	All (2) Published (1) Draft (1)			Search Pages
9; Media	Bulk actions V Apply All dates V Filter			2 items
📙 Pages 🔹	☐ Title 🕈	Author	₩ ÷	Date 💂
All Pages Add New Page	Privacy Policy — Draft, Privacy Policy Page	admin	_	Last Modified 2024/03/19 at 3:34 am
Comments	Sample Page	admin	-	Published 2024/03/19 at 3:34 am
Appearance	🗋 Title 븆	Author	₽ ‡	Date 븆
🖌 Plugins 🚺				2 1000
🛓 Users	Bulk actions V Apply			2 items
۶ Tools				

Managing Plugins

WordPress provides many plugins that add more capabilities, choices, and options to your WordPress website.

• Choose Plugins > Installed Plugins.

You can view all the plugins that have been installed and their details, such as the developer and functions.

Dashboard	Plugins Add New Plugin		Screen Options 🔻 Hel
Posts	All (2) Inactive (2) Update Available	e (1) Auto-updates Disabled (2) Searc	ch installed plugins
Media	Bulk actions V Apply]	-
Pages	Plugin	Description	Automatic Updates
Comments Appearance	Akismet Anti-Spam: Spam Pr Activate Delete	otection Used by millions, Akismet is quite possibly the best way in the world to protect your blog from spam. Akismet anti spam keeps your site protected even while you sleep. To get started: activate the Akismet plugin and then go to your Akismet Settings page to set up your API key.	
Plugins 1		Version 5.1 By Automattic - Anti Spam Team View details	
alled Plugins	• There is a new version of	Akismet Anti-Spam: Spam Protection available. <u>View version 5.3.1 details or update now</u> .	
- Users Tools	Hello Dolly Activate Delete	This is not just a plugin, it symbolizes the hope and enthusiasm of an entire generation summed up in two words sung most famously by Louis Armstrong: Helio, Dolly. When activated you will randomly see a lyric from Helio, Dolly in the upper right of your admin screen on every page.	Enable auto-updates
Settings		Version 1.7.2 By Matt Mullenweg View details	
Collapse menu	Plugin	Description	Automatic Updates

- Choose **Plugins** > **Add New Plugin** and add plugins.
 - In the upper right corner, select a filter and search for plugins from the WordPress plugin library.
 - Click **Upload Plugin** and select a third-party plugin for installation.

Add Plugins Upload Plugin	Help ¥
Featured Popular Recommended Favorites	Keyword ~ Search plugins
Register extered and expand the Anticlocativy of Woodfreets. You may install placement the Description Description Characteristics Description Description Characteristics Description Descriptio	Watchings Dysch Directogry oright mem here, or updevad parkging in Jap bermate by directogry the bacteria at the top of this tages. Maintage Directogry oright members by directogry bergers by directogry by directogry bergers by directogry by directogry bergers by directogry bergers by directogry by di
★★★★ (1,158) Last Updated: 4 months ago S+ Million Active installations ✓ Compatible with your version of WordPress	★★★★☆☆(1,0.64) Last Updated: 2 months ago \$* Million Active installations ✓ Compatible with your version of VordPress VordPress VordPress VordPress

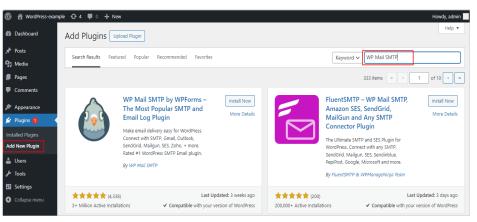
Configuring SMTP

The following uses the 163 email as an example to show how to use the WP Mail SMTP plugin to configure SMTP.

1. Choose **Settings** > **General** and set the administration email address.

WordPress-exam	ple 😳 5 📮 0 🕂 New	
Dashboard	WordPress 6.6.2 is available! Ple	An automated WordPress update has failed to complete - please attempt the update again now.
📌 Posts		
93 Media	General Settings	
📕 Pages	Settings saved.	
Comments	•	
🔊 Appearance	Site Title	WordPress-example
🖌 Plugins		
👗 Users	Tagline	Just another WordPress site
🖌 Tools		In a few words, explain what this site is about.
Settings	WordPress Address (URL)	http://www.wpwebsite.com
General		
Writing	Site Address (URL)	http://www.wpwebsite.com
Reading		Enter the same address here unless you want your site home page to be different from your WordPress installation directory.
Discussion	Administration Email Address	and AVA or
Media	Administration Email Address	example@163.com This address is used for admin purposes. If you change this, an email will be sent to your new address to confirm it. The new address will not become active until confirmed.
Permalinks		This address is used for admin purposes. If you change this, an email will be sent to your new address to confirm it. The new address will not become active until confirmed.
Privacy	Membership	Anyone can register
Collapse menu		
	New User Default Role	Subscriber v
	Site Language 🕼	English (United States)

- 2. Install the WP Mail SMTP plugin.
 - a. On the WordPress dashboard, choose **Plugins** > **Add New Plugin**.
 - b. Search for the keyword **WP Mail SMTP**. In the displayed result, click **Install Now**. After the installation is complete, click **Activate**.



3. Go back to the dashboard, configure SMTP, and click **Save Settings**. The following uses the 163 mailbox as an example to show how to configure a mailbox. If you use another mailbox, specify corresponding parameters.

Parameter	Description
From Email	The email address that emails are sent from, which is the email address that you specify during WordPress installation by default. In this example, the value is <i>example@163.com</i> . You can change the value as needed. NOTE SMTP must be configured for the email address.
From Name	The name that emails are sent from, which can be your website name. The default value is the website title that you specify during WordPress installation. In this example, the value is <i>WordPress-example</i> . You can change the value as needed.
Mailer	Select Other SMTP.
SMTP Host	SMTP host IP address. Enter <i>smtp.163.com</i> in this example.
Encryption	Select SSL .
SMTP Port	Enter <i>465</i> in this example.
Auto TLS	Enable this function.
Authenticatio n	Enable this function.
SMTP Username	Keep it the same as the From Email parameter value: <i>example@163.com</i> .
SMTP Password	Enter the authorization code obtained when configuring SMTP for the email <i>example@163.com</i> . This is not the password of the email <i>example@163.com</i> .

Resetting a Password

If you forgot the WordPress administrator password, you can reset the password via email (SMTP must have been configured for WordPress).

- Resetting a password via email
 - a. On the WordPress login page, click **Lost your password**.

Username or Email Address admin
Password
Remember Me Log In
Lost your password? ← Go to WordPress-example

b. Enter the username or email address and click **Get New Password**. Then a new password will be sent to your email.

Please enter your username or email address. You will receive an email message with instructions on how to reset your password.
Username or Email Address Get New Password
Log in ← Go to WordPress-example

c. On the dashboard, choose **Users** > **Profile**.On the displayed page, set a new password and click **Update Profile**.

🖌 Plugins 🚺	New Password	Set New Password		
占 Users				
All Users		Ø Hide Cancel		
Add New User		Strong		
Profile	Sessions	Log Out Everywhere Else		
🖌 Tools	36330113	You are only logged in at this location.		
Settings		tou are only togged in at this totation.		
🕰 WP Mail SMTP	Application Passwords			
 Collapse menu 	Application passwords allow authentication via non-interactive systems, such as XML-RPC or the REST API, without providing your actual password. Application passwords can be easily revoked. They cannot be used for traditional logins to your website.			
	The application password feature requires HTTPS, which is not enabled on this site.			
	If this is a development website you can set the environment type accordingly to enable application passwords.			
	Update Profile			

2.3 Using Matomo to Build a Website Traffic Statistics System

Application Scenario

Matomo is a powerful open-source network analysis platform that has full data ownership and ensures that the business complies with General Data Protection Regulation (GDPR) and California Consumer Privacy Act (CCPA). Supported By FlexusL, the Matomo application image uses Ubuntu 22.04 and is deployed using Docker. The Nginx, MySQL, phpMyAdmin, and Docker have been preconfigured in the image. You can use this application image to analyze website data.

Resource Planning and Costs

Resource	Configuration	Description		
Cloud server	vCPUs: 2Memory: 2 GiB	Select appropriate instance specifications based on your service requirements.		
Image	Matomo	Select the Matomo application image.		
Security group	 Inbound rule: Protocol/ Application: TCP Port: 80, 9001 Source: 0.0.0.0/0 	 80: Specifies the internal forwarding port of application images. 9000: Allows external access to the application O&M page. 9001: Allows external access to the application dashboard. 		

Process

Procedure	Description		
Step 1: Purchase a FlexusL Instance	Purchase a FlexusL instance and select the Matomo application image.		
Step 2: Configure Security Groups	Add inbound security group rules to ensure that the application preinstalled in the image can be accessed.		
Step 3: Reset the Password and Log In to the FlexusL Instance	A FlexusL instance does not have an initial password. After creating a FlexusL instance, set a password for the FlexusL instance before logging in to it.		
Step 4: Initialize Matomo	Install and initialize Matomo.		
Step 5: Use Matomo to Monitor Websites	Add tracking code to the websites you want to monitor.		

Step 1: Purchase a FlexusL Instance

- 1. Log in to the FlexusLconsole and click **Buy FlexusL**.
- 2. Specify required parameters for the FlexusL instance.

		ect the region nearest to your t	arget users.					
lication Images	OS Images Private	images						
ul Viebste setu	Development tools	Cross-border e-corret	erce Enterprise a	pplications Private cloud	disks Audio and v	ideo		
BT DT parel	WordPress	Portainer	PrestaShop	Nestcload	Щ. GELIĐ	Citop	5uperset	all Matemo
6.8.35	6.4	2.19.4	8.1.5	28.0.3	16.9.3	17.0	3.1.1	6.0.3
sas SRS	Redrine	Node ja	E Mooche	Kodbex	Joomia	Ghost	EspoCRM	
6.0.101	6.1	21	4.3.4	1.49	5.0.3	5.67	8.0	
ence Specifications	I 2 GIB	😌 2 vCPU	I 4 GIB	😵 2 vCPU	8 GIB	👳 4 vCPU	8 GIB	😻 4 vCPU 16 GIB
	2 GIB 60 GIB	_	0 G IB	System Dak	160 GIB	_	200 GIB	System Dax 320 GiB
eak Bandwidth	30 Mbps	Peak Bandwidth	30 Mbps	Peak Bandwidth	30 Mbps	Peak Bendwidth	30 Mbps	Peak Dandwidth 30 Mbps
lata Package	3,072 GB	Data Package	4,096 GB	Data Package	5,120 GB	Data Package	6,144 GB	Data Package 7,168 GB
\$9.00 USD /mo	th	\$19.00 USD /m	onth	\$39.00 USD	nonth	\$59.00 USD /m	orth	\$79.00 USD .month
excess outbound traffic	ut of the package will be b	ited by traffic and generate a	ditional costs. Learn m	ore [2]				
tional) Instance Nar								
itomo-Example)		In a batch creation, a hyphon fi	loved by an incremental nur	eber is added to the end of each inst	ance name by default.			
Data Disk (E Provides persiste		redundancy and cache accele	ation, EVS delivers high	y reliable, darable, low-latency,	stable storage.		Data Disk Cap	ectly 10585 \$1.00 USD month
	(HSS Basic Edition ssword detection and scan	n) s for vulnerabilities, brute-force	attacks, and unauthoriz	od logins.				\$1.50 USD month
Cloud Backu	p Vault (CBR) use data beckup functions.					Vault Capacity 7	DGIB Backup Policy	defaultPolicy \$2.52 USD month
uired Duration								
uired Duration								
	ns 3 months	4 months 6 months	6 months	7 months 8 months	9 months	1 year		

Paramet er	Example	Description
Region	CN-Hong Kong	For low network latency and quick resource access, select the region nearest to your target users. After a FlexusL instance is created, the region cannot be changed. Exercise caution when selecting a region.
Applicati on Image	Matomo	Select the Matomo application image.
Instance Specificat ions	2 vCPUs 2 GiB memory and 60 GiB system disk	Select instance specifications as needed.
Instance Name	Matomo- Example	Customize an instance name that is easy to identify, for example, Matomo-Example.

Paramet er	Example	Description
(Optional) Associate d Services	 Data disk: 10 GiB Host security Cloud backup vault: 70 GiB 	You can bundle any of EVS, HSS (basic edition), and CBR to your FlexusL instances as needed and set specifications as needed.
Required Duration	1 month	The minimum duration of a purchase is one month and the maximum duration is three years. Auto-renew is enabled by default, which means the purchased FlexusL instances will be automatically renewed before they expire. If you do not enable auto-renew during the purchase process, you can still enable it later after the instances are created. For more information about auto-renewal rules, see Auto-Renewal Rules .
Quantity	1	Set the number of FlexusL instances to be purchased.

- 3. Click **Buy Now** and complete the payment as prompted.
- 4. Go back to the FlexusL console and view the purchased FlexusL instance.

Step 2: Configure Security Groups

Add inbound security group rules to ensure that the application preinstalled in the image can be accessed.

- 1. Log in to the FlexusL **console** and click a resource card to go to the instance details page.
- 2. In the navigation pane on the left, choose **Cloud Servers**. Locate the server and click its name.

	Region CN-Hong Kong 2 vCPU Region CN-Hong Kong 2 vCPU
Cloud Servers	Cloud Servers
EVS Disks	
Cloud Backup V	
⊘ Host Security	hcss_ecs_4d44 ID: eb0fa7c2-76f6-4fe i • Running 2 vCPU

3. On the **Security Groups** tab, click **Add Rule**. In the displayed dialog box, add rules displayed in the following figure and click **OK**.

The following figure only displays common rules. You can add more rules as needed.

Table 2-3 Security	group rules
--------------------	-------------

Priorit y	Actio n	Туре	Protocol & Port	Source	Description
1	Allow	IPv4	TCP: 80	0.0.0/0	Specifies the internal forwarding port of application images
1	Allow	IPv4	TCP: 9001	0.0.0/0	Allows external access to the application dashboard.

Step 3: Reset the Password and Log In to the FlexusL Instance

This section describes how to log in to a FlexusL instance. A FlexusL instance does not have an initial password. After creating a FlexusL instance, set a password for the FlexusL instance before logging in to it.

1. In the **Image** area on the **Overview** page of the FlexusL console, click **Access** to go to the application dashboard and check whether the application has been up and running. If yes, go to the next step.

NOTICE

Wait for several minutes until the image with the pre-installed application is up and running. Then, you can perform operations such as restarting or stopping the instance, or resetting the password. Otherwise, the initial password may become invalid and you cannot log in to the application dashboard.

Figure 2-6 Entry to the application dashboard

After the application is started, the initialization wizard page of the dashboard is displayed, as shown in **Figure 2-7**.

Figure 2-7 Initialization wizard page of the Matomo dashboard

ee/libre analytics platform	English 🔹
1. Welcome	Welcome
2. System Check	Matomo is libre software used to analyze traffic from your visitors.
3. Database Setup	This process has 8 steps and takes around 5 minutes.
4. Creating the Tables	NEXT >
5. Superuser	
6. Set up a Website	
7. JavaScript Tracking Code	
8. Congratulations	

D NOTE

If the dashboard is not properly displayed, check the following causes:

- The port for accessing the dashboard is not allowed. Check whether the port is allowed based on **Step 2: Configure Security Groups**.
- The dashboard is being started. Try again later.
- 2. Locate the resource card and choose > **Reset Password** to reset the password.

A FlexusL instance does not have an initial password. Set a password for the FlexusL instance before logging in to it. For details, see **Resetting the Password for a FlexusL Instance**.

Figure 2-8 Resetting a password

FlexusL (1)	
Batch operation ⑦	
Running CN Ease	NEW REAL POINT OF THE OWNER F.
In use, 31 days until expirat	🖸 Remote Login 🗔 Renew \cdots
	Stop Restart Reset Password Upgrade

3. Locate the target instance and click **Remote Login** and enter the username and password as prompted to log in to the FlexusL instance.

The username is **root**, and the password is the one set in **2**.

Flexus L Instance (1)
Q Search or filter by name.
FlexusL (1)
Batch operation ⑦
Running CN North-Beijing4
EIP:1 Private IP:1
In use, 31 days until expirat 🔲 Remote Login 🗔 Renew \cdots

Step 4: Initialize Matomo

Application images use code-based Ubuntu. They provide graphical user interfaces to make your operations easier. You need to initialize the application dashboard upon the first login. Then you can directly log in to the dashboard from the FlexusL console afterwards.

1. On the **Overview** page, click **Access** in the **Dashboard** field in the **Image** area.

Bit Overview Image: Cloud Servers EVS Disks Image: Cloud Backup Vaults Cloud Backup Vaults Image: Host Security Host Security	Resource Overview Proces Proc Use	Belines
	Data Package Network 400.0cs 0.0cs 0.0cs 0.0 cs	
	Server Image Lean no • host_ion_The © Running C Renal Lage & Charge Security Group Mary Mary Mary Mary Mary Mary Mary Mary	re >

NOTE

If the dashboard is not properly displayed, check the following causes:

- The port for accessing the dashboard is not allowed. Check whether the port is allowed based on **Step 2: Configure Security Groups**.
- The dashboard is being started. Try again later.
- 2. Click **NEXT**.

Figure 2-9 Initialization wizard page of the Matomo dashboard

	English 💌
1. Welcome	Welcome
2. System Check	Matomo is libre software used to analyze traffic from your visito
3. Database Setup	This process has 8 steps and takes around 5 minutes.
4. Creating the Tables	NEXT »
5. Superuser	
6. Set up a Website	
7. JavaScript Tracking Code	
8. Congratulations	

3. Wait until Matomo completes the system check and click **NEXT**.

Matomo automatically checks whether the server meets the requirements for installing Matomo and displays the check result for each item.

4. Set up the MySQL database and click NEXT.

The MySQL database and a default database account have been preset in Matomo. The information about the default database account is automatically obtained. Retain the default settings and click **NEXT**.

- 5. After Matomo automatically creates data tables, click **NEXT**.
- 6. On the **Superuser** page, set the username, password, and email address of the Matomo administrator, and click **NEXT**.

The super user is the user that you created when you installed Matomo. Each Matomo has only one super user who has the highest permissions. Keep the username and password of the super user secure.

1. Welcome	Superuser	
2. System Check	Superuser login	
3. Database Setup		
4. Creating the Tables		
5. Superuser	Password	
6. Set up a Website		
7. JavaScript Tracking Code	Password (repeat)	
8. Congratulations		
	Email	
	 subscribe to our newsletter to receive regular information about Matomo. send me info on <u>Professional services and products</u> for Matomo 	Your email address will only be used to send you the newsletter, It is shared with Mad Mimi to do so, but the third-party provider may change. We will not share your email with anyone else or use your it for any other purpose. Unsubscribe at any time. The <u>privacy policy</u> has more info.
	NEXT »	

7. On the **Set up a Website** page, add the name and URL of the first website you want to track and analyze with Matomo and click **NEXT**.

You can add more websites to track later.

1. Welcome	Set up a Website
2. System Check	Superuser created.
3. Database Setup	
4. Creating the Tables	Please set up the first website you would like to track and analyse with Matomo:
5. Superuser	Website name
6. Set up a Website	
7. JavaScript Tracking Code	
8. Congratulations	Website URL
	https://example.org
	Website timezone
	Select a city 👻
	Ecommerce
	Not an Ecommerce site 🔹
	NEXT »
	Note: Once Matomo is fully installed, you can add more websites to track.

8. Learn about the JavaScript tracking code and click NEXT.

To track your web traffic with Matomo, you need to make sure that some extra code is added to each of your webpages. Matomo automatically generates a JavaScript tracking code. After the installation is complete, you can check the tracking code in the **Tracking Code** admin section.

- 9. After the initialization configurations are complete, click **Continue to Matomo**.
- 10. Enter the username and password of the super user and click SIGN IN.

Sign in		
B Password		
Remember Me		SIGN IN
	Lost your password?	

After the Matomo application is initialized, you can monitor websites on the application dashboard.

Step 5: Use Matomo to Monitor Websites

1. On the dashboard, click the **TRACKING CODE** tab and copy the tracking code in the **Tracking Code** area.

🛞 matomo		Dashboar	d All Websites	Tag Manager	
Q Search					
Only one last step to track your traffic with Matomo and gain v	aluable insights 🕵				
You need to add some extra code to your website or mobile app if you haven't already. Check This message will disappear as soon as some data is tracked for this website.	You need to add some extra code to your website or mobile app if you haven't already. Check your option below or send all the instructions to a team mate. This message will disappear as soon as some data is tracked for this website.				
Choose your preferred way of getting set up					
INTEGRATIONS TRACKI	NG CODE N	IATOMO TAG MANAGER		OTHER WAYS	
Coogle Analytics 3 was detected on your website. Did you know you can easily magrate your host Tracking Code Make sure this code is on every page of your website. We recommend pasting it immediately		more in this guide			
<pre>d = Manas => carapit var_pag = vankow_pag = vankow_pag D: /v tracks extlod like "setCautablements" should be called before "trackPagNing" sf pag path (f resPagNing); mean (in f resPagNing); respectively (f resPagNingNing); respectively (f resPagNing); re</pre>					

 Copy the tracking code to each page of the website you want to monitor. Matomo can collect real-time analysis data of the website with the tracking code.

NOTE

For details about how to install the Matomo tracking code, see **official documentation**.

3. Select **All Websites** to view the access to the monitored websites.

) mator	10				Dashboard All Websites Tag Manag
Q Search	2024-03-19 NEW UPDATE: MATOMO 4.16	.1 0 ♠			
	All Websites dashboard (Total: 0 visit	s, 0 pageviews, 0 actions, 0 revenue)			
	WEBSITE	▼ VISITS	PAGEVIEWS	REVENUE	EVOLUTION Visits
	MyWebsite 🖓	0	0	\$0	o 0%
	O Add a new website		1–1 of 1		
				Q	

2.4 Using Odoo to Build an ERP System

Application Scenario

Odoo is an open-source ERP/CRM software that integrates a comprehensive suite of applications for managing all aspects of your business, including procurement, inventory, finance and accounting, marketing, manufacturing, human resources management, service support, e-commerce, and website building, achieving fully automated service processes. Supported By FlexusL, the Odoo application image uses Ubuntu 22.04 and is deployed using Docker. The Nginx, pgAdmin, and Docker have been preconfigured in the image. This section describes how to use Odoo to build an ERP system.

Resource Planning and Costs

This practice uses the following resource planning as an example. You can adjust it as required.

Resource	Configuration	Description
Cloud server	vCPUs: 2Memory: 2 GiB	Select appropriate instance specifications based on your service requirements.
Image	Odoo	Select the Odoo application image.
Security group	 Inbound rule: Protocol/ Application: TCP Port: 80,9001 Source: 0.0.0.0/0 	 80: Specifies the internal forwarding port of application images. 9000: Allows external access to the application O&M page. 9001: Allows external access to the application dashboard.

Resource	Configuration	Description
Domain name	wpwebsite.com	 If the website is only used for personal development or testing, there is no need to add a domain name. If the website is open to the public, add and resolve a domain name for the cloud server.

Process

Procedure	Description
Step 1: Purchase a FlexusL Instance	Purchase a FlexusL instance and select the Odoo application image.
Step 2: Configure Security Groups	Add inbound security group rules to ensure that the application preinstalled in the image can be accessed.
Step 3: Reset the Password and Log In to the FlexusL Instance	A FlexusL instance does not have an initial password. After creating a FlexusL instance, set a password for the FlexusL instance before logging in to it.
Step 4: Initialize Odoo	Log in to Odoo and create databases.
Step 5: Deploy Odoo	 On the dashboard, perform the following operations: Configure general settings Obtain administrator information and technical support Manage databases

Step 1: Purchase a FlexusL Instance

- 1. Log in to the FlexusLconsole and click **Buy FlexusL**.
- 2. Specify required parameters for the FlexusL instance.

on Prómpapore	SHHong Kimg AP-1	ianpox TR-standul	LA-SISE Paulon	NE-Kyath LAN	NUKL CRC LA-Sar	tugo			
		elect the region nearest to yo							
	OS Images Private								
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6.8.30	1.1	2.12.4	6.1.5	28.0.3	16.0.3	17.0	3.1.1	0.0.3	
	100	Ø		Я		Ø	G		
593	Austria	NON (P	10000	NOTION NOTION	2000	oner.	Expected		
0.0.101	8.1	21	4.3.4	1.49	5.0.3	1.67			
alwy maps. The or	ected image is from Koarth	somet management, service abovy and provided by a third	support, a commerce, and party lineare that you have	t website building. Online its is staad and agreen to the Thir	proof for industrieles like man 3 party service agreements	Antonio and a second se	nece, and international trade liptace frame. The involve far	in maps will be moved by I	er third party priorities
		_		_		_		_	
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								01000000	
cost subsurd toffic	out of the package will be t	mut by some and generate	additional costs. Leave in	ee 52					
onal) instance Na									
Darph		In a balan constant, a business	followed by an incremental mar-	ider is added to the and all said	interio sere lo defect.				
Data Disk (8	V8)								
		relastancy and cache acce	ieralise, EVII delivers logit	y relative, should be later	ncy, stable shorage.		Data Dex Ca	unity 1000 1 \$60	I USD meetin
	y (HSS Besic Editio	n) 15 for wähensbillies, brate-for							
				er ogen				•	
Cloud Backs	In Vest (COR)								
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red Duratice									
onth 2 more	to Levets	America Creat	10 6-martin	7 months 6 mon	es sinores	typer			
	of Dilling have and somewall								

Paramet er	Example	Description
Region	CN-Hong Kong	For low network latency and quick resource access, select the region nearest to your target users. After a FlexusL instance is created, the region cannot be changed. Exercise caution when selecting a region.
Applicati on Image	Odoo	Select the Odoo application image.
Instance Specificat ions	2 vCPUs 2 GiB memory and 60 GiB system disk	Select instance specifications as needed.
Instance Name	Odoo- Example	Customize an instance name that is easy to identify, for example, Odoo-Example.
(Optional) Associate d Services	 Data disk: 10 GiB Host security Cloud backup vault: 70 GiB 	You can bundle any of EVS, HSS (basic edition), and CBR to your FlexusL instances as needed and set specifications as needed.

Paramet er	Example	Description
Required Duration	1 month	The minimum duration of a purchase is one month and the maximum duration is three years.
		Auto-renew is enabled by default, which means the purchased FlexusL instances will be automatically renewed before they expire. If you do not enable auto-renew during the purchase process, you can still enable it later after the instances are created. For more information about auto-renewal rules, see Auto-Renewal Rules .
Quantity	1	Set the number of FlexusL instances to be purchased.

- 3. Click **Buy Now** and complete the payment as prompted.
- 4. Go back to the FlexusL console and view the purchased FlexusL instance.

Step 2: Configure Security Groups

Add inbound security group rules to ensure that the application preinstalled in the image can be accessed.

- 1. Log in to the FlexusL **console** and click a resource card to go to the instance details page.
- 2. In the navigation pane on the left, choose **Cloud Servers**. Locate the server and click its name.



3. On the **Security Groups** tab, click **Add Rule**. In the displayed dialog box, add rules displayed in the following figure and click **OK**.

The following figure only displays common rules. You can add more rules as needed.

Priorit y	Actio n	Туре	Protocol & Port	Source	Description
1	Allow	IPv4	TCP: 80	0.0.0.0/0	Specifies the internal forwarding port of application images
1	Allow	IPv4	TCP: 9001	0.0.0/0	Allows external access to the application dashboard.

Table 2-4 Security group rules

Step 3: Reset the Password and Log In to the FlexusL Instance

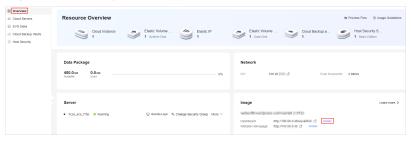
This section describes how to log in to a FlexusL instance. A FlexusL instance does not have an initial password. After creating a FlexusL instance, set a password for the FlexusL instance before logging in to it.

1. In the **Image** area on the **Overview** page of the FlexusL console, click **Access** to go to the application dashboard and check whether the application has been up and running. If yes, go to the next step.

NOTICE

Wait for several minutes until the image with the pre-installed application is up and running. Then, you can perform operations such as restarting or stopping the instance, or resetting the password. Otherwise, the initial password may become invalid and you cannot log in to the application dashboard.

Figure 2-10 Entry to the application dashboard



After the application is started, the initialization wizard page of the dashboard is displayed, as shown in **Figure 2-11**.

U	Warning, your Odoo database manager is not protected. To secure it, we have generated the following master password for it:			
6mjb-9h9u-2k78 You can change it below but be sure to remember it, it will be asked for future operations on databases.				
Master Password	example	۲		
Database Name	Database1			
Email	example@163.com			
Password	•••••	۲		
Phone number				
Language	Chinese (Simplified) /	~		
Country	China	~		
Demo data				
Create database or restore a database				

Figure 2-11 Initialization wizard page of the Odoo dashboard

NOTE

If the dashboard is not properly displayed, check the following causes:

- The port for accessing the dashboard is not allowed. Check whether the port is allowed based on **Step 2: Configure Security Groups**.
- The dashboard is being started. Try again later.
- 2. Locate the resource card and choose > **Reset Password** to reset the password.

A FlexusL instance does not have an initial password. Set a password for the FlexusL instance before logging in to it. For details, see **Resetting the Password for a FlexusL Instance**.

Figure 2-12 Resetting a password

FlexusL (1)	
Batch operation ⑦	
Running CN Ease	enverses (10.00 (Text bendrift R.
In use, 31 days until expirat	🗋 Remote Login 🗔 Renew \cdots
	Stop Restart
	Reset Password

3. Locate the target instance and click **Remote Login** and enter the username and password as prompted to log in to the FlexusL instance.

The username is **root**, and the password is the one set in **2**.

Flexus L Instance (1)
Q Search or filter by name.
FlexusL (1) Batch operation ⑦
Running CN North-Beijing4
EIP:1 Private IP:1
In use, 31 days until expirat 🔲 Remote Login 🗔 Renew \cdots

Step 4: Initialize Odoo

Application images use code-based Ubuntu. They provide graphical user interfaces to make your operations easier. You need to initialize the application dashboard upon the first login. Then you can directly log in to the dashboard from the FlexusL console afterwards.

1. On the **Overview** page, click **Access** in the **Dashboard** field in the **Image** area.

Bit Drawview Image: Cloud Servers EVS Disks Image: Cloud Backup Vaults Cloud Backup Vaults Image: Host Security Host Security	Resource Overview Image: Count Instance Image: Count Instan	Process Ferr © Usage Guademess Elect: Visione Topo Doub Backing a For Security 5 1 Reac calors
		Network ログ 100.02 世紀 グ Point Elandonistic 3.5 601 5
	toss_eds_tise © Running Q Rendu Lapin & Change Security Group. More ~	Inge Lan not 5 Held State Can not 6 Held State Can

NOTE

If the dashboard is not properly displayed, check the following causes:

- The port for accessing the dashboard is not allowed. Check whether the port is allowed based on **Step 2: Configure Security Groups**.
- The dashboard is being started. Try again later.
- 2. Configure the parameters and click **Create database**.

If you have had a **backup** database on your local device, click **or restore a database**.

Figure 2-13 Initialization wizard page of the Odoo dashboard

Warning, your Odoo database manager is not protected. To secure it, we have generated the following master password for it:				
	6mjb-9h9u-2k78			
You can change it below but be sure to remember it, it will be asked for future operations on databases.				
Master Password	example	۲		
Database Name Database1				
Email example@163.com				
Password		۲		
Phone number				
Language	Chinese (Simplified) /	~		
Country China ~				
Demo data				
Create database or restore a database				

Parameter	Description	
Master Password	The system automatically generates a database master password. You can change it but be sure to remember it. NOTE The database master password will be asked for future operations on databases, so please keep it safe.	
Database Name	Specifies a database name.	
Email/ Password	Specifies the email address and password for the administrator to log in to Odoo. Please keep it safe.	
Phone number	Specifies the telephone number of the administrator.	
Language	Specifies the language you want to use on the management console.	
Country	Specifies the country or region where you are located.	
Demo data	After this option is selected, data samples are automatically generated for the created database.	

Table 2-5 Parameter descriptions

3. Enter the email address and password, and click **Log in**.

pps		Q 🔻 Ap	ps × Search	-		1-55/55 < >
APPS		Sales		Restaurant Restaurant extensions for the Point of	•	Involcing
All				Sale	- 5	
Official Apps		Activate Learn More	e	Activate Learn More		Activate Learn More
Industries		CBM		MBP II		Website
CATEGORIES		Track leads and close opportunities		Work Orders, Planning, Routing		Enterprise website builder
All		Activate Learn More		Learn More Upgrade		Activate Learn More
Sales						
Services		Manage your stock and logistics		Accounting Accounting, Taxes, Budgets, Assets		Knowledge Centralize, manage, share and grow
Accounting	2	Activate Learn More		Learn More Upgrade		your knowledge library
Inventory	4					Ceanninore
Manufacturing	5	Purchase		Point of Sale		Project
Website	s 👘	Purchase orders, tenders and agreements		User-friendly PoS interface for shops and restaurants		Organize and plan your projects
Marketing	7	Activate Learn Mon	e	Activate Learn More	-	Activate Learn More
Human Resources	9	eCommerce		Manufacturing		Email Marketing
Productivity	· · ·	Sell your products online		Manufacturing Orders & BOMs		Design, send and track emails
Administration	2	Activate Learn More	D	Activate Learn More		Activate Learn More
		Timesheets		Expenses		Studio
		Track time & costs		Submit, validate and reinvoice employee expenses	- <u>- ×</u>	Create and Customize Applications
		Learn More Upgrade	•	Activate Learn More		Learn More Upgrade
		Time Off		Recruitment	1 4	Field Service
		Allocate PTOs and follow leaves		Track your recruitment pipeline		Schedule and track onsite operations,

After the Odoo application is initialized, you can deploy your applications on the dashboard.

Step 5: Deploy Odoo

This section describes some basic operations of Odoo. For more information, see **Odoo Documentation**.

General Settings

- 1. Click in the upper left corner and choose **Settings**.
- 2. Add a user.

- a. Click **New** in the upper left corner.
- b. After the user is added, click the username to view or modify the username, email address, access permissions, and preferences.

The email address must be unique. If you enter a name that already exists, the message indicating the operation cannot be completed because you cannot have two users with the same login will be displayed.

₩ Settings Users & Companies				
Users		T Internal Users × Search		
N	NEW 🔺		🛪 Filters 🛭 🕏 Group By 🔺 Favorites	
	Name	Login	Language	
	Marc Demo	demo	English (US)	
	Mitchell Admin	example@163.com	English (US)	

- 3. Add a company.
 - a. Choose **User & Companies** > **Companies**, click **New**, and enter the company name and general information.

Settings	Users & Companies	
Companies NEW 📥	Users Companies	
Company Name Partner		Partner
PourCompany YourCompany		

b. Click **New** in the upper right corner.

After the company is added, you can click the company name to view or modify the basic information about the company.

Obtaining Administrator Information and Technical Support

Click the administrator avatar in the upper right corner.

- Click **Documentation** to obtain the official Odoo guide.
- Click **Support** to go to the Odoo official website and learn more about Odoo products.
- Press **Shortcuts CTRL+K** to set the shortcut key.
- Click Preferences and set administrator preferences and account security information.
- Click **My Odoo.com account** to go to the Odoo login page.

Mitchell Admin			
Documentation			
Support			
Shortcuts CTRL+K			
Preferences			
My Odoo.com account			
Log out			

Managing Databases

On the Odoo login page, click **Manage Databases** to access the Odoo database manager.

눱 Your logo		
imail		
Email		
Password		
Password		
Log	in	
Manage Databases	Powered by Odoo	

NOTE

You can access the Odoo login page:

- From the FlexusL management console. For details, see 1.
- By selecting the administrator avatar in the upper right corner and clicking **Log out**, if you have logged in to Odoo.
- (Optional) Set Master Password

If you did not change the database master password when **initialing Odoo**, you can reset a master password that is easy to remember. The master password is required when you create, delete, dump, or restore databases. Please keep it safe.

a. Click Set Master Password to set a new master password.



- b. Click **Continue** to save the new master password.
- Create Database

You can add multiple companies on Odoo. Each database means a company. Multiple companies can use Odoo with different accounts and do not interfere with each other.

a. Click Create Database and set basic information.

	Create Databa	se	×	
Databa	Master Password	•••••	Delete	
Crea	Database Name	Database2	word	
	Email	example@163.com		
	Password	•••••	۲	
	Phone number			
	Language	English (US)	~	
	Country	Hong Kong		
	Demo data			
	To enhance your experie services. See our Privacy	nce, some data may be sent to Odoo c Policy.	online	
		Cont	inue	

- b. Click **Continue**.
- c. Click **Select**, select **Database2**, and enter the email and password.

a Your logo		
Database		
Database2	Select 🛢	
Email		
example@163.com		
Password		
Password		
Log ir	1	
Manage Databases	Powered by Odoo	

- d. Click **Log in** to log in to the management page of Database2.
- Backup Database
 - a. On the database management page, click **Backup**.
 - b. On the **Backup Database** page, enter the master password, select a backup format, and click **Backup**.

After the backup is completed, the system will automatically download the database backup file.

	Backup Database		×	
Databa	Master Password	•••••	۲	Delete
Databa	Database Name	Database2		Delete
test	Backup Format	zip (includes filestore)	~	Delete
Crea			Backup	word

• Duplicate Database

The data of a company can be duplicated and used as the data of a new enterprise.

- a. On the database management page, click **Duplicate**.
- b. Enter the master password, set a new database name, and click **Continue**.

After the duplication is successful, the duplicated database will be displayed in the database management column.

Restore Database

After a database is deleted, it can be restored using backup data.

- a. Click Restore Database.
- b. Enter the master password, select the backup file, set the database name, and click **Continue**.

After the restoration is successful, the restored database will be displayed in the database management column.

2.5 Using Moodle to Build an Online Learning System

Application Scenario

Moodle is an open-source online education system for global users and can be used for online learning. The Moodle application image uses the Ubuntu 22.04 and is deployed using Docker. The Moodle application and the required operating environment have been preconfigured. This section describes how to install and deploy a Moodle application.

Resource Planning and Costs

Resource	Configuration	Description	
Cloud server	vCPUs: 2Memory: 2 GiB	Select appropriate instance specifications based on your service requirements.	
Image	Moodle	Select the Moodle application image.	
Security group	 Inbound rule: Protocol/ Application: TCP Port: 80, 443, 9001, 9000 Source: 0.0.0.0/0 	 80: Specifies the internal forwarding port of an application. 443: Allows HTTPS traffic to FlexusL instances. 9001: Allows external access to the application dashboard. 9000: Allows external access to the application O&M page. 	

Process

Procedure	Description
Step 1: Purchase FlexusL Instances	Purchase a FlexusL instance and select the Moodle application image.
Step 2: Configure Security Groups	Add inbound security group rules to allow traffic from ports 80, 443, 9000, and 9001 to access the application.
Step 3: Reset a Password	A FlexusL instance does not have an initial password. After creating a FlexusL instance, set a password for the FlexusL instance.
Step 4: Initialize Moodle.	The image application dashboard needs to be initialized only when you log in for the first time.
Step 5: Deploy an Application	Deploy an application on the visualization application management page.

Step 1: Purchase FlexusL Instances

- 1. Log in to the FlexusLconsole and click **Buy FlexusL**.
- 2. Specify required parameters for the FlexusL instance.

gion									
	N-Hong Kong AP-Ba	angkok TR-Istanbul	ME-Riyadh Lu	-Sao Paulo1 LA-Mexico	City2 LA-Santiago				
low network latency and	quick resource access, sel	ect the region nearest to your t	arget users.						
plication Images	OS Images Private	Images							
All Website setu			erce Enterprise a	oplications Private cloud	tisks Audio and vi	deo			
_	-	-	_	_	_	_	_	_	
BT BT panel	WordPress	Portainer	PrestaShop	Nextcloud	₩ GiLab	Cdoo	Superset	.th Matomo	
6.8.35	6.4	2.19.4	8.1.5	28.0.3	16.9.3	17.0	3.1.1	5.0.3	
SAS	œ,	Ø	A	м		O	E		
SRS	Redmine	Node.js	Moodle	Kodbox	Lionia	Ghost	EspoCRM		
6.0.101	5.1	21	4.3.4	1.49	5.0.3	5.67	8.0		
	ubuntu 22.04 server 64b								
				other scenarios. It is the preferrer read and agree to the third-part					ne third-party provide
ance Specifications									
🗢 2 vCPU	2 GIB	😌 2 vCPU	4 GiB	😌 2 vCPU	8 GiB	🐡 4 vCPU	J 8 GiB	👳 4 vCP	U 16 GiB
System Disk	60 GIB	System Disk	80 GIB	System Disk	160 GIB	System Disk	240 GIB	System Disk	320 GIB
	30 Mbps 3.072 GB		30 Mbps 4.096 GB		00 Mbps 5,120 GB	Peak Bandwidth Data Package	30 Mbps 6.144 GB	Peak Bandwidth Data Package	30 Mbps 7,168 GB
\$9.00 USD /mor	nh	\$19.00 USD (m	onth	\$39.00 USD /m	onth	\$59.00 USD	month	\$79.00 USD	month
excess outbound traffic	out of the package will be b	elled by traffic and generate ac	iditional costs. Learn m	ane 🖸					
tional) Instance Nar									
loodle-Example	ine .	in a batch counting in bushes to	found by on increased in such	iber is added to the end of each insta	no anno lu defud				
code-cxample		in a sach deason, a rippier is	IOWED DY AN INCENTIAL NU	IDAT IS RODED TO THE KIND OF BRICH PISSA	ce name by denius.				
Data Disk (E									
Provides persiste	nt block storage. With data	redundancy and cache accele	ration, EVS delivers high	y reliable, durable, low-latency, s	table storage.		Data Disk Ca	ipecity 10GiB \$1.0	IO USD /month
	y (HSS Basic Edition	n) is for vulnerabilities, brute-force	allacks and unauthoriz	ed logins				\$1.5	0 USD /month
Claud Basta									
 Cloud Backu Provides easy-to 	use data backup functions.					Vault Capacity	70GiB Backup Policy	defaultPolicy \$2.5	2 USD /month
and Departure									
quired Duration									
1 month 2 mont	ths 3 months	4 months 5 months	6 months	7 months 8 months	9 months	1 year			
Auto-renew Learn abo	ut billing rules and renewal	duration							
antity									

Paramet er	Example	Description
Region	CN-Hong Kong	For low network latency and quick resource access, select the region nearest to your target users. After a FlexusL instance is created, the region cannot be changed. Exercise caution when selecting a region.
Applicati on Image	Moodle	Select the Moodle application image.
Instance Specificat ions	2 vCPUs 2 GiB System disk 60 GiB	Select instance specifications as needed.
Instance Name	Moodle- Example	Customize an instance name that is easy to identify, for example, Moodle-Example.

Paramet er	Example	Description
(Optional) Associate d Service	 Data Disk: 10 GiB Host Security Cloud Backup Vault: 70 GiB 	You can bundle any of EVS, HSS (basic edition), and CBR to your FlexusL instances as needed and set specifications as needed.
Required Duration	1 month	The minimum duration of a purchase is one month and the maximum duration is three years.
		Auto-renew is enabled by default, which means the purchased FlexusL instances will be automatically renewed before they expire. If you do not enable auto-renew during the purchase process, you can still enable it later after the instances are created. For more information about auto-renewal rules, see Auto-Renewal Rules .
Quantity	1	Set the number of FlexusL instances to be purchased.

- 3. Click **Buy Now** and complete the payment as prompted.
- 4. Go back to the FlexusL console and view the purchased FlexusL instance.

Step 2: Configure Security Groups

Add inbound security group rules to allow traffic from ports 80, 443, 9000, and 9001 to access the application.

- 1. Log in to the FlexusL **console** and click a resource card to go to the instance details page.
- 2. In the navigation pane on the left, choose **Cloud Servers**. Locate the server and click its name.

ð	Region CN-Hong Kong 2 vCPU I I Instance ID 664c5e hcss_ecs_4d44 • Running
Overview Cloud Servers	Cloud Servers
EVS Disks	
Cloud Backup V	
⊘ Host Security	hcss_ecs_4d44 ID: eb0fa7c2-76f6-4fe

3. On the **Security Groups** tab, click **Add Rule**. In the displayed dialog box, add rules displayed in the following figure and click **OK**.

The following figure only displays common rules. You can add more rules as needed.



Table 2-6 Security group rules

Prio rity	Acti on	Тур e	Protoc ol & Port	Sour ce	Description
1	Allo w	IPv 4	ТСР: 80	0.0.0. 0/0	Specifies the internal forwarding port of an application.
1	Allo w	IPv 4	TCP: 443	0.0.0. 0/0	Allows HTTPS traffic to FlexusL instances.
1	Allo w	IPv 4	TCP: 9000	0.0.0. 0/0	Allows external access to the application O&M page.
1	Allo w	IPv 4	TCP: 9001	0.0.0. 0/0	Allows external access to the application dashboard.

Step 3: Reset a Password

A FlexusL instance does not have an initial password. After creating a FlexusL instance, set a password for it. The password of the FlexusL instance is also used for **logging in to the O&M page of the application**.

1. In the **Image** area on the **Overview** page of the FlexusL console, click **Access** to go to the application dashboard and check whether the application has been up and running. If yes, go to the next step.

NOTICE

Wait for several minutes until the image with the pre-installed application is up and running. Then, you can perform operations such as restarting or stopping the instance, or resetting the password. Otherwise, the initial password may become invalid and you cannot log in to the application dashboard.

Figure 2-14 Entry to the application dashboard

Bit Overview Cloud Servers EVS Diaks Cloud Backup Vaults O Host Security	Resource Overview Proces Pow Busic Value Oud Issue 1 Sec Data Busic Value 1 Sec Data Dat
	Data Package Network 400.0 cas Annatis 0.0 cas basel 0% CP 100.02 [H] (7) Peak Dandwardt S 100/15
	Server Image Learn nor > • Kos_co_the 0 Running C Hennis Law & Change Security Oracy More More Among

After the application is started, the initialization wizard page of the dashboard is displayed, as shown in **Figure 2-15**.

Figure 2-15 Initialization wizard page of the Moodle dashboard

New Site	Home			Log in
Ne	ew Site			
INC	ew Site			

D NOTE

If the dashboard is not properly displayed, check the following causes:

- The port for accessing the dashboard is not allowed. Check whether the port is allowed based on **Step 2: Configure Security Groups**.
- The dashboard is being started. Try again later.
- 2. Locate the resource card and choose > **Reset Password** to reset the password.

For details, see Resetting the Password for a FlexusL Instance.

Figure 2-16 Resetting a password

FlexusL (1)	
Batch operation ⑦	
Running CN East-S	1874 (1974) (1974) (1974)
In use, 31 days until expirat	Remote Login 🗔 Renew …
	Stop Restart Reset Password Upgrade

NOTE

The password for logging in to the FlexusL instance is also the password for logging in to the O&M page of the application.

Step 4: Initialize Moodle.

Application images use code-based Ubuntu. They provide graphical user interfaces to make your operations easier. You need to initialize the application dashboard upon the first login. Then you can directly log in to the dashboard from the FlexusL console afterwards.

1. In the address bar of a local browser, enter **http://***<Server-EIP***>:9000** to log in to the application O&M page.

The initial username and password for logging in to the application dashboard are stored on the O&M page of the application. You need to log in to the O&M page first to obtain the username and password. The username for logging in to the O&M page is **root**, and the login password is the one reset in **2**.

NOTE

For details about the FlexusL instances, O&M page, and dashboard, see **What Is the Relationship Among FlexusL Instances, the Dashboard, and the O&M Page?**

2. On the **My Apps** page, click the application icon, choose **Access**, and click **Initial Account** to view the username and password for logging in to the application management page.

The initial password is a randomly generated strong password. After the application is initialized, change the password on the dashboard for easy

management. If the password is changed, the initial password will be invalid. Remember the new password.

hcss-ecs-e139					
Q Search					
System					
Overview					
App Store		Domain Access			
	No	domain name can temporarily access	the application by IP + port		
Containers		Frontend:	- CE - BOO		
Gateway					
Navigator		tial Account a application is pre-configured with an	administrator account, please change the administrator	password in	nmediately. The initial credentials are:
Terminal	r i i i i i i i i i i i i i i i i i i i			_	
Tools		Administrator UserName	root		
Services				_	
Logs		Administrator Password		۲	

3. In the **Image** area on the **Overview** page of the FlexusL console, click **Access** to go to the application dashboard.

Figure 2-17 Entry to the application dashboard

Bit Diverview Image: Cloud Servers Image: EVS Datas Image: Cloud Backup Vaults Image: Host Security	Resource Overview	Process Fev 8 Usage Galdelines Fields: Walnes Cloud Backlap A Point Security S 1 Data Data 1 Data Data
	Data Package 400.0 as 0.0 as 0	Network π 100 32 3411 σf Prior function 3 Mars
	Server • hos_es_itis @ Runneg □ Runne Lipe & Charge Securly Group. Hore ∨	Image Lean nore > website/website/website/community press Common Comboard Mpcrass as assignating of access Website/workpaper Mpcrass assignating of access

D NOTE

If the dashboard is not properly displayed, check the following causes:

- The port for accessing the dashboard is not allowed. Check whether the port is allowed based on **Step 2: Configure Security Groups**.
- The dashboard is being started. Try again later.
- 4. Click **Log in** in the upper right corner.

Figure 2-18 Initialization wizard page of the Moodle dashboard

Log	in
site	
5	Site

5. Enter the initial username and password obtained in 2 and click Log in.

Log in to New Site
admin
Log in
Lost password?
Some courses may allow guest access
Access as a guest
Cookies notice

NOTE

If a message is displayed indicating that the username or password you entered is invalid when you attempt to log in to the application dashboard, refer to Why Can't I Access the Dashboard of the Application Pre-installed in the Application Image After Entering the Initial Username and Password?

After the Moodle application is initialized, you can deploy your applications on the dashboard.

Step 5: Deploy an Application

For details about how to deploy a Moodle application, see **Moodle Service Support**.

2.6 Using Joomla to Build a Content Management System

Application Scenario

Joomla is a website content management system (CMS) for enterprise websites and e-commerce. It is one of the world's three most popular open source CMSs. The Joomla application image uses the Ubuntu 22.04 and is deployed using Docker. The Joomla application and the required operating environment have been preconfigured. This section describes how to use Joomla to build a CMS.

Resource Planning and Costs

Resource	Configuration	Description
Cloud server	vCPUs: 2Memory: 2 GiB	In this example, the minimum configuration is selected. You can select the instance specifications based on your service requirements.
Image	Joomla	Select the Joomla application image.
Security group	 Inbound rule: Protocol/ Application: TCP Port: 80, 443, 9000, or 9001 Source: 0.0.0.0/0 	 80: Specifies the internal forwarding port of an application. 443: Allows HTTPS traffic to FlexusL instances. 9001: Allows external access to the application dashboard. 9000: Allows external access to the application O&M page.

Process

Procedure	Description	
Step 1: Purchase FlexusL Instances	Purchase a FlexusL instance and select the Joomla application image.	
Step 2: Configure Security Groups	Add inbound security group rules to allow traffic from ports 80, 443, 9000, and 9001 to access the application.	
Step 3: Reset a Password	A FlexusL instance does not have an initial password. After creating a FlexusL instance, set a password for the FlexusL instance.	
Step 4: Initialize Joomla	The image application dashboard needs to be initialized only when you log in for the first time.	
Step 5: Build a CMS	This step uses how to install a website template and publish an article as an example to build a CMS with Joomla.	

Step 1: Purchase FlexusL Instances

- 1. Log in to the FlexusLconsole and click **Buy FlexusL**.
- 2. Specify required parameters for the FlexusL instance.

Region CNI Hway King AP-Despise Till Istandur IME:Rhyseb LA-Sec Paulo1 LA-Mexice Chy2 LA-Sectings Fair United Mattery and gask resource access, which the region meaned by port target ears. LA-Sec Paulo1 LA-Mexice Chy2 LA-Sectings										
Application Images	OS Images Private Im	iages								
All Website set	Development tools	Cross-border e-cor	imerce Enterprise ap	oplications Private clou	d disks Audio and vid	80				
BT BT panel	WordPress	alla Matomo	Noodle	Joomla	Ghost					
6.8.35	6.4	5.0.3	4.3.4	5.0.3	5.67					
Joomla is a website conten		scenarios such as enterpr					he world, with high customizabil Nace Terms. The invoice for this			×
Instance Specification	5									
🗢 2 vCPL	I 2 GIB	🗢 2 vCPl	J 4 GiB	🐡 2 vCPU	8 GiB	👳 4 vCP	U 8 GiB	🤍 4 vCP	U 16 GiB	
System Disk Peak Bandwidth	60 GIB 30 Mbos	System Disk Prok Bandwidth	80 GiB	System Disk Peak Bandwidth	160 GIB 30 Mbos	System Disk Prok Bandwidth	240 GIB 30 Mbps	System Disk Prak Bandwidth	320 GiB 30 Mbps	
Data Package	3,072 GB	Data Package	4,096 GB	Data Package	5,120 GB	Data Package	6,144 GB	Data Package	7,168 GB	
\$9.00 USD im	anth	\$19.00 USD	month	\$39.00 USD n	nonth	\$59.00 USD	Imonth	\$79.00 USD	/month	
The excess outbound traffi	c out of the package will be bile	ed by traffic and generate	additional costs. Learn mo	re 🖸						
(Optional) Instance Na		in a batch creation, a hypher	followed by an incremental num	ber is added to the end of each inst	ance name by default.					
Joons Eampe In stats only, it gives Means by an overset of anther is able to be end of each indexes save by default										
	Data Disk (EVS) Provide president block storage, With data redundancy and cache acceleration, EVS delivers lightly initiale, datable, tor-latency, stable storage. Data Disk Capacity 1000 S1.00 USD recom v									
Host Security (HSS Basic Edition) Provides wear passed detation and scars for varienzabilities, trute force attacks, and unauthorized togen. \$1.50 USD morth										
Cloud Backup Vault (CBR) Peedes capit-back das backup Incloses Vault Capacity 7008 Backup Pacity actual/Pacity \$2.52 USD mome v										
Required Duration										
1 month 2 mo	nths 3 months	4 months 5 mont	ts 6 months	7 months 8 months	9 months	l year				
Auto-senew Learn ab	out billing putes and represed du	ration								
Quantity										
- 1 +										

Paramet er	Example	Description
Region	CN-Hong Kong	For low network latency and quick resource access, select the region nearest to your target users. After a FlexusL instance is created, the region cannot be changed. Exercise caution when selecting a region.
Applicati on Image	Joomla	Select the Joomla application image.
Instance Specificat ions	2 vCPUs 2 GiB System disk 60 GiB	Select instance specifications as needed.
Instance Name	Joomla- Example	Customize an instance name that is easy to identify, for example, Joomla-Example.

Paramet er	Example	Description
(Optional) Associate d Service	 Data Disk: 10 GiB Host Security Cloud Backup Vault: 70 GiB 	You can bundle any of EVS, HSS (basic edition), and CBR to your FlexusL instances as needed and set specifications as needed.
Required Duration	1 month	The minimum duration of a purchase is one month and the maximum duration is three years.
		Auto-renew is enabled by default, which means the purchased FlexusL instances will be automatically renewed before they expire. If you do not enable auto-renew during the purchase process, you can still enable it later after the instances are created. For more information about auto-renewal rules, see Auto-Renewal Rules .
Quantity	1	Set the number of FlexusL instances to be purchased.

- 3. Click **Buy Now** and complete the payment as prompted.
- 4. Go back to the FlexusL console and view the purchased FlexusL instance.

Step 2: Configure Security Groups

Add inbound security group rules to allow traffic from ports 80, 443, 9000, and 9001 to access the application.

- 1. Log in to the FlexusL **console** and click a resource card to go to the instance details page.
- 2. In the navigation pane on the left, choose **Cloud Servers**. Locate the server and click its name.

		-	ong Kong 2 vCPU	المعاملة الم
	Overview Cloud Servers]	Cloud Servers	S .
	EVS Disks			
0	Cloud Backup Va	aults		
\oslash	Host Security			hcss_ecs_4d44 ID: eb0fa7c2-76f6-4fe □ • Running 2 vCPU ■ • • • • • • • • • • • • • • • • • • •

3. On the **Security Groups** tab, click **Add Rule**. In the displayed dialog box, add rules displayed in the following figure and click **OK**.

The following figure only displays common rules. You can add more rules as needed.



 Table 2-7 Security group rules

Prio rity	Acti on	Typ e	Protoc ol & Port	Sour ce	Description
1	Allo w	IPv 4	TCP: 80	0.0.0. 0/0	Specifies the internal forwarding port of an application.
1	Allo w	IPv 4	TCP: 443	0.0.0. 0/0	Allows HTTPS traffic to FlexusL instances.
1	Allo w	IPv 4	TCP: 9000	0.0.0. 0/0	Allows external access to the application O&M page.
1	Allo w	IPv 4	TCP: 9001	0.0.0. 0/0	Allows external access to the application dashboard.

Step 3: Reset a Password

A FlexusL instance does not have an initial password. After creating a FlexusL instance, set a password for the FlexusL instance. The password of the FlexusL instance is also used for logging in to the O&M page of the application.

1. In the **Image** area on the **Overview** page of the FlexusL console, click **Access** to go to the application dashboard and check whether the application has been up and running. If yes, go to the next step.

NOTICE

Wait for several minutes until the image with the pre-installed application is up and running. Then, you can perform operations such as restarting or stopping the instance, or resetting the password. Otherwise, the initial password may become invalid and you cannot log in to the application dashboard.

Figure 2-19 Entry to the application dashboard

Overview Cloud Servers	Resource Overview @ Usage Guidelines
EVS Diaks Cloud Backup Vaults Host Security	Cloud Induncy S Elastic Warms S Elastic IP Elastic Values S Cloud Buckup a S Hot Shourly S 1 Insec Elastic
	Data Package Network 400.0 cs. used 00-a pt to 50 (H) (I) 7 million double 3 Million
	Server Lean nor > • Nos, co, file @ Running © Running & C, Dange Security (Stop: More *) Image Lean nor > • Nos, co, file @ Running © Running & C, Dange Security (Stop: More *) Destroard Margine Security (Stop: More *)

After the application is started, the initialization wizard page of the dashboard is displayed, as shown in **Figure 2-20**.

🐹 Joomla!'		My site
My site Joomla Administrator Login	Username 1 Password	
Need Support?	Log in	
You can find help here: ☑ Joomlal Support Forum ☑ Joomlal Documentation ☑ Joomlal News	☑ Forgot your login details?	

Figure 2-20 Initialization wizard page of the Joomla dashboard

If the dashboard is not properly displayed, check the following causes:

- The port for accessing the dashboard is not allowed. Check whether the port is allowed based on **Step 2: Configure Security Groups**.
- The dashboard is being started. Try again later.

2. Locate the resource card and choose > **Reset Password** to reset the password.

For details, see Resetting the Password for a FlexusL Instance.

Figure 2-21 Resetting a password

FlexusL (1)
Batch operation ⑦
Running CN East-Shanghai1
C Tool Team
1 CTU I THE DOMESTIC CONTRACTOR OF THE DESIGNATION IN THE DESIGN AND INCOMESTIC CONTRACTOR IN THE DESIGN AND INCOMESTIC CONTRACTOR IN THE DESIGN AND INFORMATION AN
In use, 31 days until expirat 🔲 Remote Login 🗔 Renew
Stop
Restart
Reset Password
Upgrade

NOTE

The password for logging in to the FlexusL instance is also the password for logging in to the O&M page of the application.

Step 4: Initialize Joomla

Application images use code-based Ubuntu. They provide graphical user interfaces to make your operations easier. You need to initialize the application dashboard upon the first login. Then you can directly log in to the dashboard from the FlexusL console afterwards.

1. In the address bar of a local browser, enter **http://***<Server-EIP***>:9000** to log in to the application O&M page.

The initial username and password for logging in to the application dashboard are stored on the O&M page of the application. You need to log in to the O&M page first to obtain the username and password. The username for logging in to the O&M page is **root**, and the login password is the password reset in **2**.

NOTE

For details about the FlexusL instances, O&M page, and dashboard, see **What Is the Relationship Among FlexusL Instances, the Dashboard, and the O&M Page?** 2. On the **My Apps** page, click the application icon, choose **Access**, and click **Initial Account** to view the username and password for logging in to the application management page.

The initial password is a randomly generated strong password. After the application is initialized, change the password on the dashboard for easy management. If the password is changed, the initial password will be invalid. Remember the new password.

root@ hcss-ecs-e139	
Q Search	-
System	
Overview	
App Store	No Domain Access
My Apps	No domain name can temporarily access the application by IP + port
Containers	Frontend: Insul Mind 201 111 1001
Gateway	
Git	
Navigator	Initial Account This application is pre-configured with an administrator account, please change the administrator password immediately. The initial credentials are
Terminal	
Tools	Administrator root UserName
Services	Administrator 🛛 🐨
Logs	Password

3. In the **Image** area on the **Overview** page of the FlexusL console, click **Access** to go to the application dashboard.

Figure 2-22 Entry to the application dashboard

88 Overview		
Cloud Servers	Resource Overview	@ Process Flow
EVS Disks	Soud Instance Elastic Volume 🧆 Elastic IP	Elastic Volume S Cloud Backup a S Host Security S
Cloud Backup Vaults	Cloud Instance Selastic Volume Selastic IP	Elastic Volume Cloud Backup a Set Host Security S 1 Data Disk 1 Basic Edition
Host Security		
	Data Package	Network
	400.0 ga 0.0 ga	
	400.0 CB 0.0 CB 0%	EIP 100.93 C Peak Bandwidth 3 MbBs
	Server	Image Learn more >
	hcss ecs fife Running Q Remote Legin G, Change Security Group. More	website-contracted press
	- non-country of names of name of the second or of here -	Deshtoard http://
		Website Homepage http://www.electron.com

D NOTE

If the dashboard is not properly displayed, check the following causes:

- The port for accessing the dashboard is not allowed. Check whether the port is allowed based on **Step 2: Configure Security Groups**.
- The dashboard is being started. Try again later.
- 4. Enter the dashboard username and password obtained in 2 and click Log in.

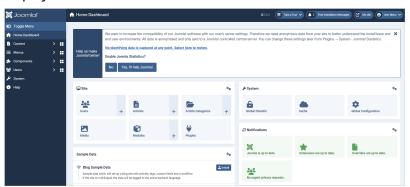
	1.5	
🐹 Joomla!"		My site
My site Joomla Administrator Login	Username I Password	
Need Support?	Log in	
You can find help here: C Joomlal Support Forum C Joomlal Documentation C Joomlal News	C Forgot your login details?	

Figure 2-23 Initialization wizard page of the Joomla dashboard

NOTE

If a message is displayed indicating that the username or password you entered is invalid when you attempt to log in to the application dashboard, refer to Why Can't I Access the Dashboard of the Application Pre-installed in the Application Image After Entering the Initial Username and Password?

- 5. Check the application dashboard and preview the page of Joomla CMS.
 - After logging in to the dashboard, information similar to the following is displayed.



 Enter http://<Server-EIP>:9001 in the address bar of the local browser to preview the page of Joomla CMS.

The initialized application page is blank.

CASSIOPEIA					
You are here: Home	Main Menu				
Home	Home				
	Login Form				
	Username				
	Password 🥥				
	Remember Me				
	Log in				
	Forgot your password? Forgot your username?				

After the Joomla application is initialized, you can deploy your applications on the dashboard.

Step 4: Build a CMS

This step uses how to install a website template and publish an article as an example to build a CMS with Joomla.

- 1. Install a blog template for the website.
 - a. On the default home dashboard of the management page, select **Blog Sample Data** in **Sample Data** and click **Install** to install the blog template.

🕱 Joomla!'		🟫 Home Dashboard						N 5.0.3 🔁 1	rice a Tour 🗸 🌲 2 Post Installation Messag	es 🕑 My site 😝 Us	er Mena 🗸
Toggle Menu		-						_			
Home Dashboard		🖵 Site					••	✤ System			••
E Menus				6				6		\$	
🛧 Components		Users	+	Articles	+	Article Categories	+	Global Checkin	Cache	Global Configuration	
👻 Users 🎤 System	•					¥		2 Notifications			•••
Help		Media		Modules	+	Plugins					
		Sample Data					• ₆	Joomla is up to date.	Extensions are up to date.	Overrides are up to date.	
				site with articles, tags, custom fr be tagged to the active backend		a workflow.	∆ irstal	No urgent privacy requests.			
		Multilingual Sample Sample data which will a Before launching, make a data has been installed.	et up a mul	lingual site. e at least 2 languages installed v	ith their (Content Languages and that r	2 install	Logged-in Users			••
		cata nas been installed.						Name	Location	Date	
							12 Manage	Super User	Administration	2024-05-3 07:27	n

b. In an address bar of a local browser, enter **http://***<Server-EIP***>:9001** to access the blog page.

CASSIOPEI	A		
Blog Help 🔻 Login	Sample Layouts 👻 Typography	Search	Q Search
	Welcome to Joomla on Cassic		
		pelai	
	You have chosen one of the most powerful CMS Systems i	n the world.	
	Cassiopeia is the multi-purpose frontend template for Jo	omla 5.	
	Typography »		
and the second		Che Man	

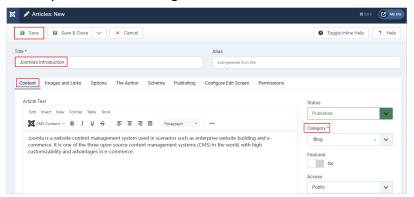
The website content has been templated.

- 2. Publish an article on the website.
 - a. Choose **Content** > **Articles** in the navigation pane of the management page and click **New** to create an article.

🐹 Joomla!"	d Articles
Toggle Menu	+ New Actions V
Home Dashboard	
🖹 Content 🗸 🖬	
Articles +	
Categories +	
Featured Articles	☐
Fields	Typography
Field Groups	Alias: typography Category: <u>Typography</u>
Media	New feature: Workflows
Site Modules +	Alias: new-feature-workflows Category: <u>Help</u>

b. Edit the article title and content in **Title** and **Content**, set the following parameters, and click **Save**.

Categorize articles in **Category**, for example, Blog. You can also set the access permissions and tags of the article.



c. Click **Blog** on the blog page. Then you can view the article published on the website.



2.7 Using Ghost to Build a Personal Blog

Application Scenario

Ghost is a powerful app for professional publishers to create, share, and grow a business around their content. It comes with modern tools to build a website, publish content, send newsletters, and offer paid subscriptions to members. The Ghost application image uses Ubuntu 22.04 and is deployed using Docker. The Ghost application and the required operating environment have been preconfigured in the Ghost application image to build a personal blog.

Resource Planning and Costs

Resource	Configuration	Description
Cloud server	vCPUs: 2Memory: 2 GiB	Select appropriate instance specifications based on your service requirements.
Image	Ghost	Select the Ghost application image.
Security group	 Inbound rule: Protocol/ Application: TCP Port: 80, 443, 9000, or 9001 Source: 0.0.0.0/0 	 80: Specifies the internal forwarding port of an application. 443: Allows HTTPS traffic to FlexusL instances. 9001: Allows external access to the application dashboard. 9000: Allows external access to the application O&M page.

Process

Procedure	Description
Step 1: Purchase FlexusL Instances	Purchase a FlexusL instance and select the Ghost application image.
Step 2: Configure Security Groups	Add inbound security group rules to allow traffic from ports 80, 443, 9000, and 9001 to access the application.
Step 3: Reset a Password	A FlexusL instance does not have an initial password. After creating a FlexusL instance, set a password for the FlexusL instance.
Step 4: Initialize Ghost	The image application dashboard needs to be initialized only when you log in for the first time.
Step 5: Publish a Post	Use posting as an example to describe how to use the Ghost application image to build a personal blog.

Step 1: Purchase FlexusL Instances

- 1. Log in to the FlexusLconsole and click **Buy FlexusL**.
- 2. Specify required parameters for the FlexusL instance.

Region AP-Singapore CN-Horg Ko For low network latency and quick reso			A-Sao Paulo1 LA-Mexico	City2 LA-Santiago				
Application Images OS Imag	ges Private Images							
Al Website setup	Development tools Cross-b	order e-commerce Enterprise	applications Private cloud	disks Audio and video				
BT BT panel W	Grof Press Mator		Joomla	Ghost				
6.8.35	6.4 5.0.3	43.4	5.0.3	5.67				
This image is based on the Ubuntu 2 Ghost is a platform for blog creation an around its content. KooGallery image The selected ima	nd paid reading, which is used in so							
Instance Specifications								
🗢 2 vCPU 2 Gi	в 😝 2	2 vCPU 4 GIB	😌 2 vCPU	8 GIB	🐡 4 vCPL	I 8 GIB	👳 4 vCPU	16 GIB
System Disk 60 Gill	System Dis			160 GIB	System Disk	240 GIB	System Disk	320 GIB
Peak Bandwidth 30 Mbps Data Package 3,072 GB	Peak Band Data Packa			30 Mbps 5,120 GB	Peak Bandwidth Data Package	30 Mbps 6,144 GB	Peak Bandwidth Data Package	30 Mbps 7,168 GB
\$9.00 USD inorth	\$19.00	USD .month	\$39.00 USD /m	onth	\$59.00 USD /	month	\$79.00 USD /	nonth
The excess outbound traffic out of the	package will be billed by traffic and	generate additional costs. Learn n	ore 🖸					
(Optional) Instance Name								
Ghost-Example	In a batch creat	on, a hyphon followed by an incremental nu	mber is added to the end of each insta	nce name by default.				
Data Disk (EVS) Provides persistent block st	lorage. With data redundancy and	cache acceleration, EVS delivers high	ly reliable, durable, low-latency, s	stable storage.		Data Disk Capac	ity 10GIB \$1.00	USD imonth v
Host Security (HSS Provides weak password de		is, brute-force attacks, and unauthoria	ed logins.				\$1.50	USD month
Cloud Backup Vault Provides easy-to-use data t					Vault Capacity	70GiB Backup Policy o	defaultPolicy \$2.52	USD imonth V
Required Duration								
1 month 2 months	3 months 4 months	5 months 6 months	7 months 8 months	9 months 1 ye	sar			
Auto-renew Learn about billing ru	lar to interval duration							
Quantity	and the remember condition							
- 1 +								

Paramet er	Example	Description
Region	CN-Hong Kong	For low network latency and quick resource access, select the region nearest to your target users. After a FlexusL instance is created, the region cannot be changed. Exercise caution when selecting a region.
Applicati on Image	Ghost	Select the Ghost application image.
Instance Specificat ions	2 vCPUs 2 GiB System disk 60 GiB	Select instance specifications as needed.
Instance Name	Ghost- Example	Customize an instance name that is easy to identify, for example, Ghost-Example.

Paramet er	Example	Description
(Optional) Associate d Service	 Data Disk: 10 GiB Host Security Cloud Backup Vault: 70 GiB 	You can bundle any of EVS, HSS (basic edition), and CBR to your FlexusL instances as needed and set specifications as needed.
Required Duration	1 month	The minimum duration of a purchase is one month and the maximum duration is three years.
		Auto-renew is enabled by default, which means the purchased FlexusL instances will be automatically renewed before they expire. If you do not enable auto-renew during the purchase process, you can still enable it later after the instances are created. For more information about auto-renewal rules, see Auto-Renewal Rules .
Quantity	1	Set the number of FlexusL instances to be purchased.

- 3. Click **Buy Now** and complete the payment as prompted.
- 4. Go back to the FlexusL console and view the purchased FlexusL instance.

Step 2: Configure Security Groups

Add inbound security group rules to allow traffic from ports 80, 443, 9000, and 9001 to access the application.

- 1. Log in to the FlexusL **console** and click a resource card to go to the instance details page.
- 2. In the navigation pane on the left, choose **Cloud Servers**. Locate the server and click its name.

	Region CN-Hong Kong 2 vCPU Region CN-Hong K
Cloud Servers	Cloud Servers
EVS Disks	
Cloud Backup Value	hcss_ecs_4d44
⊘ Host Security	ID: eb0fa7c2-76f6-4fe

3. On the **Security Groups** tab, click **Add Rule**. In the displayed dialog box, add rules displayed in the following figure and click **OK**.

The following figure only displays common rules. You can add more rules as needed.

	Add	Inbound Rule	earn now to add a rui	e 🗠			
Basic Information	•	f you select IP address fr	er Source , you can en	ter multiple IP addresses. Each IP a	idress represents a different securi	ty group rule.	
Network Interface 192.168.1 (primary)	Securit	y Group sg-defau	it-smb				
	Prior	ity Action	Туре	Protocol & Port	Source	Description	Operation
	1	Allow	Y IPV4	80	0.0.0/0		M Delete
Rules Learn how to add a rule 🗹			V IPv4	TCP (Custom ports)	IP address V	i	
Security Group sg-default-smb	1	Allow	IPV4	443	0.0.0.00		🛱 Delete
	- I (Allow	V IPv4	TCP (Custom ports)	IP address V		10 Delete
Add Rule Delete Q	Searc	Allow	· 1994	9000	0.0.0/0		B Delete
Priority ()	Act 1	Allow	V IPv4	TCP (Custom ports)	IP address V]	B Delete
		Allow		9001	0.0.0/0		E Delete
1	Deny Ado	I Rule					
□ 1	Denv						

Table 2-8 Security group rules

Prio rity	Acti on	Тур е	Protoc ol & Port	Sour ce	Description
1	Allo w	IPv 4	TCP: 80	0.0.0. 0/0	Specifies the internal forwarding port of an application.
1	Allo w	IPv 4	TCP: 443	0.0.0. 0/0	Allows HTTPS traffic to FlexusL instances.
1	Allo w	IPv 4	TCP: 9000	0.0.0. 0/0	Allows external access to the application O&M page.
1	Allo w	IPv 4	TCP: 9001	0.0.0. 0/0	Allows external access to the application dashboard.

Step 3: Reset a Password

A FlexusL instance does not have an initial password. After creating a FlexusL instance, set a password for the FlexusL instance.

1. In the **Image** area on the **Overview** page of the FlexusL console, click **Access** to go to the application dashboard and check whether the application has been up and running. If yes, go to the next step.

NOTICE

Wait for several minutes until the image with the pre-installed application is up and running. Then, you can perform operations such as restarting or stopping the instance, or resetting the password. Otherwise, the initial password may become invalid and you cannot log in to the application dashboard.

Figure 2-24 Entry to the application dashboard

B: Overview Cloud Servers EVS Daks Cloud Backup Vauits Host Security	Resource Overview ® noces For ® loage duations
	Data Package Network 400.0 cm 0.0 cm 00 cm 00 cm 00 cm 00 cm 00 cm 33665
	Server Lean nor > • hos_cs_s_tite @ Running @ Jannin Lean & Charge Security Oring More > Image Lean nor

After the application is started, the initialization wizard page of the dashboard is displayed, as shown in **Figure 2-25**.

	\bigcirc	
Wel	come to G	Shost.
	orld, people have sta with Ghost. Today, v	
Site title		
My site		
Full name		
Jamie Larson		
Email address		
jamie@example.c	om	
Password		
••••		
Crea	te account & start pub	lishing →

Figure 2-25 Initialization wizard page of the Gost dashboard

NOTE

If the dashboard is not properly displayed, check the following causes:

- The port for accessing the dashboard is not allowed. Check whether the port is allowed based on **Step 2: Configure Security Groups**.
- The dashboard is being started. Try again later.
- 2. In the resource card, choose > **Reset Password**, and perform operations as prompted.

For details, see **Resetting the Password for a FlexusL Instance**.

Figure 2-26 Resetting a password

FlexusL (1)	
Batch operation ⑦	
Running CN East-S	unange (10.00 (Part Sector) 1.
In use, 31 days until expirat) Remote Login 🗔 Renew …
	Stop Restart Reset Password Upgrade

Step 4: Initialize Ghost

Application images use code-based Ubuntu. They provide graphical user interfaces to make your operations easier. You need to initialize the application dashboard upon the first login. Then you can directly log in to the dashboard from the FlexusL console afterwards.

1. In the **Image** area on the **Overview** page of the FlexusL console, click **Access** to go to the application dashboard.

Figure 2-27 Entry to the application dashboard

Cloud Servers Cloud Backup Vaults Cloud Backup Vaults Host Security	Resource Overview © Process Fax © Lange Dublishing Image: Second State of the Second State of
	Data Pachage Network 40.0 data 0.0 cm 0.0 cm 0.0 cm 0.0 cm 0.0 cm 100 k0 g/ml () Prove thereboxed 3.0 dets
	Server Lease nors > • kos, ex, file @ Running C Annya & Charge Security Once More > • kos, ex, file @ Running C Annya & Charge Security Once More > • Backward More + • Backward M

D NOTE

If the dashboard is not properly displayed, check the following causes:

- The port for accessing the dashboard is not allowed. Check whether the port is allowed based on **Step 2: Configure Security Groups**.
- The dashboard is being started. Try again later.
- 2. Set the website title, username, email address, and password, and click **Create account & start publishing** to create an account and deploy the application.

The email address and password are credentials for logging in to the dashboard.

Figure 2-28 Initialization wizard page of the Gost dashboard

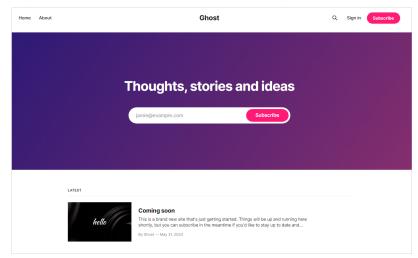
\bigcirc
Welcome to Ghost.
All over the world, people have started 3,000,000+ incredible sites with Ghost. Today, we're starting yours.
Site title
My site
Full name
Jamie Larson
Email address
jamie@example.com
Password
••••••
Create account & start publishing $ ightarrow$

- 3. Check the dashboard and web portal of the application.
 - After logging in to the dashboard, information similar to the following is displayed.

O My site	۹	Dashboard		
Dashboard				
View site				
Explore				
🖻 Posts	+			
D Pages				
🛇 Tags				
R Members	0			
			~7	
			Welcome to your Dashboard	
			You'll find member analytics here once	
			someone signs up.	
			Add or import members	
•				
2 ~ @				

In an address box of a local browser, enter http://<Server-EIP>:9001 to access the web portal.

If you have added a domain name, you can also use **http://** <wpwebsite.com>:9001 to access the web portal.



After the Ghost application is initialized, you can publish your posts on the dashboard.

Step 5: Publish a Post

1. On the dashboard, click the setting icon and click **Navigation** to add a menu.

	My site	Q	Settings	About Ghos
\bigcirc	Dashboard		WEBSITE	
	View site			
0	Explore		Basic publication details and site 🥙 Customize your site and manage 🤎 Se	vigation it up primary and secondary anus
ß	Posts	+		
	Drafts		Staff Announcement bar Highlight important updates or	
	Scheduled		collaborators collaborators offers	
	Published			
0	Pages			
0	Tags		MEMBERS	
R	Members	1		alytics cide what data you collect
:	× [۵ 🜑	ADVANCED	

2. Edit the menu name and URL and click **Save**.

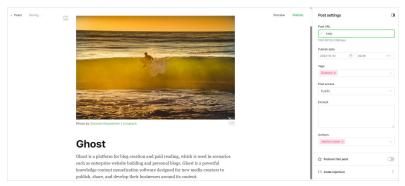
	s > Navigation vigation		Save
PRIMAR	Y NAVIGATION		
	Home	http://60.204.	±
	About	http://60.204.	Û
	help	http://60.204. /help/	

3. Select **Tags** and click **New tag** to set a tag type for the blog post.

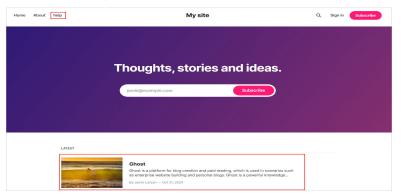
	My site	Q	Tags	Public tags	Internal tags	New tag
	Dashboard		TAG	SLUG	NO. OF POSTS	
⊕	View site Explore		Culture	culture	0 posts	>
Ľ	Posts	+	Science	science	0 posts	>
	Drafts Scheduled Published					
	Pages Tags Members					

4. Choose **Posts**, click **New post** in the upper right corner, and click **Publish**.

After editing the image, title, and content for a post, you can add tags to the post for classification.



5. In an address bar of a local browser, enter **http://***<Server-EIP***>:9001** to view the created **help** menu and released documents.



2.8 Using EspoCRM to Build a Content Management System

Application Scenario

EspoCRM an open source customer relationship management (CRM) platform accessible on PCs, mobile phones, and tablets. It provides functions including sales automation, marketing, sales process, documentations, products, contracts, knowledge base, and workflow. The EspoCRM application image uses the Ubuntu 22.04 and is deployed using Docker. The EspoCRM application and the required operating environment have been preconfigured. This section describes how to use EspoCRM to build a CMS.

Resource Planning and Costs

Resource	Configuration	Description		
Cloud server	vCPUs: 2Memory: 2 GiB	Select appropriate instance specifications based on your service requirements.		

Resource	Configuration	Description
Image	EspoCRM	Select the EspoCRM application image.
Security group	 Inbound rule: Protocol/ Application: TCP Port: 80, 443, 9000, or 9001 Source: 0.0.0.0/0 	 80: Specifies the internal forwarding port of an application. 443: Allows HTTPS traffic to FlexusL instances. 9001: Allows external access to the application dashboard. 9000: Allows external access to the application O&M page.

Process

Procedure	Description
Step 1: Purchase FlexusL Instances	Purchase a FlexusL instance and select the EspoCRM application image.
Step 2: Configure Security Groups	Add inbound security group rules to allow traffic from ports 80, 443, 9000, and 9001 to access the application.
Step 3: Reset a Password	A FlexusL instance does not have an initial password. After creating a FlexusL instance, set a password for the FlexusL instance.
Step 4: Initialize EspoCRM	The image application dashboard needs to be initialized only when you log in for the first time.

Step 1: Purchase FlexusL Instances

- 1. Log in to the FlexusLconsole and click **Buy FlexusL**.
- 2. Specify required parameters for the FlexusL instance.

AP-Sergapore Chilling song AP-Sergapore Tit-Idambul ME-Sergant LA-Ser Paulet LA-Mexics C/p2 LA-Serlags For two redexis litercy and quak resource access, seed the region nearest to your target sons. Environment								
Application Images OS Images Private	Images							
All Website setup Development tools	Cross-border e-commerce Enterprise ap	plications Private cloud disks Audio and vi	deo					
Cideo Superset	Redmine ExpoCRM							
17.0 0.1.1	5.1 8.0							
	em that helps streamline enterprise efficiency. It is a web-	based CRM solution that is lightning fast and easy to custo read and agree to the third-party service agreements Mark		s image will be issued by the third-party provider.				
Instance Specifications								
2 vCPU 2 GIB	💎 2 vCPU 4 GIB	😵 2 vCPU 8 GIB	👳 4 vCPU 8 GIB	🦁 4 vCPU 16 GIB				
System Disk 60 GIB	System Disk 80 GIB	System Disk 160 GIB	System Disk 240 GIB	System Disk 320 GIB				
Peak Bandwidth 30 Mbps Data Package 3,072 GB	Peak Bandwidth 30 Mbps Data Package 4,096 GB	Peak Bendwidth 30 Mbps Data Package 6,120 GB	Peak Bandwidth 30 Mbps Data Package 6,144 GB	Peak Bandwidth 30 Mbps Data Package 7,168 GB				
\$9.00 USD month	\$19.00 USD month	\$39.00 USD /month	\$59.00 USD .month	\$79.00 USD month				
The excess outbound traffic out of the package will be b	iled by traffic and generate additional costs. Learn more	e 🖸						
(Optional) Instance Name								
EspoCRIM-Example	in a batch creation, a hyphen followed by an incremental numb	ter is added to the end of each instance name by default.						
Data Disk (EVS) Provides pensistent block storage. With data	redundancy and cache acceleration, EVS delivers highly	reliable, durable, low-latency, stable storage.	Data Disk Capa	oty 10GiB \$1.00 USD month v				
Hast Casurity (UCC Basis Edition)	a)							
Host Security (HSS Basic Edition) Provide west passed decision ad scars to valenability, both force attacks, and unsufrance topins. S1.50 USD more								
Cloud Backup Veult (CBR) Provelse sery-from distal backup Insteas. Veult Cigardy 7008 Backup Priory advant/heavy \$2.52 USD morm v								
Required Duration								
1 month 2 months 3 months								
A shore the common of the shore of the								
Auto-enter Learn acout dang tues and referenal outdoon Quantity								

Paramet er	Example	Description
Region	CN-Hong Kong	For low network latency and quick resource access, select the region nearest to your target users. After a FlexusL instance is created, the region cannot be changed. Exercise caution when selecting a region.
Applicati on Image	EspoCRM	Select the EspoCRM application image.
Instance Specificat ions	2 vCPUs 2 GiB System disk 60 GiB	Select instance specifications as needed.
Instance Name	EspoCRM- Example	Customize an instance name that is easy to identify, for example, EspoCRM-Example.

Paramet er	Example	Description
(Optional) Associate d Service	 Data Disk: 10 GiB Host Security Cloud Backup Vault: 70 GiB 	You can bundle any of EVS, HSS (basic edition), and CBR to your FlexusL instances as needed and set specifications as needed.
Required Duration	1 month	The minimum duration of a purchase is one month and the maximum duration is three years.
		Auto-renew is enabled by default, which means the purchased FlexusL instances will be automatically renewed before they expire. If you do not enable auto-renew during the purchase process, you can still enable it later after the instances are created. For more information about auto-renewal rules, see Auto-Renewal Rules .
Quantity	1	Set the number of FlexusL instances to be purchased.

- 3. Click **Buy Now** and complete the payment as prompted.
- 4. Go back to the FlexusL console and view the purchased FlexusL instance.

Step 2: Configure Security Groups

Add inbound security group rules to allow traffic from ports 80, 443, 9000, and 9001 to access the application.

- 1. Log in to the FlexusL **console** and click a resource card to go to the instance details page.
- 2. In the navigation pane on the left, choose **Cloud Servers**. Locate the server and click its name.

Ø	Region CN-Hong Kong 2 vCPU hcss_ecs_4d44 • Running
Cloud Servers	Cloud Servers
EVS Disks	
Cloud Backup V	
⊘ Host Security	hcss_ecs_4d44 ID: eb0fa7c2-76f6-4fe □ ● Running 2 vCPU □ ●

3. On the **Security Groups** tab, click **Add Rule**. In the displayed dialog box, add rules displayed in the following figure and click **OK**.

The following figure only displays common rules. You can add more rules as needed.



Table 2-9 Security group rules

Prio rity	Acti on	Тур e	Protoc ol & Port	Sour ce	Description
1	Allo w	IPv 4	ТСР: 80	0.0.0. 0/0	Specifies the internal forwarding port of an application.
1	Allo w	IPv 4	TCP: 443	0.0.0. 0/0	Allows HTTPS traffic to FlexusL instances.
1	Allo w	IPv 4	TCP: 9000	0.0.0. 0/0	Allows external access to the application O&M page.
1	Allo w	IPv 4	TCP: 9001	0.0.0. 0/0	Allows external access to the application dashboard.

Step 3: Reset a Password

A FlexusL instance does not have an initial password. After creating a FlexusL instance, set a password for the FlexusL instance. The password of the FlexusL instance is also used for **logging in to the O&M page of the application**.

1. In the **Image** area on the **Overview** page of the FlexusL console, click **Access** to go to the application dashboard and check whether the application has been up and running. If yes, go to the next step.

NOTICE

Wait for several minutes until the image with the pre-installed application is up and running. Then, you can perform operations such as restarting or stopping the instance, or resetting the password. Otherwise, the initial password may become invalid and you cannot log in to the application dashboard.

Figure 2-29 Entry to the application dashboard

Cloud Bervers EVS Daks Cloud Backup Vaults Host Security	Resource Overview Is house New Electronic Advances Could instance Electronic Volume Second Redup a. House Second Ys. 1 Second Redup Advances 1 System Cold 1 Second Ys. 1 Second Redup a. House Electronic Advances
	Data Package Network 400.0 cs. 0.0 cs. 0% EIP 100.05 (\$HE 0\$) Point Exclosion 3 Maris Analam 0% EIP 100.05 (\$HE 0\$) Point Exclosion 3 Maris
	Server Image Lean more > Image

After the application is started, the initialization wizard page of the dashboard is displayed, as shown in **Figure 2-30**.

Espo CRif	
Username	
admin	
Password	
•••••	
Log in	

Figure 2-30 Initialization wizard page of the EspoCRM dashboard

If the dashboard is not properly displayed, check the following causes:

- The port for accessing the dashboard is not allowed. Check whether the port is allowed based on **Step 2: Configure Security Groups**.
- The dashboard is being started. Try again later.
- Locate the resource card and choose > Reset Password to reset the password.

For details, see Resetting the Password for a FlexusL Instance.

Figure 2-31 Resetting a password

FlexusL (1)	
Batch operation ⑦	
Running CN East-S	NAMES OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTIONO
In use, 31 days until expirat	Remote Login 🗔 Renew …
	Stop Restart Reset Password Upgrade

NOTE

The password for logging in to the FlexusL instance is also the password for logging in to the O&M page of the application.

Step 4: Initialize EspoCRM

Application images use code-based Ubuntu. They provide graphical user interfaces to make your operations easier. You need to initialize the application dashboard upon the first login. Then you can directly log in to the dashboard from the FlexusL console afterwards.

1. In the address bar of a local browser, enter **http://***<Server-EIP***>:9000** to log in to the application O&M page.

The initial username and password for logging in to the application dashboard are stored on the O&M page of the application. You need to log in to the O&M page first to obtain the username and password. The username for logging in to the O&M page is **root**, and the login password is the password reset in **2**.

For details about the FlexusL instances, O&M page, and dashboard, see **What Is the Relationship Among FlexusL Instances, the Dashboard, and the O&M Page?**

2. On the **My Apps** page, click the application icon, choose **Access**, and click **Initial Account** to view the username and password for logging in to the application management page.

The initial password is a randomly generated strong password. After the application is initialized, change the password on the dashboard for easy

management. If the password is changed, the initial password will be invalid. Remember the new password.

hcss-ecs-e139		
Q Search		
System		
Overview		
App Store	No Domain Access	
My Apps	No domain neme can temporarily access the application by IP + port.	
Containers	Frontend: Imperiable	
Gateway		
Navigator	Initial Account This application is pre-configured with an administrator account, please change the administrator password immediately. The in	nitial credentials are:
Terminal		
Tools	Administrator root UserName	
Services		
Logs	Administrator 🗠 🐨 Password	

3. In the **Image** area on the **Overview** page of the FlexusL console, click **Access** to go to the application dashboard.

Figure 2-32 Entry to the application dashboard

Cloud Servers EVS Daks Cloud Backup Vaults Host Security	Resource Overview	The Process Flow I Usage Guidelines
	Data Package Network 400.0cs 0.0cs 0	Peak Bandwith 3 Mote
	Server Image • hol, cot, file @ funning @ funner laps & Charge Security Group More Image • cot, cot, file @ funning @ funner laps & Charge Security Group More Image • cot, cot, file @ funning @ funner laps & Charge Security Group More Image • cot, cot, file @ funning @ funner laps & Charge Security Group Image • cot, cot, file @ funning @ funning laps & Charge Security Group Image	Legni more >

D NOTE

If the dashboard is not properly displayed, check the following causes:

- The port for accessing the dashboard is not allowed. Check whether the port is allowed based on **Step 2: Configure Security Groups**.
- The dashboard is being started. Try again later.
- 4. On the displayed login page, enter the initial username and password obtained in **2** and click **Log in**.

Figure 2-33 Initialization wizard page of the EspoCRM dashboard

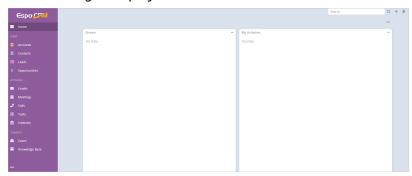
Espo CRM	
Username	
admin	
Password	
••••••	
Log in	

NOTE

If a message is displayed indicating that the username or password you entered is invalid when you attempt to log in to the application dashboard, refer to Why Can't I Access the Dashboard of the Application Pre-installed in the Application Image After Entering the Initial Username and Password?

5. Check the application dashboard.

After logging in to the application management page, information similar to the following is displayed.



After the EspoCRM application is initialized, you can deploy your applications on the dashboard.

3 Setting Up the Development Environment

3.1 Using Portainer to Deploy a MySQL Container

Application Scenario

Portainer is a graphical tool for Docker management. It offers a range of functions such as status display, quick deployment of application templates, basic operations on Docker (containers, images, networks, and database logical volumes), log display, container console operations, centralized management and operations of Swarm clusters and services, and user login management and control. Supported By FlexusL, the Portainer application image uses Ubuntu 22.04 and is deployed using Docker. The Docker and Portainer have been preconfigured in the image. You can use this application image to visualize Docker management.

Resource Planning and Costs

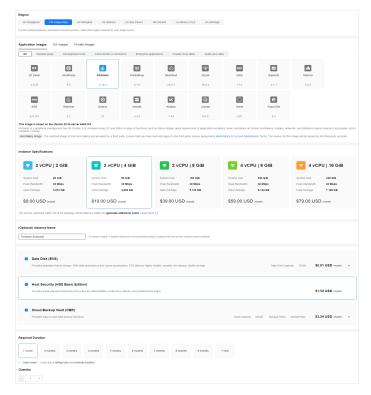
Resource	Configuration	Description
Cloud server	vCPUs: 2Memory: 4 GiB	Select appropriate instance specifications based on your service requirements.
Image	Portainer	Select the Portainer application image.
Security group	Inbound rule: • Protocol/ Application: TCP • Port: 80,9001,3306 • Source: 0.0.0.0/0	 3306: Allows access to MySQL databases. 80: Specifies the internal forwarding port of application images. 9000: Allows external access to the application O&M page. 9001: Allows external access to the application dashboard.

Process

Procedure	Description
Step 1: Purchase a FlexusL Instance	Purchase a FlexusL instance and select the Portainer application image.
Step 2: Configure Security Groups	Add inbound security group rules to ensure that the application preinstalled in the image can be accessed.
Step 3: Reset the Password and Log In to the FlexusL Instance	A FlexusL instance does not have an initial password. After creating a FlexusL instance, set a password for the FlexusL instance before logging in to it.
Step 4: Initialize Portainer	Log in to the dashboard and install and initialize Portainer.
Step 5: Use Portainer to Deploy a MySQL Container	Use Portainer to visualize Docker management (using MySQL container as an example)

Step 1: Purchase a FlexusL Instance

- 1. Log in to the FlexusLconsole and click **Buy FlexusL**.
- 2. Specify required parameters for the FlexusL instance.



Paramet er	Example	Description
Region	CN-Hong Kong	For low network latency and quick resource access, select the region nearest to your target users. After a FlexusL instance is created, the region cannot be changed. Exercise caution when selecting a region.
Applicati on Image	Portainer	Select the Portainer application image.
Instance Specificat ions	2 vCPUs 4 GiB memory and 80 GiB system disk	Select instance specifications as needed.
Instance Name	Portainer- Example	Customize an instance name that is easy to identify, for example, Portainer-Example.
(Optional) Associate d Services	 Data disk: 10 GiB Host security Cloud backup vault: 90 GiB 	You can bundle any of EVS, HSS (basic edition), and CBR to your FlexusL instances as needed and set specifications as needed.
Required Duration	1 month	The minimum duration of a purchase is one month and the maximum duration is three years. Auto-renew is enabled by default, which means the purchased FlexusL instances will be automatically renewed before they expire. If you do not enable auto-renew during the purchase process, you can still enable it later after the instances are created. For more information about auto-renewal rules, see Auto-Renewal Rules .
Quantity	1	Set the number of FlexusL instances to be purchased.

- 3. Click **Buy Now** and complete the payment as prompted.
- 4. Go back to the FlexusL console and view the purchased FlexusL instance.

Step 2: Configure Security Groups

Add inbound security group rules to ensure that the application preinstalled in the image can be accessed.

- 1. Log in to the FlexusL **console** and click a resource card to go to the instance details page.
- 2. In the navigation pane on the left, choose **Cloud Servers**. Locate the server and click its name.



3. On the **Security Groups** tab, click **Add Rule**. In the displayed dialog box, add rules displayed in the following figure and click **OK**.

The following figure only displays common rules. You can add more rules as needed.

Prior ity	Acti on	Туре	Protocol & Port	Source	Description
1	Allo w	IPv4	TCP: 80	0.0.0.0/0	Specifies the internal forwarding port of application images
1	Allo w	IPv4	TCP: 3306	0.0.0.0/0	Allows access to MySQL databases.
1	Allo w	IPv4	TCP: 9001	0.0.0/0	Allows external access to the application dashboard.

Step 3: Reset the Password and Log In to the FlexusL Instance

This section describes how to log in to a FlexusL instance. A FlexusL instance does not have an initial password. After creating a FlexusL instance, set a password for the FlexusL instance before logging in to it.

1. In the **Image** area on the **Overview** page of the FlexusL console, click **Access** to go to the application dashboard and check whether the application has been up and running. If yes, go to the next step.

NOTICE

Wait for several minutes until the image with the pre-installed application is up and running. Then, you can perform operations such as restarting or stopping the instance, or resetting the password. Otherwise, the initial password may become invalid and you cannot log in to the application dashboard.

Figure 3-1 Entry to the application dashboard

After the application is started, the initialization wizard page of the dashboard is displayed, as shown in **Figure 3-2**.

Figure 3-2 Initialization wizard page of the Portainer dashboard

	portainer.io
 New Portainer installation 	
Please create the initial administrator user.	
Username	admin
Password	·····
Confirm password	······
▲ The password must be at least 12 characters	: long. 🗸
Create user	
Allow collection of anonymous statistics. You can fin	d more information about this in our privacy policy.
> Restore Portainer from backup	

If the dashboard is not properly displayed, check the following causes:

- The port for accessing the dashboard is not allowed. Check whether the port is allowed based on **Step 2**: **Configure Security Groups**.
- The dashboard is being started. Try again later.
- 2. Locate the resource card and choose > **Reset Password** to reset the password.

A FlexusL instance does not have an initial password. Set a password for the FlexusL instance before logging in to it. For details, see **Resetting the Password for a FlexusL Instance**.

Figure 3-3 Resetting a password

FlexusL (1)	
Batch operation ⑦	
Running CN E	Secondary 20 (2 (Particular) F.
In use, 31 days until expirat	🗋 Remote Login 🕞 Renew \cdots
	Stop Restart Reset Password
	Upgrade

3. Locate the target instance and click **Remote Login** and enter the username and password as prompted to log in to the FlexusL instance.

The username is **root**, and the password is the one set in **2**.

Flexus L Instance (1)
Q Search or filter by name.
FlexusL (1)
Batch operation 🕐
Running CN North-Beijing4
EIP:1 Private IP:1000000000000000000000000000000000000

Step 4: Initialize Portainer

Application images use code-based Ubuntu. They provide graphical user interfaces to make your operations easier. You need to initialize the application dashboard upon the first login. Then you can directly log in to the dashboard from the FlexusL console afterwards.

1. On the **Overview** page, click **Access** in the **Dashboard** field in the **Image** area.

Bit Diverview Cloud Servers EVS Disks Cloud Backup Vauits Host Security	Resource Overview	B Proces Pow (*) Usage Guesennes Setter Volume Setter Volume Setter Volume Setter Volume I how calcon
	Data Package 400.0xx 0.0xx notative 0xx	Network CP 100 05 (HD // Pros Dantos) 3 MBHs
	Server • hos.rol.the © Runney ☐ Runnillage © Charge Security Group Nove ∨	Image Lean nov > who is a second seco

NOTE

If the dashboard is not properly displayed, check the following causes:

- The port for accessing the dashboard is not allowed. Check whether the port is allowed based on **Step 2: Configure Security Groups**.
- The dashboard is being started. Try again later.

If you use a Portainer application image to create, reinstall, or change the OS of a FlexusL instance, Portainer initialization has a certain validity period. If no users are created within the validity period, a message in the following figure is displayed. In this case, **log in to the server** and run **sudo docker restart portainer** to restart Portainer, and then create a user as soon as possible.

portainer.io
New Portainer installation
Your Portainer instance timed out for security purposes. To re-enable your Portainer instance, you will need to restart Portainer.
For further information, view our documentation.

2. Set the username and password of the Portainer administrator and click **Create user**.

If you have backup data for Portainer, click **Restore Portainer from backup** and upload the backup data to quickly set up the Portainer environment.

Figure 3-4 Initialization wizard page of the Portainer dashboard

	portainer.io	
✓ New Portainer installation		
Please create the initial administrator user.		
Username	admin	
Password	·····	
Confirm password		~
▲ The password must be at least 12 character	s long. 🗸	
Create user		
Allow collection of anonymous statistics. You can fin	ad more information about this in our privacy policy.	
> Restore Portainer from backup		

3. Choose Home and click local to use Portainer for Docker visual management.

portainer.io	#	Home 🔁 Endpoints
Home SETTINGS	*	Information
Users	*	Welcome to Portainer ! Click on any endpoint in the list below to access management features.
Endpoints	¥	
Registries	8	₩ Endpoints
Settings	*	Ø Refresh Q. Search by name, group, tag
		Iocal Imp 2018-11-06 11:06:39 ■ 0 stacks ■ 1 containers - ♥1♥0 & 1 volumes ■ 2 images ■ 2 = 4 cB - ♥ No tags

After the Portainer application is initialized, you can deploy your containers on the dashboard.

Step 5: Use Portainer to Deploy a MySQL Container

This section uses the MySQL container as an example to describe how to use Portainer to visualize Docker management.

Step 1: Create a MySQL Container

1. Choose **Containers** in the left navigation pane and click **Add container**.

	Container lis	st 🕫						Ę	1 🕘 🕺 admin
â Home	😌 Container	rs			Q Search	× 👂 Start 🗆 Stop 🚫 Kill	🖉 Restart 🔡 Pause	D Resume	+ Add container
	□ Name ↓↑	State 11	Filter V Quick Actions	Stack 11	Image U1	Created 11	IP Address 11	Published Ports	Ownership 11
🧼 local 🛛 🗵	portainer	running	8042.0	portainer	portainer/portainer-ce:2.18.3	2023-07-03 10:50:23	172.18.0.2	@9091-9000	administrators
Dashboard									
App Templates ~									Items per page 10
Stacks									
≡ Images									

- 2. Specify MySQL container parameters.
 - ① **Name**: user-defined container name.
 - 2 Image: container image name. For example, if you set this parameter to mysql:5.7, the system automatically pulls the MySQL5.7 container image from Docker Hub.
 - 3 Click **publish a new network port** and add port 3306 to ensure that the MySQL database can be accessed.
 - ④ **Env**: environment variables.
 - MYSQL_ROOT_PASSWORD: password of the root user of the database. This parameter is mandatory. It is used for logging in to the MySQL container. Keep the password secure.

NOTE

Ensure that the **MYSQL_ROOT_PASSWORD** parameter name is correctly entered, or the database cannot be connected.

- MYSQL_DATABASE: name (such as *wordpress*) of the database which is automatically created in the value row after the MySQL container is created. This parameter is optional.
- (5) **Restart policy**: You are advised to select **Always** so that the container is always automatically restarted when it is stopped.

tainers > Add container									
reate container							¢	0 8	admin
Name	mysql								
Image configuration									
Registry	Docker Hub (anonymous)					~			
		1-							
Image*	docker.io mysql:5.7	0				 Search 			
Advanced mode	_								
Always pull the image ⊘									
Vebhooks									
Create a container webhook 🕐	Business Edition	Feature							
letwork ports configuration									
ublish all exposed network ports to andom host ports	0								
Nanual network port publishing 🕥 📲	• publish a new network port								
host 3306		→ contain	ner 3306		TCP	UDP 🗇			
Access control									
Access control									
Enable access control ③			•	Restricted					
Enable access control ③	ement of this resource to administrate	ars only	0	Restricted		rce to a set of users and/or team	6		
inable access control ⑦ Administrators I want to restrict the manag		ors only	0	Restricted I want to restrict		rce to a set of users and/or team	5		
Inable access control ①		urs only	•	Restricted I want to restrict		rce to a set of users and/or team	5		
Inable access control () Administrators I want to restrict the manage Actions uuto remove ()		ns only	•	Restricted I want to restrict		rce to a set of users and/or team	s		
Inable access control ①		urs only	0	Restricted I want to restrict		rce to a set of users and/or team	9		
Inable access control () Administrators I want to restrict the manage Actions uuto remove ()		urs only	•	Restricted I want to restrict		rce to a set of users and/or team	5		
Administrators Administrators Iwart to restrict the manage Administrators Iwart to restrict the manage Administrators Iwart to restrict the manage Administrators Iwart to restrict the manage Administrators Iwart to restrict the manage Iwart to restrict the manage	ement of this resource to administrat	urs only	•	Restricted I want to restrict		nce to a set of users and/or team	s		
Additional access control (*) Administrators Iware to restrict the manage addresses (*) Provey the container	ement of this resource to administrat	on ony	•	Restricted I want to restrict		nce to a set of users and/or team	9		
Additional access control (*) Administrators Iware to restrict the manage addresses (*) Provey the container	ement of this resource to administrat	us only	• Env	Restricted I want to restrict		rce to a set of users and/or team	s	Capabiliti	
Administrators Administrators Ivant to restrict the manage with remove @ Descripted administrators Back Advanced container settil Command & logging	ement of this resource to administrati	٥		I want to restrict	e		5	Capabiliti	
Administrators New to restrict the memory Administrators New to restrict the memory Advanced container settil Command & logging invironment variables	ement of this resource to administration	٥		I want to restrict	e		5	Capabiliti	
Administrators Venet to restore the memory Administrators Venet to restore the memory Advanced container setti Advanced container setti	ement of this resource to administratic ngs Volumes container when deployed	٥		I want to restrict	e		5	Capabiliti	
Administrators Neuro to restrict the memory Administrators Neurone © Command & logging Command & logging Command & logging Environment variables	ement of this resource to administratic ngs Volumes container when deployed	٥		I want to restrict	e		5	Capabiliti	

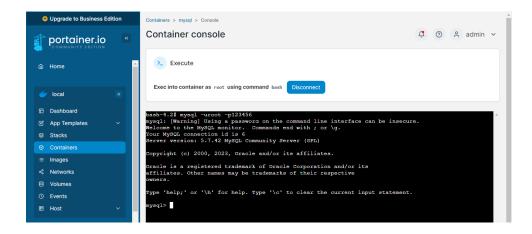
3. Click **Deploy the container** to create a MySQL container.

Step 2: Connect to the MySQL Container

1. Return to the container list and click \geq in the MySQL container row.

Opgrade to Business E	dition	Containers				
	*	Container list \mathcal{C}		Ţ	 옷 adm 	in ~
☐ Home	Â	Ocontainers Q Search	× ▷ Start □ Stop ◎ Kill ∅ Restart ₪ Pause	▶ Resume 🗐 Remo	+ Add conta	iner 🖽
🧼 local	×	▲ Name ↓↑ State ↓↑ Filter ♥	Quick Actions Stack 11 Image 11	Created 41	IP Address ↓↑ F	Publishe
Dashboard		portainer running	O al >- Ø portainer portainer/portainer-ce:2.18.3	2023-06-27 14:55:01	172.18.0.2	8 9091:90
App Templates	~	mysql running	🖻 ① #1 >- Ø - mysql:5.7	2023-06-27 17:10:42	172.17.0.2	3306:33
Stacks		4	- 101.0	_		+
© Containers					Items per page 10	~
≔ Images						

- 2. On the displayed page, click **Connect** to connect to the container.
- Run the following command to log in to the MySQL database: mysql -uroot -p123456, in which 123456 is the value of MYSQL_ROOT_PASSWORD.



3.2 Using Node.js to Run Node.js Programs

Application Scenario

Node.js is an open-source project management software. It provides functions such as project management, Wiki, and news, and integrates tools such as GIT, SVN, and CVS. The Node.js application image uses Ubuntu 22.04 and is deployed using Docker. The Node.js application and the required operating environment have been preconfigured in the Node.js application image. This section describes how to use a Node.js application image to run a Node.js application.

Resource Planning and Costs

Resource	Configuration	Description
Cloud server	vCPUs: 2Memory: 2 GiB	Select appropriate instance specifications based on your service requirements.
Image	Node.js	Select the Node.js application image.
Security group	 Inbound rule: Protocol/ Application: TCP Port: 80, 443, 9000, or 9001 Source: 0.0.0.0/0 	 80: Specifies the internal forwarding port of an application. 443: Allows HTTPS traffic to FlexusL instances. 9001: Allows external access to the application dashboard. 9000: Allows external access to the application O&M page.

Process

Procedure	Description
Step 1: Purchase FlexusL Instances	Purchase a FlexusL instance and select the Node.js application image.
Step 2: Configure Security Groups	Add inbound security group rules to allow traffic from ports 80, 443, 9000, and 9001 to access the application.
Step 3: Run the Node.js Program	Use the Node.js application image to run a Node.js application.

Step 1: Purchase FlexusL Instances

- 1. Log in to the FlexusLconsole and click **Buy FlexusL**.
- 2. Specify required parameters for the FlexusL instance.

Application Image OS Images Private Images Image: Specification Tempore exploration Tempore exploration Private Out dias Auto and votor Image: Data specification Image: Data specification Private Out dias Auto and votor Image: Data specification Image: Data specification Private Out dias Auto and votor Image: Data specification Image: Data specification Private Out dias Auto and votor Image: Data specification Image: Data specification Image: Data specification Image: Data specification Image: Data specification Image: Data specification Image: Data specification Image: Data specification Image: Data specification Image: Data specification Image: Data specification Image: Data specification Image: Data specification Image: Data specification Image: Data specification Image: Data specification Image: Data specification Image: Data specification Image: Data specification Image: Data specification Image: Data specification Image: Data specification Image: Data specification Image: Data specification Image: Data specification Image: Data specification Image: Data specification Image: Data	Yrd-painy provider.						
Person Example Provider Example The second and the second seco	hird-parity provider.						
• •							
	16 GiB						
Pesk Bandwidth 30 Mops Pesk Bandwidth 30 Mops Pesk Bandwidth 20 Mops Pesk Bandwidth 20 Mops Pesk Bandwidth 30 Mops Pesk Bandwidth	320 Gill 30 Mbps 7,168 OB						
The excess subcont tatle, out of the package will be table by halfs: and generate additional cests. Learn non [2 (Options)] Instance Name							
Teder Carrys In a Lata scalar, a type in tilean type in teament in with the of a lata scalar in the of a lata scalar intervent in the scalar intervent interve	USD impeth						
Host Security (HSS Basic Edition) Provides weak provide details and usans for watercalitizes, tande force stacks, and insultaneous logies. \$1.50 USD inventi							
Cloud Backup Valit (CBR) Prevides say to use data backup Instans. Valit Capacity 7008 Backup Prevides say to data backup Instans. Valit Capacity 7008 Backup Prevides says to data backup Instans.							
Required Duration							
1 north 2 moths 3 moths 4 moths 5 moths 7 moths 8 moths 9 moths 1 year 2 Alor eners: Long alors Long alors Long alors Long alors Long alors 1 +							

Paramet er	Example	Description
Region	CN-Hong Kong	For low network latency and quick resource access, select the region nearest to your target users. After a FlexusL instance is created, the region cannot be changed. Exercise caution when selecting a region.
Applicati on Image	Node.js	Select the Node.js application image.
Instance Specificat ions	2 vCPUs 2 GiB System disk 60 GiB	Select instance specifications as needed.
Instance Name	Node- Example	Customize an instance name that is easy to identify, for example, Node-Example.
(Optional) Associate d Service	 Data Disk: 10 GiB Host Security Cloud Backup Vault: 70 GiB 	You can bundle any of EVS, HSS (basic edition), and CBR to your FlexusL instances as needed and set specifications as needed.
Required Duration	1 month	The minimum duration of a purchase is one month and the maximum duration is three years. Auto-renew is enabled by default, which means the purchased FlexusL instances will be automatically renewed before they expire. If you do not enable auto-renew during the purchase process, you can still enable it later after the instances are created. For more information about auto-renewal rules, see Auto-Renewal Rules.
Quantity	1	Set the number of FlexusL instances to be purchased.

- 3. Click **Buy Now** and complete the payment as prompted.
- 4. Go back to the FlexusL console and view the purchased FlexusL instance.

Step 2: Configure Security Groups

Add inbound security group rules to allow traffic from ports 80, 443, 9000, and 9001 to access the application.

- 1. Log in to the FlexusL **console** and click a resource card to go to the instance details page.
- 2. In the navigation pane on the left, choose **Cloud Servers**. Locate the server and click its name.



3. On the **Security Groups** tab, click **Add Rule**. In the displayed dialog box, add rules displayed in the following figure and click **OK**.

The following figure only displays common rules. You can add more rules as needed.

	Add Inbot	Ind Rule Lear	how to add a rule				
Basic Information	If you se	lect IP address for \$4	ource, you can ente	r multiple IP addresses. Each IP a	idress represents a different sec	curity group rule.	
192.168.1 (primary)	Security Group	sg-default-si	Type	Protocol & Port	Source	Description	Operation
	1	Allow V	IPV4 V	80	0.0.0/0	j 📖	M Delete
Rules Learn how to add a rule 🗹	1	Allow V	IPv4 V	TCP (Custom ports) V	IP address		🛱 Delete
Security Group sg-default-smb		-		443	0.0.0.0/0		Booke
	1	Allow V	IPv4 V			2	🛱 Delete
Add Rule Delete Q. Seam				9000	0.0.0.0/0		
Priority 🖯 🗛	1	Allow V	IPv4 V		IP address	4 m	🗄 Delete
1 Dem				9001	0.0.0/0		
	Add Rule						

 Table 3-2
 Security group rules

Prio rity	Acti on	Тур e	Protoc ol & Port	Sour ce	Description
1	Allo w	IPv 4	TCP: 80	0.0.0. 0/0	Specifies the internal forwarding port of an application.
1	Allo w	IPv 4	TCP: 443	0.0.0. 0/0	Allows HTTPS traffic to FlexusL instances.
1	Allo w	IPv 4	TCP: 9000	0.0.0. 0/0	Allows external access to the application O&M page.
1	Allo w	IPv 4	TCP: 9001	0.0.0. 0/0	Allows external access to the application dashboard.

Step 3: Run the Node.js Program

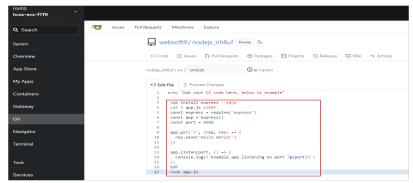
- 1. In the address bar of a local browser, enter **http://***ElP***:9000** and enter the username and password to log in to the application O&M page.
 - The username of the O&M page is **root**.
 - The password of the O&M page is the same as that of the FlexusL instance. The FlexusL instance does not have an initial password. Reset the password of the FlexusL instance. For details about how to reset the password, see Resetting the Password for a FlexusL Instance.
- 2. Choose **My Apps** and click the App icon.
- 3. Select **Compose** and click **Prompt Adjustment**.

root@ hcss-ecs-f7f9		
Q Search		
System	nodejs_nh8uf Active : running(1)	
Overview		
App Store	Overview	Compose
My Apps	Access	Rebuild the application after orchestrating it on-demand. Suitable for users familiar with Docker.
Containers	Container	1 Modify the Git repository for this application.
Gateway	Compose	Websoft9's applications adopt the popular GitOps pattern in cloud-native architecture, where the
Git	Uninstall	orchestration source code of the application is codified and stored in a Git repository.
Navigator		Prompt Adjustment Back:
Terminal		
		Redeploy App

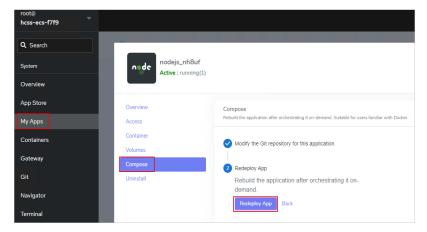
4. On the dashboard, open the **cmd.sh** file in the **src** folder.

root@ hcss-ecs-f7f9		
Q. Search	🧑 Issues Pull Requests Milestones Explore	
System	🙀 websoft9/nodejs_nh8uf Private ล	
Overview	↔ Code 💿 Issues 📫 Pull Requests 🚱 Packages 🖽 Projects 🛇 Releases 🖽 Wiki 🤸 Activity	y
App Store	P main n Add File nodejs_nh8uf/src	
My Apps	websoft9 e1e75426e3 Update src/cmd.sh	
Containers	٢	
Gateway	README.md Initial commit	
Gateway	C cmd.sh Update src/cmd.sh	
Git	III README.md	
Navigator		
Terminal	About	
	This folder includes files mount to container and used by Websoft9	

5. After releasing the code in the file, click **Commit Changes** to submit the code.



6. On the **Compose** page, click **Redeploy App**.



7. On the displayed page, retain the default settings and click **Redeploy**.

Redeploy nodejs_nh8uf		
This will be applied through local warehouse reconstruction. If the warehouse does not exist o warehouse file, the reconstruction will fail.	or there are	errors in the
Re-pull image and redeploy:		
	Close	Redeploy

8. In the address bar of a local browser, enter **http://***ElP***:9001** to check the program execution results.

$\leftarrow \rightarrow$	G	Not secure	123.60.	:9001				
	•••	- 1999 1997		<. (max	 	- 88	•	
Hello Wor	ld!							

4 Setting Up an Application

4.1 Project Management Scenarios

4.1.1 Using GitLab to Manage Teams and Projects

Application Scenario

GitLab is a DevOps platform that provides a complete solution for software development and operations, aiming to help teams collaborate on project development. On GitLab, you can protect your applications, and manage, plan, create, validate, package, release, configure, and monitor project source code. Supported By FlexusL, the GitLab image uses Ubuntu 22.04 and is deployed using Docker. The Nginx and Docker have been preconfigured in the image. This section describes how to use GitLab to manage teams and projects.

Resource Planning and Costs

This practice uses the following resource planning as an example. You can adjust it as required.

Resource	Configuration	Description
Cloud server	vCPUs: 2 Memory: 8 GiB	Select appropriate instance specifications based on your service requirements.
Image	GitLab	Select the GitLab application image.
Security group	 Inbound rule: Protocol/ Application: TCP Port: 80, 9000, 9001 Source: 0.0.0.0/0 	 80: Specifies the internal forwarding port of application images. 9000: Allows external access to the application O&M page. 9001: Allows external access to the application management page.

Resource	Configuration	Description
Domain name	wpwebsite.com	 If the website is only used for personal development or testing, there is no need to add a domain name. If the website is open to the public, add and resolve a domain name for the cloud server.

Process

Procedure	Description	
Step 1: Purchase a FlexusL Instance	Purchase a FlexusL instance and select the GitLab application image.	
Step 2: Configure Security Groups	Add inbound security group rules to ensure that the application preinstalled in the image can be accessed.	
Step 3: Reset the Password and Log In to the FlexusL Instance	A FlexusL instance does not have an initial password. After creating a FlexusL instance, set a password for the FlexusL instance.	
Step 4: Initialize GitLab	Log in to GitLab and select the desired language for the management page.	
Step 5: Use GitLab	Create a project, add project members, and integrate codes.	

Step 1: Purchase a FlexusL Instance

- 1. Log in to the FlexusLconsole and click **Buy FlexusL**.
- 2. Specify required parameters for the FlexusL instance.

_	 Development loot 	Cross-border e-comm	erce Enferonse a	polications Private clos	xt data Audio and	video			
BT BT panel	WordPress	Portamer	PreslaShop	Neddlard	GRLab	189 0300	5xperset	ath Matorio	
6.0.35	6.4	2.19.4	8	280.3	16.0.3	17.0	211	503	
5765 6.0.101	Recrime 5.1	Node,p	Moodle 4.2.4	K00000	200ma	Ghost 5.67	ESPOCRM 0.0		
was initially an open og project manageme		agement project designed to h ation, packaging, release, confi				t provides a complete solution t tankerplace EULA and Marketp			
nce Specifications									
2 vCPU	8 GIB	👳 4 vCPU	8 GIB	🤓 4 vCPI	J 16 GIB				
	160 GIB		240 GIB	System Disk Peak Bandwidth	520 GIB 20 Mbps				
	50 MSp5 6,120 GB		50 MSps 6,144 GB	Data Package	20 Mbps 7,168 GB				
39.00 USD #	orth	\$59.00 USD in	onth	\$79.00 USD	month				
cess outbound traffic	out of the package will be b	illed by traffic and generate ad	iditional costs. Learn m	ore (2					
onal) Instance Nar	ne								
ab-Example		In a batch creation, a hyphen fai	llowed by an incremental nur	mber is added to the end of each ins	stance name by default.				
Data Disk (E		redundancy and cache acceler					Data Disk Gapac		1 USD morth
Howes people	n book storage, with data	reconcarcy and cache acceler	NUCH, EVS CONCESTING	iji renadie, oznadie, kon-salerikj	, saar songe		basa bisk Gapac	iy 1058 30.9	1030 11311
	y (HSS Basic Edition issword detection and scare	n) s for vulnerabilities, brute-force	attacks, and unauthorize	ed logins.				\$1.5	i0 USD month
Cloud Backs	p Vault (CBR)					Vault Capacity	170GHB Backup Policy	detautPolicy \$6.1	2 USD month



Paramet er	Example	Description	
Region	CN-Hong Kong	For low network latency and quick resource access, select the region nearest to your target users. After a FlexusL instance is created, the region cannot be changed. Exercise caution when selecting a region.	
Applicati on Image	GitLab	Select the GitLab application image.	
Instance Specificat ions	2 vCPUs 8 GiB memory	Select instance specifications as needed.	
Instance Name	GitLab- Example	Customize an instance name that is easy to identify, for example, GitLab-Example.	
(Optional) Associate d Services	 Data disk: 10 GiB Host security Cloud backup vault: 170 GiB 	You can bundle any of EVS, HSS (basic edition), and CBR to your FlexusL instances as needed and set specifications as needed.	

Paramet er	Example	Description
Required Duration	1 month	The minimum duration of a purchase is one month and the maximum duration is three years.
		Auto-renew is enabled by default, which means the purchased FlexusL instances will be automatically renewed before they expire. If you do not enable auto-renew during the purchase process, you can still enable it later after the instances are created. For more information about auto-renewal rules, see Auto-Renewal Rules.
Quantity	1	Set the number of FlexusL instances to be purchased.

- 3. Click **Buy Now** and complete the payment as prompted.
- 4. Go back to the FlexusL console and view the purchased FlexusL instance.

Step 2: Configure Security Groups

Add inbound security group rules to ensure that the application preinstalled in the image can be accessed.

- 1. Log in to the FlexusL **console** and click a resource card to go to the instance details page.
- 2. In the navigation pane on the left, choose **Cloud Servers**. Locate the server and click its name.



3. On the **Security Groups** tab, click **Add Rule**. In the displayed dialog box, add rules displayed in the following figure and click **OK**.

The following figure only displays common rules. You can add more rules as needed.

Priorit y	Actio n	Туре	Protocol & Port	Source	Description
1	Allow	IPv4	TCP: 80	0.0.0.0/0	Specifies the internal forwarding port of application images
1	Allow	IPv4	TCP: 9000	0.0.0.0/0	Allows external access to the application O&M page.
1	Allow	IPv4	TCP: 9001	0.0.0.0/0	Allows external access to the application dashboard.

Table 4-1 Security group rules

Step 3: Reset a Password

A FlexusL instance does not have an initial password. After creating a FlexusL instance, set a password for the FlexusL instance. The password of the FlexusL instance is also used for **logging in to the O&M page of the application**.

1. In the **Image** area on the **Overview** page of the FlexusL console, click **Access** to go to the application dashboard and check whether the application has been up and running. If yes, go to the next step.

NOTICE

Wait for several minutes until the image with the pre-installed application is up and running. Then, you can perform operations such as restarting or stopping the instance, or resetting the password. Otherwise, the initial password may become invalid and you cannot log in to the application dashboard.

Figure 4-1 Entry to the application dashboard

B: Overview Cloud Servers Cloud Backup Vaults Hoat Security	Resource Overview © Lage Dudents
	Data Package Network 400.0 w 0.0 w Assem 0% EIP 100.31 (2%) (7) Prior Iterchesting 3 Marks
	Server Learnow > Server Learnow > not so control to Romany Change Society Change

After the application is started, the initialization wizard page of the dashboard is displayed, as shown in **Figure 4-2**.

GitLab Com	munity Edition
Username or email	
root	
Password	
•••••	
Remember me	Forgot your password?
Si	ign in
Don't have an acco	ount yet? Register now

Figure 4-2 Initialization wizard page of the GitLab dashboard

If the dashboard is not properly displayed, check the following causes:

- The port for accessing the dashboard is not allowed. Check whether the port is allowed based on **Step 2: Configure Security Groups**.
- The dashboard is being started. Try again later.
- 2. Locate the resource card and choose > **Reset Password** to reset the password.

For details, see **Resetting the Password for a FlexusL Instance**.

Figure 4-3 Resetting a password

FlexusL (1)	
Batch operation ⑦	
Running CN East-S	unange (10-10-17 an Antonio III.) M.
In use,31 days until expirat) Remote Login 🗔 Renew …
	Stop Restart Reset Password Upgrade

NOTE

The password for logging in to the FlexusL instance is also the password for logging in to the O&M page of the application.

Step 4: Initialize GitLab

Application images use code-based Ubuntu. They provide graphical user interfaces to make your operations easier. You need to initialize the application dashboard upon the first login. Then you can directly log in to the dashboard from the FlexusL console afterwards.

1. In the address bar of a local browser, enter **http://***<Server-EIP***>:9000** to log in to the application O&M page.

The initial username and password for logging in to the application dashboard are stored on the O&M page of the application. You need to log in to the O&M page first to obtain the username and password. The username for logging in to the O&M page is **root**, and the login password is the password reset in **2**.

For details about the FlexusL instances, O&M page, and dashboard, see **What Is the Relationship Among FlexusL Instances, the Dashboard, and the O&M Page?**

2. On the **My Apps** page, click the application icon, choose **Access**, and click **Initial Account** to view the username and password for logging in to the application management page.

The initial password is a randomly generated strong password. After the application is initialized, change the password on the dashboard for easy

management. If the password is changed, the initial password will be invalid. Remember the new password.

hcss-ecs-e139	
Q Search	
System	
Overview	
App Store	No Domain Access
My Apps	No domain name can temporarily access the application by IP + port
Containers	Frontend: Intel Birds and IA Door
Gateway	
Git	
Navigator	Initial Account This application is pre-configured with an administrator account, please change the administrator password immediately. The initial credentatic arc
Terminal	тто простоят и речентрати тал на изполните иссол, рики снатра на изполните разлен и тополну, то тля стоятали на
Tools	Administrator root UserName
Services	
Logs	Administrator 🗠 🐨 💿 🌆

3. On the **Overview** page, click **Access** in the **Dashboard** field in the **Image** area.

Bit Dreeveew Image: Cloud Servers EVS Daka Image: Cloud Backup Vaults Cloud Backup Vaults Image: Host Security Host Security	Resource Overview
	Data Package Network 400.548 0.048 Assister 0% Data Package 0%
	Server Least nov > intege Least nov > intege Charge Security Once More Least nov > intege Charge Security Once More Least nov > integer Least nov

NOTE

If the dashboard is not properly displayed, check the following causes:

- The port for accessing the dashboard is not allowed. Check whether the port is allowed based on **Step 2: Configure Security Groups**.
- The dashboard is being started. Try again later.
- 4. Enter the username and password obtained in 2.

GITLab Com	munity Edition
Username or email	
root	
Password	
••••••	
Remember me	Forgot your password?
S	ign in
Don't have an acco	ount yet? Register now

Figure 4-4 Initialization wizard page of the GitLab dashboard

5. Click **Sign in** to access the GitLab Admin Area.

🦊 🗮 🔍 Search GitLat					• · D n ·	c •• • •
Admin Area	Admin Area > Dashboard					
BE Overview	Q Get security updates	from GitLab and st	ay up to date			×
Dashboard			er to get notified for security update	es.		
Projects	Sign up for the GitLab newsletter					
Users		Sign up to the oncas newsletter				
Groups	Instance overview	w				
Topics						
Gitaly Servers	01		8a 1 🕐 👘	lew user	° 1	
CI/CD	PROJECTS	New project	USERS Users Statistics	lew user	GROUPS	New group
Analytics						
Honitoring	View latest projects >		View latest users >		View latest groups >	
🗗 Messages						
ມໍ System Hooks						
88 Applications	Statistics		Features		Components	Update ASAP 🧑
Abuse Reports	0 Forks	0	Sign up	~	GitLab	15.11.5
Deploy Keys	Issues	0	LDAP 🕐	ப	GitLab Shell	14.18.0
🖉 Labels	Merge requests	0	Gravatar	~	GitLab Workhorse	v15.11.5
Settings	Notes	0	OmniAuth 🕜	~	GitLab API	v4
Collapse sidebar	Snippets	0	Reply by email 🧭	Ċ	GitLab KAS	v15.11.0
oonapse sidengi	SSH Kovs	0	Container Registry	(1)	Ruby	3.0.6n216

After the GitLab application is initialized, you can create projects on the dashboard.

Step 5: Use GitLab

This section describes how to use GitLab to create a project, add project members, and integrate codes.

Step 1: Create a Project

This example demonstrates that how an administrator creates a project, initializes the project, adds a development branch dev, and hides the master branch main from developers.

- 1. Click in the upper left corner and choose **admin** to access the management center.
- 2. Choose **Projects** and click **New project**.

😝 🗏 🔍 Search GitLab	<u> </u>	ß
🖉 Admin Area	Check your sign-up restrictions	
BE Overview	Your GitLab instance allows anyone to register for an account, which is a security risk on public-facing GitLab instances. You should deactivate new sign ups if public users aren't expected to register for an account, which is a security risk on public-facing GitLab instances. You should deactivate new sign ups if public users aren't expected to register for an account, which is a security risk on public-facing GitLab instances. You should deactivate new sign ups if public users aren't expected to register for an account, which is a security risk on public-facing GitLab instances. You should deactivate new sign ups if public users aren't expected to register for an account, which is a security risk on public-facing GitLab instances. You should deactivate new sign ups if public users aren't expected to register for an account, which is a security risk on public-facing GitLab instances. You should deactivate new sign ups if public users aren't expected to register for an account, which is a security risk on public-facing GitLab instances. You should deactivate new sign ups if public users aren't expected to register for an account, which is a security risk on public-facing GitLab instances. You should deactivate new sign ups if public users aren't expected to register for an account, which is a security risk on public-facing GitLab instances. You should deactivate new sign ups if public users aren't expected to register for an account, which is a security risk on public-facing GitLab instances. You should deactivate new sign ups if public users are not secure to register for an account, which is a security risk on public-facing GitLab instances. You should deactivate new sign ups if public users are not secure to register for an account, which is a security risk on public deactivate new secure to register for an account	ount.
Dashboard	Deactivate Acknowledge	
Projects	Admin Area > Projects	
Users	Auminities / Fugeus	
Groups	Filter by name Language Updated date Namespace New Project	
Topics	All Private Internal Public	
Gitaly Servers	——————————————————————————————————————	
	No projects found	
🗠 Analytics		

- 3. Click Create blank project.
- 4. Configure parameters for the project and click **Create project**.
 - Project name: Enter a project name that is easy to identify, for example,
 Project-example.
 - Project URL: It consists of the public IP address of the cloud service and the administrator account. Select root.

Retain the default values for other parameters.

Your work	Your work / Projects / New project / Create blank project
Projects So Groups D Issues	Create blank project Create a blank project to store your files, plan your work, and collaborate on code, among other things.
 Merge requests ☑ To-Do List ☑ Milestones ✗ Snippets 	Project name Project-example Must start with a lowercase or uppercase letter, digit, emoji, or underscore. Can also contain dots, pluses, dashes, or spaces.
③ Activity	Project URL Project slug
	http://114.116 / root / project-example
	Want to organize several dependent projects under the same namespace? Create a group.
	Visibility Level 🕜
	
	Project Configuration
	Initialize repository with a README Allows you to immediately clone this project's repository. Skip this if you plan to push up an existing repository.
	Enable Static Application Security Testing (SAST) Analyze your source code for known security vulnerabilities. Learn more.
	Creste project Cancel

5. Choose **Repository > Files**, click **+ · · · · > New file**, add the **index.html** file to **main**, and click **Commit changes**.

P Project-example	New file
Project information	
Repository	If main / Index.html Image: No wrap
Files	1
Commits	
Branches	
Tags	
Contributor statistics	
Graph	
Compare revisions	
D Issues 0	
 Merge requests 	
8 CI/CD	
Φ Security and Compliance	
Deployments	
Packages and registries	
Infrastructure	
@ Monitor	
抽 Analytics	
🖵 Wiki	Commit message
👗 Snippets	Add new file
Settings	
	Target Branch
	main
« Collapse sidebar	Commit changes Cancel

- 6. Choose **Repository** > **Branches**, click **New branch**, and configure the development branch dev.
 - Branch name: dev
 - Create from: main

P Project-example	Administrator > Project-example > New Branch
Project information	New Branch
Repository	
Files	Branch name
Commits	dev
Branches	Create from
Tags	main ~
Contributor statistics	Existing branch name, tag, or commit SHA
Graph	Create branch Cancel
Compare revisions	
D'Issues 0	

7. Click **Create branch**. Then you can view the created development branch dev.

P Project-example	Administrator > Project-example > Repository > Branches		
Project information	Overview Active Stale All Filter by branch name Q View branch rules New branch		
Repository			
Files	① See all branch-related settings together with branch rules X		
Commits	You can now find an overview of settings for protected branches, merge request approvals, status checks, and security approvals conveniently in one spot.		
Branches	View branch rules Dismiss		
Tags			
Contributor statistics			
Graph	Active branches		
Compare revisions	ע dev ਿ		
D Issues			
13 Merge requests	₽ main 员 default protected		
🥩 CI/CD	 c CPebő342 - Add new file · 1 minute ago 		
Security and Compliance			

Step 2: Add Project Members

After registering an account, users cannot directly log in to GitLab. To let them log in, the administrator needs to approve their registration, invite them to be members of the project, and assign permissions to them.

- 1. Register an account.
 - a. Visit http://public IP address of the server or http://domain name.
 - b. Click **Register now**, enter registration information, and click **Register**.

Citle		
GILLa	b Community Edition	
First name	Last name	
san	zhang	
Username		
devuser		
Username is available. Email		
Email	email address.	
Email	email address.	
Email We recommend a work		۵
Email We recommend a work		۵
Email Merecommend a work Password		6

- 2. The administrator approves the registration.
 - a. Click **m** in the upper left corner and select **admin**.
 - b. On the **Users** page, select **Pending approval**, and click **Approve**.

Admin Area	△ Check your sign-up restrictions
BE Overview	Your GitLab instance allows anyone to register for an account, which is a security risk on public-facing GitLab instances. You should deactivate new sign ups if public users aren't expected to register for an acc
Dashboard	Deactivate Acknowledge
Projects	
Users	Admin Area > Users
Groups	Users Cohorts
Topics	Admins 1 2FA Enabled 0 2FA Disabled 2 External 0 Blocked 0 Banned 0 Pending approval 1 Deactivated 0 Without projects 1 New user
Gitaly Servers	 Admits 1 27A biblioto 2 27A biblioto 2 Caterina o Duckeo o Baineo o Penned o Pen
	Q. Search by name, email, or username Sort by Name ~
Analytics	
Monitoring	Name Projects Groups Created on Last activity
😴 Messages	
ພໍ System Hooks	San zhang Pending approval 0 0 Mar 19, 2024 Never Edit
88 Applications	Approve
Abuse Reports 0	Reject
Deploy Keys	

- 3. The administrator invites users to join the project team and assigns permissions to them.
 - a. Click in the upper left corner, choose **Projects > View all projects**, and click **Administrator/Project-example**.
 - b. Choose **Project information** > **Members** and click **Invite members**.
 - c. Enter the username or email address, assign **Developer** permission to users, and click **Invite**.

P Project-example	Administrator > Project-example > Members
Project information Activity Labels	Project members Index service Values involve a new member to Project-example or invite another group.
Members	Members 1
Repository Issues Merge requests	Or / Elser members N Q Account < (k)
ダ CI/CD 中 Security and Compliance 回 Deployments	Account Username or enail address Exprantion Activity Username or enail address Username or enail address User name of the second secon
Packages and registries Infrastructure Monitor	Select a role Developer Rad more about role permission
	Access expiration date (optional) VYVY-444-50 23 Cancel Inves

You can assign users the following five roles: **Guest**, **Reporter**, **Developer**, **Maintainer**, or **Owner**.

- Guest: allows users to create issues and post comments, and denies them to read or write the repository.
- Reporter: allows users to clone codes, and denies them to submit code.
- Developer: allows users to clone, develop, submit, and push code.
- Master: allows users to create projects, add tags, protect branches, add new members to the project, and edit projects.
- Owner: allows users to assign permissions to access projects, delete or migrate projects, and manage project team members.
- 4. Visit http://*Public IP address of the server* or http://*Domain name*. Enter the username and password to log in to GitLab.

When members log in to GitLab for the first time, select a role for better experience.

Welcome to GitLab, san!			
 personalize your GitLab experience, we'd like to know a bit more about you. Don't worry, this information isn't shared outside of your self- managed GitLab instance.			
Role			
Devops Engineer 🗸			
Get started!			

Step 3: Integrate Codes

- 1. The developers edit and submit code.
 - a. Visit http://*Public IP address of the server* or http://*Domain name* to log in to GitLab.

b. Choose **Projects** and click the target project name.

🦊 ≡ 🔍 Search GitLab	
Your work	Your work > Projects
Projects	Projects
So Groups	Flojecis
D Issues	Yours 1 Starred 0
8 Merge requests	
🗹 To-Do List	All Personal
() Milestones	P Administrator / Project-example & Developer
X Snippets	Administrator / Project-example A

c. Choose **Repository > Branch** and click **dev**.

🖊 🗮 🔍 Search GitLab	Z
P Project-example	Administrator > Project-example > Repository > Branches
Project information	Overview Active Stale All
E Repository	
Files	Active branches
Commits	
Branches	≱ dev 🛱 -~ c9ebó342 - Add new file - 19 minutes ago
Tags	
Contributor statistics	لا main (default protected
Graph	- c9eb6342 · Add new file · 19 minutes ago
Compare revisions	

d. Click Web IED, select a file to edit. For example, edit the index.html file.



e. Choose Control on the left navigation pane to go to the SOURCE CONTROL, and click Commit & Push.

Click No when Commit to a new branch? is displayed.

≡			♦ index.html ×	Commit to a new branch?
Ð			index.html Hello World!	
	Commit & Push			Yes Commit to a new branch No. Use the current branch "dev"
Q	✓ Changes			NO Use the current branch "dev"
沿	 ♦ index.html 	м		
₽ D				
₿				

f. Choose **Repository** > **Files** on the project menu bar. You can view **Update file index.html**. Click **Create merge request**

🔶 😑 🔍 Search GitLab	Z	
P Project-example	Administrator > Project-example > Repository	
 Project information Repository 	You pushed to dev just now	
Files	Create merge request	
Branches Tags	Update file index.html san zhang authored 1 minute ago	
Contributor statistics Graph	main > project-example / + >	
Compare revisions	Name	Last commit
Issues Issues Merge requests	*** README.md	Initial commit
CI/CD	😈 index.html	Add new file

g. Set request information and click **Create merge request**.

Specify the **Reviewer** to **Administrator** and retain the default values for other parameters.

Administrator > Project-examp	> Merge requests > New	
New merge re	uest	
From dev into main Cha	e branches	
Title (required)		
Update file index.html		
 Mark as draft Drafts cannot be merge 	until marked ready.	
Description		
B I -S I=		
Describe the goal of	the changes and what reviewers shoul	Ld be aware of.
Supports Markdown. For guid	actions, type 🖊.	
Assignee Unassigned Reviewer	~ Assign to me	
Administrator	~	
Milestone		
Select milestone	~	
Labels		
Labels		
Labers	~	
Merge options		
	in merge request is accepted. Irge request is accepted. 🕐	
Create merge request	Cancel	
Commits 2 Changes	0	

- 2. The administrator reviews the merge request.
 - a. Click in the upper right corner, choose **Merge requests > New merge request**, and click the specific request title.

₩	
P Your work	Check your sign-up restrictions
Projects	Your GitLab instance allows anyone to register for an account, which is a security risk on public-facing GitLab instances. You should deactivate new sign ups if public users aren't expected to register for an accourt
\$⁰ Groups	Deactivate Acknowledge
D' Issues	Your work > Menge requests
11 Merge requests 1	four work > Merge requests
Assigned 0	Merge requests Select project to create merge request
Review requests 1	
To-Do List 1	Open 1 Merged 0 Closed 0 All 1
③ Milestones	Recent searches v Reviewer = 🕞 Administrator X X
👗 Snippets	
3 Activity	Update file index.html roddprighet-example1 - created 2 minutes ago by san ahang updated 2 minutes ago

b. Click **Merge** to merge the index.html file from **dev** into **main**.

4.1.2 Using Redmine to Create a Project

Application Scenario

Redmine is an open-source project management software. It provides functions such as project management, Wiki, and news, and integrates tools such as GIT, SVN, and CVS. The Redmine application image uses the Ubuntu 22.04 and is deployed using Docker. The Redmine application and the required operating environment have been preconfigured. This section describes how to use the Redmine application image to create a project.

Resource Planning and Costs

Resource	Configuration	Description		
Cloud server	vCPUs: 2Memory: 2 GiB	Select appropriate instance specifications based on your service requirements.		
Image	Redmine	Select the Redmine application image.		
Security group	 Inbound rule: Protocol/ Application: TCP Port: 80, 443, 9000, or 9001 Source: 0.0.0.0/0 	 80: Specifies the internal forwarding port of an application. 443: Allows HTTPS traffic to FlexusL instances. 9001: Allows external access to the application dashboard. 9000: Allows external access to the application O&M page. 		

Process

Procedure	Description
Step 1: Purchase FlexusL Instances	Purchase a FlexusL instance and select the Redmine application image.
Step 2: Configure Security Groups	Add inbound security group rules to allow traffic from ports 80, 443, 9000, and 9001 to access the application.
Step 3: Reset a Password	A FlexusL instance does not have an initial password. After creating a FlexusL instance, set a password for the FlexusL instance.
Step 4: Initialize Redmine	The image application dashboard needs to be initialized only when you log in for the first time.
Step 5: Create a Project	Use the Redmine application image to create a project.

Step 1: Purchase FlexusL Instances

- 1. Log in to the FlexusLconsole and click **Buy FlexusL**.
- 2. Specify required parameters for the FlexusL instance.

Region AP-Singapore CN Hong Kong AP-Sar For low network latency and quick resource access, sele		Sto Paulo1 LA-Mexico City2 LA-Santiago		
Application Images OS Images Private In	mages			
All Website setup Development tools	Cross-border e-commerce Enterprise ap	plications Private cloud disks Audio and via	deo	
COOO Superset	Redmine EspoCRM			
17.0 3.1.1	5.1 8.0			
This image is based on the Ubuntu 22.04 server 64bit Redmine is a flexible project management web applicatio KooGallery image The selected image is from KooGall	on. Written using the Ruby on Raits framework, it is cross	-platform and cross-database. read and agree to the third-party service agreements Mark	etplace EULA and Marketplace Terms. The involce for this	s image will be issued by the third-party provider.
Instance Specifications				
🗢 2 vCPU 2 GIB		😌 2 vCPU 8 GIB	🐡 4 vCPU 8 GIB	🐡 4 vCPU 16 GIB
System Disk 60 GIB	System Disk 80 GIB	System Disk 160 GIB	System Disk 240 GIB	System Disk 320 GIB
Peak Bandwidth 30 Mbps Data Package 3,072 GB	Peak Bandwidth 30 Mbps Data Package 4,096 GB	Peak Bandwidth 30 Mbps Data Package 5,120 GB	Peak Bandwidth 20 Mbps Data Package 6,144 GB	Peak Bandwidth 30 Mbps Data Package 7,168 GB
\$9.00 USD month	\$19.00 USD month	\$39.00 USD .month	\$59.00 USD imonth	\$79.00 USD month
The excess outbound traffic out of the package will be bil	led by traffic and generate additional costs. Learn mor	* (2		
(Optional) Instance Name				
Redmine-Example	In a batch creation, a hyphen followed by an incremental numb	er is added to the end of each instance name by default.		
Data Disk (EVS) Provides persistent block storage. With data n	edundancy and cache acceleration, EVS delivers highly	reliable, durable, low-latency, stable storage.	Data Disk Capa	cty 100iB \$1.00 USD /month V
Host Security (HSS Basic Edition				
	I for vulnerabilities, brute-force attacks, and unauthorized	t logins.		\$1.50 USD /month
Cloud Backup Vault (CBR) Provides easy-to-use data backup functions.			Vault Capacity 90G/B Backup Policy	defaultPolicy \$3.24 USD imonth v
Required Duration				
1 month 2 months 3 months	4 months 5 months 6 months	7 months 8 months 9 months 1	1 year	
Auto-renew Learn about billing rules and renewal d	hration			
Quantity				
- 1 +				

Paramet er	Example	Description
Region	CN-Hong Kong	For low network latency and quick resource access, select the region nearest to your target users. After a FlexusL instance is created, the region cannot be changed. Exercise caution when selecting a region.
Applicati on Image	Redmine	Select the Redmine application image.
Instance Specificat ions	2 vCPUs 2 GiB System disk 60 GiB	Select instance specifications as needed.
Instance Name	Redmine- Example	Customize an instance name that is easy to identify, for example, Redmine-Example.

Paramet er	Example	Description
(Optional) Associate d Service	 Data Disk: 10 GiB Host Security Cloud Backup Vault: 70 GiB 	You can bundle any of EVS, HSS (basic edition), and CBR to your FlexusL instances as needed and set specifications as needed.
Required Duration	1 month	The minimum duration of a purchase is one month and the maximum duration is three years.
		Auto-renew is enabled by default, which means the purchased FlexusL instances will be automatically renewed before they expire. If you do not enable auto-renew during the purchase process, you can still enable it later after the instances are created. For more information about auto-renewal rules, see Auto-Renewal Rules .
Quantity	1	Set the number of FlexusL instances to be purchased.

- 3. Click **Buy Now** and complete the payment as prompted.
- 4. Go back to the FlexusL console and view the purchased FlexusL instance.

Step 2: Configure Security Groups

Add inbound security group rules to allow traffic from ports 80, 443, 9000, and 9001 to access the application.

- 1. Log in to the FlexusL **console** and click a resource card to go to the instance details page.
- 2. In the navigation pane on the left, choose **Cloud Servers**. Locate the server and click its name.

		-	Hong Kong 2 v Id44 O Running		e e	Instance ID	664c5e	_	 Louis	
	Overview Cloud Servers]	Cloud S	ervers	6					
	EVS Disks									
0	Cloud Backup Va	aults		-			-			
\bigcirc	Host Security			20	ID: eb0fa7c	ecs_4d4 2-76f6-4fe			 0.6865	

3. On the **Security Groups** tab, click **Add Rule**. In the displayed dialog box, add rules displayed in the following figure and click **OK**.

The following figure only displays common rules. You can add more rules as needed.

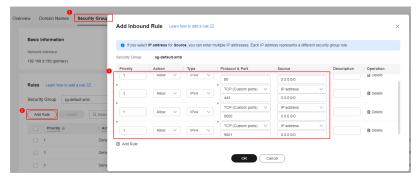


 Table 4-2
 Security group rules

Prio rity	Acti on	Тур е	Protoc ol & Port	Sour ce	Description
1	Allo w	IPv 4	ТСР: 80	0.0.0. 0/0	Specifies the internal forwarding port of an application.
1	Allo w	IPv 4	TCP: 443	0.0.0. 0/0	Allows HTTPS traffic to FlexusL instances.
1	Allo w	IPv 4	TCP: 9000	0.0.0. 0/0	Allows external access to the application O&M page.
1	Allo w	IPv 4	TCP: 9001	0.0.0. 0/0	Allows external access to the application dashboard.

Step 3: Reset a Password

A FlexusL instance does not have an initial password. After creating a FlexusL instance, set a password for the FlexusL instance. The password of the FlexusL instance is also used for **logging in to the O&M page of the application**.

1. In the **Image** area on the **Overview** page of the FlexusL console, click **Access** to go to the application dashboard and check whether the application has been up and running. If yes, go to the next step.

NOTICE

Wait for several minutes until the image with the pre-installed application is up and running. Then, you can perform operations such as restarting or stopping the instance, or resetting the password. Otherwise, the initial password may become invalid and you cannot log in to the application dashboard.

Figure 4-5 Entry to the application dashboard

88 Overview	
Cloud Servers	Resource Overview @ Usage Guidelines
EVS Data Cloud Backup Vaults Host Security	Clead Instance Plant: Ware Court Instance Court Instance Court Instance Court Busice Value Court Busice Value Court Busice Value Court I Busice Calori
	Data Package Network 400.0.a. Availating 0.0.as Used 00
	Server lean nor > Server lean n

After the application is started, the initialization wizard page of the dashboard is displayed.

NOTE

If the dashboard is not properly displayed, check the following causes:

- The port for accessing the dashboard is not allowed. Check whether the port is allowed based on **Step 2: Configure Security Groups**.
- The dashboard is being started. Try again later.
- 2. Locate the resource card and choose > **Reset Password** to reset the password.

For details, see **Resetting the Password for a FlexusL Instance**.

Figure 4-6 Resetting a password

FlexusL (1)	
Batch operation ⑦	
Running CN East-S	1
In use , 31 days until expirat	Remote Login 🗔 Renew
	Stop
	Restart
	Reset Password
	Upgrade

NOTE

The password for logging in to the FlexusL instance is also the password for logging in to the O&M page of the application.

Step 4: Initialize Redmine

Application images use code-based Ubuntu. They provide graphical user interfaces to make your operations easier. You need to initialize the application dashboard upon the first login. Then you can directly log in to the dashboard from the FlexusL console afterwards.

1. In the address bar of a local browser, enter **http://***<Server-EIP***>:9000** to log in to the application O&M page.

The initial username and password for logging in to the application dashboard are stored on the O&M page of the application. You need to log in to the O&M page first to obtain the username and password. The username for logging in to the O&M page is **root**, and the login password is the password reset in **2**.

D NOTE

For details about the FlexusL instances, O&M page, and dashboard, see **What Is the Relationship Among FlexusL Instances, the Dashboard, and the O&M Page?**

2. On the **My Apps** page, click the application icon, choose **Access**, and click **Initial Account** to view the username and password for logging in to the application management page.

The initial password is a randomly generated strong password. After the application is initialized, change the password on the dashboard for easy

management. If the password is changed, the initial password will be invalid. Remember the new password.

hcss-ecs-e139	
Q Search	
System	
Overview	
App Store	No Domain Access
Му Арря	No domain name can temporarily access the application by IP + port
Containers	Frontend: Insur Includ. 200 100 100
Gateway	
Navigator	Initial Account This application is pre-configured with an administrator account, please change the administrator password immediately. The initial credentials are:
Terminal	
Tools	Administrator root UserName
Services	
Logs	Administrator ©

3. In the **Image** area on the **Overview** page of the FlexusL console, click **Access** to go to the application dashboard.

Figure 4-7 Entry to the application dashboard

Cloud Servers	Resource Overview & Process Few @ Usage Guidelin	nes
EVS Diaks Cloud Backup Vaults Host Security	Sector Instance Sector I Sense Warme Sector I Sector	
	Data Package Network 400.0 dar Audeta 0.0 dar Load	
	Server Image Lean nor 2 • kcst_ecs_title 0 Running © Running ice	>

D NOTE

If the dashboard is not properly displayed, check the following causes:

- The port for accessing the dashboard is not allowed. Check whether the port is allowed based on **Step 2: Configure Security Groups**.
- The dashboard is being started. Try again later.
- 4. In the upper right corner, click **Log in**. On the displayed login page, enter the initial username and password obtained in **2** and click **Log in**.

NOTE

If a message is displayed indicating that the username or password you entered is invalid when you attempt to log in to the application dashboard, refer to Why Can't I Access the Dashboard of the Application Pre-installed in the Application Image After Entering the Initial Username and Password?

5. On the dashboard, change the password as prompted and click **Apply**.

NOTE

If the password is changed, the initial password will be invalid. Remember the new password.

After the Redmine application is initialized, you can create projects on the dashboard.

Step 5: Create a Project

1. Click **Projects** in the upper left corner. In the upper right corner of the page, click **New project** to create a project.

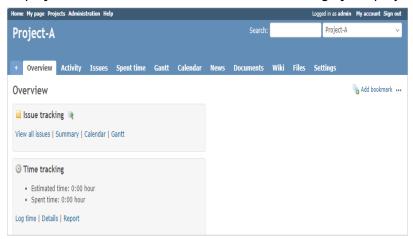
Redmine			Search:	Jump to a project 🗸
Projects Activity				
Projects				💿 New project 🌼 Administratio
V Filters	is v	active 🗸		Add filter 🗸 🗸
> Options				

2. Enter the project name and description and click Create.

Projects									
New project									
Name *	Project-A								
Description	Edit Preview	B I -S C	HI H2 H3			📰 pre	•		
Identifier *	project-a								
	Length between 1 a Once saved, the ide			etters (a-z), r	iumbers, das	hes and u	nderscores	s are allow	ved.
Homepage									
Public									
Inherit members	Public projects and	their contents are o	penly available o	n the network					
Inneric members	U								
 Modules 									
Issue tracking	~	Time tracking			News				
Documents		Files		V	Wiki				
Repository		Forums			Calendar				
🗹 Gantt									
Create Create and add and	other								

3. Manage projects.

After a project is created, multiple tab pages for project management are displayed. You can use various functions to manage your projects.



4.2 Cloud Disk Scenarios

4.2.1 Using Nextcloud to Set Up an Enterprise Web Disk System

Application Scenario

Nextcloud is a suite of open-source cloud based storage software for self-built private cloud disks for enterprises. Nextcloud supports PC, Android, and iOS, and you can easily synchronize with vital data stored on servers, including files, schedules, contacts, and bookmarks. Supported By FlexusL, the Nextcloud image uses Ubuntu 22.04 and is deployed using Docker. The Nginx, MySQL, phpMyAdmin, and Docker have been preconfigured in the image. This section describes how to use Nextcloud to build an enterprise web disk system.

Resource Planning and Costs

Resource	Configuration	Description
Cloud server	vCPUs: 2Memory: 4 GiB	Select appropriate instance specifications based on your service requirements.
Image	Nextcloud	Select the Nextcloud application image.
Security group	 Inbound rule: Protocol & Port TCP: 80,9000,9001 Source: 0.0.0.0/0 Protocol & Port ICMP: all Source: 0.0.0.0/0 	 80: Specifies the internal forwarding port of application images. 9000: Allows external access to the application O&M page. 9001: Allows external access to the application management page.
Domain name	wpwebsite.com	 If the website is only used for personal development or testing, there is no need to add a domain name. If the website is open to the public, add and resolve a domain name for the cloud server.

This practice uses the following resource planning as an example. You can adjust it as required.

Process

Procedure	Description
Step 1: Purchase a FlexusL Instance	Purchase a FlexusL instance and select the Nextcloud application image.

Procedure	Description
Step 2: Configure Security Groups	Add inbound security group rules to ensure that the application preinstalled in the image can be accessed.
Step 3: Reset the Password and Log In to the FlexusL Instance	A FlexusL instance does not have an initial password. After creating a FlexusL instance, set a password for the FlexusL instance.
Step 4: Initialize Nextcloud	Log in to the frontend page and install Nextcloud.
Step 5: Deploy Nextcloud	On the dashboard, perform the following operations: Install applications Configure SMTP

Step 1: Purchase a FlexusL Instance

- 1. Log in to the FlexusLconsole and click **Buy FlexusL**.
- 2. Specify required parameters for the FlexusL instance.

Website set	OS Imegis Privele	Images							
weason set	p Development tool	s Cross-border e-commer	te Exterprise op	plications Private cloud i	Isks Audio and vd	e0			
BT BT panel	(C) WordPress	Rotaner	Preslativo	Co Nachtland	96.00	Const.	Depende	at. Natorio	
6.8.35	6.4	2.19.4	8.1.0	28.8.3	16.5.3	17.0	2.1.1	5.0.3	
585 6.0.101	Bedmine 0.1	Node pr 21	Hoodie 43.4	Kodosa 1.49	Joomia 10.3	Great	EspoCRM 8.0		
interes in based on t	a Ubarthi 22.54 server 64b	105				8.67			
		raelFoult private web diaks. It we FTP, OpenStack Object Storage allery and provided by a third par							
atance Specification	•								
2 vCPL	4 GIB	2 vCPU	8 GIB	👳 4 vCPU	8 GIB	4 vCPU	16 GIB		
System Disk	60 G (B)	System Disk. 1	60 GIB	System Disk	243 GIB	System Disk	329 GIB		
Peak Bandwidth Data Package	30 Mbys 4,096 GM		0 Miles (123 GM		30 Miligis 6,144 CM	Peak Bandwidth Data Package	30 Miles 7,168 GM		
\$19.00 USD		\$39.00 USD ma		\$59.00 USD m		\$79.00 USD /			
					onto.	315.00 030 1	ann		
e excess outboard taff	out of the package will be t	and by tatic and generate and	illiceal costs. Learn mo	*2					
iptional) instance N	me								
kotolog-Example		In a batch creation, a higher faile	and by an incremental num	ber is added in the end of each inclu	rce name by default,				
Data Disk (ent block storage. With data	redundancy and cache accelera	tion, EV8 delivers highly	relatio, durable, low-latency, s	table storage.		Data Disk Capa	ay 10048 \$0.91	USD mon
Provides persis	ty INSS Basic Editio	n)							
Provides persis	ty (HSS Basic Editio	n) 11 for vulnerabilities, brute-force :	staco, and unsathorize	d logins.				\$1.50	USD mon
Provides press			stado, and unsethorize	d logins.				\$1.50	USD mon
Provides perior Host Secur Provides verails Cloud Back	up Vault (CDR)	ns for vulnerabilities, brute-force i	attacio, and unauthorize	d logies.					
Provides perior Host Secur Provides vesits Cloud Back	assured detection and scar	ns for vulnerabilities, brute-force i	atado, and ensethorize	d logins.		Visut Capacity 17	oGali Baadoop Policy		USD mon
Provides perior Host Secur Provides vesits Cloud Back	up Vault (CDR)	ns for vulnerabilities, brute-force i	atado, and unauthorize	d ogins.		Vest Capacity 17	GGB Badap Policy		
Provides perior Host Secur Provides vesits Cloud Back	up Vault (CDR)	ns for vulnerabilities, brute-force i	ataco, and unarthorize	d ingins.		Yout Capacity 17	CGIE Badop Policy		

Paramet er	Example	Description
Region	CN- Hong Kong	For low network latency and quick resource access, select the region nearest to your target users. After a FlexusL instance is created, the region cannot be changed. Exercise caution when selecting a region.

Paramet er	Example	Description
Applicati on Image	Nextclou d	Select the Nextcloud application image.
Instance Specificat ions	2 vCPUs 4 GiB memory and 80 GiB system disk	Select instance specifications as needed.
Instance Name	Nextclou d- Example	Customize an instance name that is easy to identify, for example, Nextcloud-Example.
(Optional) Associate d Services	 Data Disk: 10 GiB Host Securi ty Cloud backu p vault: 90 GiB 	You can bundle any of EVS, HSS (basic edition), and CBR to your FlexusL instances as needed and set specifications as needed.
Required Duration	1 month	The minimum duration of a purchase is one month and the maximum duration is three years.
		Auto-renew is enabled by default, which means the purchased FlexusL instances will be automatically renewed before they expire. If you do not enable auto-renew during the purchase process, you can still enable it later after the instances are created. For more information about auto-renewal rules, see Auto-Renewal Rules.
Quantity	1	Set the number of FlexusL instances to be purchased.

- 3. Click **Buy Now** and complete the payment as prompted.
- 4. Go back to the FlexusL console and view the purchased FlexusL instance.

Step 2: Configure Security Groups

Add inbound security group rules to ensure that the application preinstalled in the image can be accessed.

1. Log in to the FlexusL **console** and click a resource card to go to the instance details page.

2. In the navigation pane on the left, choose **Cloud Servers**. Locate the server and click its name.



3. On the **Security Groups** tab, click **Add Rule**. In the displayed dialog box, add rules displayed in the following figure and click **OK**.

The following figure only displays common rules. You can add more rules as needed.

Table 4-3 Security	group rules
--------------------	-------------

Priorit y	Actio n	Туре	Protocol & Port	Source	Description
1	Allow	IPv4	TCP: 80	0.0.0.0/0	Specifies the internal forwarding port of application images
1	Allow	IPv4	TCP: 9000	0.0.0.0/0	Allows external access to the application O&M page.
1	Allow	IPv4	TCP: 9001	0.0.0.0/0	Allows external access to the application dashboard.

Step 3: Reset a Password

A FlexusL instance does not have an initial password. After creating a FlexusL instance, set a password for the FlexusL instance. The password of the FlexusL instance is also used for **logging in to the O&M page of the application**.

1. In the **Image** area on the **Overview** page of the FlexusL console, click **Access** to go to the application dashboard and check whether the application has been up and running. If yes, go to the next step.

NOTICE

Wait for several minutes until the image with the pre-installed application is up and running. Then, you can perform operations such as restarting or stopping the instance, or resetting the password. Otherwise, the initial password may become invalid and you cannot log in to the application dashboard.

Figure 4-8 Entry to the application dashboard

Drenview Cloud Servers EVS Daks Cloud Backup Vaults Host Security	Resource Overview • Precess Feir • Usage Gutationers • To precess Feir • To precess Feir • To precess Feir • To precess • To precess • To precess • To precess
	Data Package Network 400.0 zm 0.0 cm 0% 0% 100 00 (mill of 0% 100 000) 2 More thankness 3 More thankness 3 More thankness 3 More thankness 1 More thankness 3 More thankness 1 More thank
	Server Learn nor > • Nos_ros_nte @ Running @ Runnistage @ Charge Security Group More > • Nos_ros_nte @ Running @ Runnistage @ Charge Security Group More > • Nos_ros_nte @ Running @ Runnistage @ Charge Security Group More > • Nos_ros_nte @ Running @ Runnistage @ Charge Security Group More > • Nos_ros_nte @ Running @ Runnistage @ Charge Security Group More > • Nos_ros_nte @ Running @ Runnistage @ Charge Security Group More > • Nos_ros_nte @ Running @ Runnistage @ Charge Security Group More > • Nos_ros_nte @ Running @ Runnistage @ Charge Security Group More > • Nos_ros_nte @ Running @ Runnistage @ Charge Security Group More > • Nos_ros_nte @ Running @ Runnistage @ Charge Security Group More > • Nos_ros_nte @ Running @ Runnistage @ Charge Security Group More > • Nos_ros_nte @ Running @ Runnistage @ Runnist

D NOTE

If the dashboard is not properly displayed, check the following causes:

- The port for accessing the dashboard is not allowed. Check whether the port is allowed based on **Step 2: Configure Security Groups**.
- The dashboard is being started. Try again later.
- 2. Locate the resource card and choose > **Reset Password** to reset the password.

For details, see Resetting the Password for a FlexusL Instance.

Figure 4-9 Resetting a password

FlexusL (1)	
Batch operation ⑦	
• Running CN East-S	1999 - 199 -
	Stop Restart Reset Password Upgrade

NOTE

The password for logging in to the FlexusL instance is also the password for logging in to the O&M page of the application.

Step 4: Initialize Nextcloud

Application images use code-based Ubuntu. They provide graphical user interfaces to make your operations easier. You need to initialize the application dashboard upon the first login. Then you can directly log in to the dashboard from the FlexusL console afterwards.

1. In the address bar of a local browser, enter **http://***<Server-EIP***>:9000** to log in to the application O&M page.

The initial username and password for logging in to the application dashboard are stored on the O&M page of the application. You need to log in to the O&M page first to obtain the username and password. The username for logging in to the O&M page is **root**, and the login password is the password reset in **Step 3: Reset a Password**.

D NOTE

For details about the FlexusL instances, O&M page, and dashboard, see **What Is the Relationship Among FlexusL Instances, the Dashboard, and the O&M Page?**

2. On the **My Apps** page, click the application icon, choose **Access**, and click **Initial Account** to view the username and password for logging in to the application management page.

The initial password is a randomly generated strong password. After the application is initialized, change the password on the dashboard for easy

management. If the password is changed, the initial password will be invalid. Remember the new password.

hcss-ecs-e139	
Q, Search	
System	
Overview	
App Store	No Domain Access
	No domain name can temporanily access the application by IP + port
Containers	Frontend:
Gateway	
Navigator	Initial Account This application is pre-configured with an administrator account, please change the administrator password immediately. The initial credentials are:
Terminal	
Tools	Administrator root UserName
Services	Administrator
Logs	Administrator © Password

3. In the **Image** area on the **Overview** page of the FlexusL console, click **Access** to go to the application dashboard.

Cloud Servers Cloud Servers Cloud Backup Vaults Host Security	Resource Overview Is how for the second back of t
	Data Package Network 400.0cm 0.0cm 0% 0
	Server Lean more > Image Lean more > Image Lean more > Image Lean more > Lean more > Image Lean more + Image Lean more + Image Lean more + Image Lean more +

NOTE

If the dashboard is not properly displayed, check the following causes:

- The port for accessing the dashboard is not allowed. Check whether the port is allowed based on **Step 2: Configure Security Groups**.
- The dashboard is being started. Try again later.
- 4. Enter the username and password obtained in 2. Click Log in.

NOTE

If a message is displayed indicating that the username or password you entered is invalid when you attempt to log in to the application dashboard, refer to Why Can't I Access the Dashboard of the Application Pre-installed in the Application Image After Entering the Initial Username and Password?

5. After the installation is complete, you can continue to install recommended applications as prompted or click **Cancel**.

You can still install these applications on the management page subsequently.

6. You can go through the pop-ups to learn about the Nextcloud functions, and then configure Nextcloud on the management page.

After the Nextcloud application is initialized, you can deploy your applications on the dashboard.

Step 5: Deploy Nextcloud

This section describes some basic operations of Nextcloud. For details, see **Nextcloud Documentation**.

Installing Applications

Nextcloud integrates various applications, and you can add more functions to Nextcloud by installing these applications.

- 1. Click in the upper right corner and choose **Apps** to view the applications integrated with Nextcloud.
- 2. Click Enable.

Your apps	4 Activity	2.5.2 V Official	Le Person
Enabled apps	Collaborative tags	1.2.0	I≣ Admin
Disabled apps	Comments	1.2.0 Vofficial	+ Apps
App bundles	Deleted files	1.2.0 Vofficial	i Help
Customization	Federation	1.2.0 Vofficial	C Log ou
Files Sames	File sharing	1.4.0 Vofficial	Disab
Integration	Eirst run wizard	2.1 V Official	Disab

Configuring SMTP

Configuring an SMTP mail server in an application is very important. It can be used to get back your passwords and receive important notifications. You are advised to configure the SMTP service to enable the email notification function.

- 1. Click A in the upper right corner and click **Personal**.
- 2. Enter the sender's email address, for example, example@163.

The email address must be available, and the SMTP function must have been configured.

3. Choose **Administration** > **Basic Settings** > **Email Server**, and configure SMTP information.

In this example, the 163 mailbox is only for reference. Please configure the corresponding parameters when other mailboxes are used.

Email server <i>i</i> It is important to set up this server to be able to se	nd emails, like for passw	vord reset and notificat	tions.
Send mode	SMTP -	Encryption SSL/TLS	•
From address	example	2 163.com	
Authentication method	Login 🔹	Authentication red	quired
Server address	smtp.163.com :	465	
Credentials	example@163.com	SMTP Password	Store credentials
Test email settings Send email			

Parameter	Description		
Send mode	Select SMTP.		
Encryption	Select SSL/TLS.		
From address	Enter an email address, for example, example@163.com.		
Server address	Enter smtp.163.com for the 163 email server.		
Port number	Enter 465.		
Authentication method	Select Authentication required.		
Credentials	• SMTP Username: Set it to the email address.		
	• SMTP Password : Set it to the authorization code obtained when configuring SMTP for example@163.com rather than the login password of example@163.com.		

- 4. Click Store credentials.
- 5. Click **Send email** to test whether the SMTP has been successfully configured.

4.2.2 Using Kodbox to Quickly Set Up a Cloud Disk

Application Scenario

Kodbox is an open-source system that integrates online file management, multicloud storage, and collaborative office. The Kodbox application image uses the Ubuntu 22.04 and is deployed using Docker. The Kodbox application and the required operating environment have been preconfigured. This section describes how to use the Kodbox application image to quickly set up a cloud disk.

Resource	Planning	and	Costs
----------	----------	-----	-------

Resource	Configuration	Description	
Cloud server	vCPUs: 2Memory: 2 GiB	Select appropriate instance specifications based on your service requirements.	
Image	Kodbox	Select the Kodbox application image.	
Security group	 Inbound rule: Protocol/ Application: TCP Port: 80, 443, 9000, or 9001 Source: 0.0.0.0/0 	 80: Specifies the internal forwarding port of an application. 443: Allows HTTPS traffic to FlexusL instances. 9001: Allows external access to the application dashboard. 9000: Allows external access to the application O&M page. 	

Process

Procedure	Description
Step 1: Purchase FlexusL Instances	Purchase a FlexusL instance and select the Kodbox application image.
Step 2: Configure Security Groups	Add inbound security group rules to allow traffic from ports 80, 443, 9000, and 9001 to access the application.
Step 3: Initialize Kodbox.	The image application dashboard needs to be initialized only when you log in for the first time.
Step 4: Deploy a Cloud Disk	Deploy an application on the visualization application management page.

Step 1: Purchase FlexusL Instances

- 1. Log in to the FlexusLconsole and click **Buy FlexusL**.
- 2. Specify required parameters for the FlexusL instance.

Region AP-Banguos <mark>On-Hung Kong</mark> AP-Banglus TII-Istandud MS-Riyadh LA-Sao Pasch LA-Monico City2 LA-Santingo							
For low network latency and quick resource access, s	For sour network likency and quick resource access, select the region nearest to your target users.						
Application Images OS Images Privat	e Images						
All Website setup Development to	ats Cross-border e-commerce Enterprise a	pplications Private cloud disks Audio and	video				
Nextcloud Kodbox							
28.0.3 1.49	J						
This image is based on the Ubuntu 22.04 server 64 Kodbox Cloud is an open-source enterprise cloud stor		cloud storage, and collaborative office, similar to the Wind	ows experience. It is usually used in scenarios such as o	ocument collaboration.			
KooGallery image The selected image is from Kood	Sallery and provided by a third party. Ensure that you have	e read and agree to the third-party service agreements Ma	rketplace EULA and Marketplace Terms. The involce for	this image will be issued by the third-party provider.			
Instance Specifications							
		🐡 2 vCPU 8 GiB	🗇 4 vCPU 8 GiB	🐡 4 vCPU 16 GIB			
System Disk 60 GiB	System Disk 80 GiB	System Disk 160 GIB	System Disk 240 GiB	System Disk 320 GIB			
Peak Bandwidth 30 Mbps Data Package 3,072 GB	Peak Bandwidth 30 Mbps Data Package 4,095 GB	Peak Bandwidth 30 Mbps Data Package 5,129 GB	Peak Bandwidth 30 Mbps Data Package 6,144 GB	Peak Bandwidth 30 Mbps Data Package 7,168 GB			
\$9.00 USD month	\$19.00 USD month	\$39.00 USD /month	\$59.00 USD /month	\$79.00 USD /month			
The excess outbound traffic out of the package will be	billed by traffic and generate additional costs. Learn m	iore 🖄					
(Optional) Instance Name							
Kodbax-Example	in a batch creation, a hyphen followed by an incremental nu	mber is added to the end of each instance name by default.					
Data Disk (EVS)							
	ta redundancy and cache acceleration, EVS delivers high	ly reliable, durable, low-latency, stable storage.	Data Disk Ca	pacity 10GIB \$1.00 USD (month v			
Host Security (HSS Basic Editi	on)						
	Provide weak passward deciden and scares for whereaddless, trade force attacks, and unauthorized logits. \$1.50 USD month						
Claud Backup Vault (CBB)							
Cloud Backup Vault (CBR) Privide sety to use data backup functions. Vault Capacity 7/068 Eactup Fields defaultPolicy \$2.52 USD month v							
Required Duration							
1 month 2 months 3 months	4 months 5 months 6 months	7 months 8 months 9 months	1 year				
Auto-renew Learn about billing rules and renews Quantity							
- 1 +							

Paramet er	Example	Description	
Region	CN-Hong Kong	For low network latency and quick resource access, select the region nearest to your target users. After a FlexusL instance is created, the region cannot be changed. Exercise caution when selecting a region.	
Applicati on Image	Kodbox	Select the Kodbox application image.	
Instance Specificat ions	2 vCPU 2 GiB System disk 60 GiB	Select instance specifications as needed.	
Instance Name	Kodbox- Example	Customize an instance name that is easy to identify, for example, Kodbox-Example.	
(Optional) Associate d Service	 Data Disk: 10 GiB Host Security Cloud Backup Vault: 70 GiB 	You can bundle any of EVS, HSS (basic edition), and CBR to your FlexusL instances as needed and set specifications as needed.	
Required Duration	1 month	The minimum duration of a purchase is one month and the maximum duration is three years. Auto-renew is enabled by default, which means the purchased FlexusL instances will be automatically renewed before they expire. If you do not enable auto-renew during the purchase process, you can still enable it later after the instances are created. For more information about auto-renewal rules, see Auto-Renewal Rules .	
Quantity	1	Set the number of FlexusL instances to be purchased.	

- 3. Click **Buy Now** and complete the payment as prompted.
- 4. Go back to the FlexusL console and view the purchased FlexusL instance.

Step 2: Configure Security Groups

Add inbound security group rules to allow traffic from ports 80, 443, 9000, and 9001 to access the application.

- 1. Log in to the FlexusL **console** and click a resource card to go to the instance details page.
- 2. In the navigation pane on the left, choose **Cloud Servers**. Locate the server and click its name.



3. On the **Security Groups** tab, click **Add Rule**. In the displayed dialog box, add rules displayed in the following figure and click **OK**.

The following figure only displays common rules. You can add more rules as needed.

	Add Inb	ound Rule Lear	n how to add a rule	2			
Basic Information	O If you	select IP address for \$	ource, you can ente	r multiple IP addresses. Each IP add	ress represents a different securit	y group rule.	
192.168.1 (primary)	Security Gro						
	Priority	Action	Туре	Protocol & Port	Source		ration
	1	Allow	IPV4 V	80	0.0.0/0	- WD	eiete
Rules Learn how to add a rule [2]	1	Allow	IPv4 V	TCP (Custom ports) V	IP address V		
Security Group so-default-smb		Allow	1994	443	0.0.0.0/0		elete
	- 1	Allow	IPv4 V	TCP (Custom ports) V	IP address V		
Add Rule Delete	Q, Searc	Allow	IPV4 V	9000	0.0.0.0/0		eiere
Priority 0	Act	Allow	IPv4 V	TCP (Custom ports) V	IP address V	80	alata
				9001	0.0.0.0/0		
1	Deny Add Rul	3				-	
□ 1	Denv						

 Table 4-4 Security group rules

Prio rity	Acti on	Typ e	Protoc ol & Port	Sour ce	Description
1	Allo w	IPv 4	TCP: 80	0.0.0. 0/0	Specifies the internal forwarding port of an application.
1	Allo w	IPv 4	TCP: 443	0.0.0. 0/0	Allows HTTPS traffic to FlexusL instances.
1	Allo w	IPv 4	TCP: 9000	0.0.0. 0/0	Allows external access to the application O&M page.
1	Allo w	IPv 4	TCP: 9001	0.0.0. 0/0	Allows external access to the application dashboard.

Step 3: Initialize Kodbox.

Application images use code-based Ubuntu. They provide graphical user interfaces to make your operations easier. You need to initialize the application dashboard upon the first login. Then you can directly log in to the dashboard from the FlexusL console afterwards.

1. On the **Overview** page, click **Access** in the **Dashboard** field in the **Image** area.

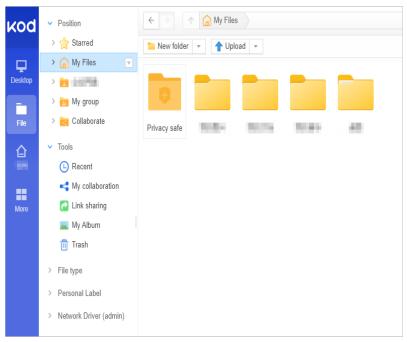
Cloud Servers Cloud Servers Cloud Backup Vaults Hoat Security	Resource Overview
	Data Package Network 400.0 as Analosis 0.0 as Voter
	Server Image Lease now > Image Lease now + Image

D NOTE

If the dashboard is not properly displayed, check the following causes:

- The port for accessing the dashboard is not allowed. Check whether the port is allowed based on **Step 2: Configure Security Groups**.
- The dashboard is being started. Try again later.
- 2. Set the account and password for logging in to the dashboard and click **OK**. Kodbox does not have a default username or password. Set a usename and password that are easy to remember.
- 3. Enter the username and password for logging in to the dashboard, and click **Log in**.
- 4. Check the application dashboard.

After logging in to the application management page, information similar to the following is displayed.



After the Kodbox application is initialized, you can deploy your applications on the dashboard.

Step 4: Deploy a Cloud Disk

For details about how to deploy a Kodbox cloud disk, see **Kodbox Service Support**.

4.3 E-commerce

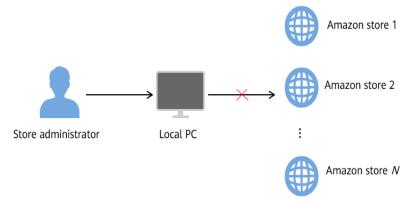
4.3.1 Using Windows Server to Set Up a Cross-Border E-Commerce Store

Application Scenario

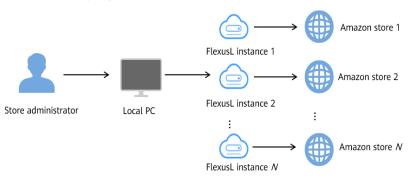
Windows Server is a group of Microsoft-developed OSs for servers. This section uses the Windows Server 2016 OS image as an example to describe how to set up and manage cross-border e-commerce stores. The following uses Amazon stores as an example to show how to manage multiple e-commerce stores on FlexusL instances.

Solution Architecture

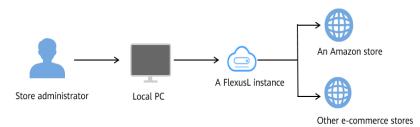
On the Amazon platform, a seller cannot manage multiple accounts from the same public IP address. This can raise red flags and may lead to account suspension or other consequences.



With FlexusL instances, you can log in to different stores from the same host without worrying about account issues.



You can also use the same FlexusL instance to manage stores on other e-commerce platforms.



Resource Planning and Costs

 Table 4-5 Resource Planning and Costs

Resou rce	Туре	Description	Cost	
Cloud server	 vCPUs: 2 Memory: 2 GiB 	FlexusL instances are easy to provision and manage. In this example, three FlexusL instances are created, each with 2 vCPUs and 2 GiB memory. You can select proper FlexusL instance flavors based on service requirements. The FlexusL instance names are MyShop_1 , MyShop_2 , and MyShop_3 , respectively.	You need to pay for resour ces packed in the	
EIP	Automatically assigned	An EIP can be used for Internet access. By default, one fixed EIP is assigned to a FlexusL instance.	Flexus L instanc es.	
Data disk	10 GiB	Data disks are used to store data except the operating system. They are like drive D, drive E, and drive F in a PC.	Windo ws private	
CBR	70 GiB	Cloud Backup and Recovery (CBR) can back up data in system and data disks of FlexusL instances and restore data if instances fail.	images are free.	
HSS	Host security	Host Security Service (HSS) is designed to improve the overall security of FlexusX instances. It helps you eliminate risks and defend against intrusions and web page tampering. There are also advanced protection and security operations functions available to help you easily detect and handle threats.		
Image	Windows Server 2019	Windows Server 2019 is used.		

Process

Procedure	Description
Preparations	Upload the Windows Server 2019 private image created from the Windows Server 2019 image to the IMS console so that you can select the Windows Server 2019 private image when purchasing FlexusL instances.
Step 1: Purchase FlexusL Instances	Purchase a FlexusL instance and select the Windows Server 2019 private image.
Step 2: Configure Security Groups	Configure inbound rules for a security group to ensure that the FlexusL instance can be accessed.
Step 3: Log In to a FlexusL Instance Server	Set a password and log in to the FlexusL instance server.
Step 4: Remove the Session Time Limit	Set the session time and remove the session time limit to avoid repeated logins due to session timeout.
Step 5: Open Stores	After the preceding steps are complete, you have obtained a complete Windows Server FlexusL instance with a fixed EIP bound. You can create accounts, and open and manage stores on e-commerce websites.

Preparations

To use the Windows Server 2019 image, create a private image from it on the IMS console first.

- If your image format is VMDK, VHD, QCOW2, VHDX, QED, VDI, QCOW, or ZVHD, see Creating a Windows System Disk Image from an External Image File.
- If your image format is ISO, see Creating a Windows System Disk Image from an ISO File.
- If your image format is RAW or ZVHD2, see Quickly Importing an Image File.

NOTICE

Images are regional resources. FlexusL instances only can use private images that are in the same region as them. Ensure that the image is in the same region as the FlexusL instance.

Step 1: Purchase FlexusL Instances

- 1. Log in to the FlexusLconsole and click **Buy FlexusL**.
- 2. Specify required parameters for the FlexusL instance.

ation images OS images Privat	æ Images			
own server 2019 (40Gill)	V Create 🖄			
ID: 50568ad-95ed-4335-95a7-6363580c77b4				
Driv certain system clak images in the sel images before using them.	ected region are supported. Learn about the constr	ainta [of private		
ce Specifications				
2 VCPU 2 GIB	😌 2 vCPU 4 GIB	😌 2 vCPU 8 GIB	🗇 4 vCPU 8 GIB	🦁 4 vCPU 16 GIB
em Disk 60 GiB	Bystem Disk 80 GiB	System Disk 160 GiB	System Disk 240 GiB	System Disk 220 GiB
Clandwidth 30 Mbps	Peak Bandwidth 30 Mbps Data Package 4,096 GB	Peak Bandwidth 30 Mbps Data Package 5,120 GB	Peak Sandwidth 30 Mbps Data Packase 5,144 GB	Peak Sandwidth 20 Mbps Data Package 7,198 GB
.00 USD month	\$19.00 USD more	\$39.00 USD month	\$59.00 USD month	\$79.00 USD more
onal) Instance Name	Lend by Sum and percent additional costs Lend In a bash orador, a hydror followed by an income	let more ca		
onal) Instance Name		fol number is added to the end of such induces some by clickat,		\$0.91 USD month
onal) Instance Name ^{vop_1} Data Disk (EVS)	Is a both stration, a higher biowed by an income and instandancy and cache acceleration, EV2 determined	fol number is added to the end of such induces some by clickat,		\$0.31 USD month
onal Instance Name Nep_1 Data Disk (EVS) Data Disk (EVS) Data Disk Capacity Data Disk Cap	In a bala unadam, a traphen biserator a numero en malandamy and cache eccestration, CVD obsert + 06 General Purpose SIO V	fol number is added to the end of such reduces some by default		
Initiance Name Neq.1 Data Disk (EVS) Data Disk (EVS) Data Disk Cevery 1 Data Security (HSS Basic Edit	In a bala unadam, a traphen biserator a numero en malandamy and cache eccestration, CVD obsert + 06 General Purpose SIO V	Mervander 1 under te fon met of samt mission some for index namps mission, samt some some some some some some		\$8.31 UBD more \$1.30 UBD more
Anal Jinstance Name Meg.1 Deata Disk (EVS) Provide permanent back the regul, white Deata Disk (EVS) Media water personal distribution and the Media backup Vourt (CBR)	In a stand work, is have below by a number of the standard standa	Mervander 1 under te fon met of samt mission some for index namps mission, samt some some some some some some		\$1.50 USD month
Annal Imstance Name Norg.3 Data Disk (EVS) Provide permitted back skrager With the Data Disk Capacity Provide serving register and the Data Disk Capacity Provides well presented distribution and the	In a stand work, is have below by a number of the standard standa	Mervander 1 under te fon met of samt mission some for index namps mission, samt some some some some some some		
Data Disk (EV6) Data Disk (EV6) Otaba Disk (EV6)	In a shear work, it have below the second s	Mervander 1 under te fon met of samt mission some for index namps mission, samt some some some some some some	acteologi Translar Prings Statesty and Surely	\$1.50 USD month
Hand Dividence Name Henry I Data Divid (PCM) Probaba possibilitation of the Divid Security (PCM Disarce Definition of the Dividence Di	In a shear work, it have below the second s		ennang, Transp. Prong. Salanda, and Tanny	\$1.50 USD month
Hand Dividence Name Henry I Data Divid (PCM) Probaba possibilitation of the Divid Security (PCM Disarce Definition of the Dividence Di	In a shear work, it have below the second s			\$1.50 USD month

Parame ter	Example	Description
Region	CN-Hong Kong	For low network latency and quick resource access, select the region nearest to your target users. After a FlexusL instance is created, the region cannot be changed. Exercise caution when selecting a region.
lmage	Windows Server 2019	In the private image list, select the Windows Server 2019 private image which is in the same region (CN-Hong Kong) as the instance and has been uploaded to the IMS console.
Instanc e Specific ations	2 vCPUs 2 GiB memory and 60 GiB system disk	Select instance specifications as required.
Instanc e Name	MyShop_1	Customize an instance name that is easy to identify, for example, MyShop_1, MyShop_2, and MyShop_3.

Parame ter	Example	Description
(Option al) Associa ted Services	 Data Disk: 10 GiB Host Security Cloud backup vault: 70 GiB 	You can bundle any of the services to your FlexusL instances as needed: EVS, HSS (basic edition), and CBR.
Require d Duratio n	 1 month Enabling auto- renew 	The minimum duration of a purchase is one month and the maximum duration is three years. Auto-renew is enabled by default, which means the purchased FlexusL instances will be automatically renewed before they expire. If you do not enable auto-renew during the purchase process, you can still enable it later after the instances are created. For more information about auto-renewal rules, see Auto-Renewal Rules .
Quantit y	3	Set the number of FlexusL instances to be purchased, for example, three in this example.

- 3. Click **Buy Now** and complete the payment as prompted.
- 4. Go back to the FlexusL console and view the purchased FlexusL instance.

L Instances (9)		
Batch operation (2)		
MyShop_1-7996	MyShop_1-7997	MyShop_1-7998
o Running	o Running	o Running
📀 windows server 2019	S windows server 2019	Swindows server 2019
2 vCPU [2 GiB]	2 vCPU 2 GIB motion and similar data property distribution from the second to the	2 vCPU 2 GB come and shall a first particular the GR, had a second of the
EIP:100.85	EIP:100.85	EIP:100.93
In use, 31 days until expira 🖵 Remote Login 😨 Renew \cdots	In use, 31 days until expira 📮 Remote Login 🔋 Renew \cdots	In use, 31 days until expira 🖵 Remote Login 🗊 Renew \cdots

5. Hover the pointer over a resource card, click *A* next to the instance name, and change it to **MyShop_1**, **MyShop_2**, and **MyShop_3**, respectively.

Step 2: Configure Security Groups

Configure inbound rules for security groups to ensure that the FlexusL instance can be accessed.

- 1. Log in to the FlexusL **console** and click a resource card to go to the instance details page.
- 2. In the navigation pane on the left, choose **Cloud Servers**. Locate the server and click its name.

			Hong Kong 2 vCPU	2 Instance ID 66	64c5e D	1.0.1.00 (1.0.1.).
88 @	Overview Cloud Servers]	Cloud Server	i.		
	EVS Disks					
0	Cloud Backup Va	aults				
\oslash	Host Security		(B)	hcss_ecs_4d44 ID: eb0fa7c2-76f6-4fe 2 vCPU		10 1840.

3. On the **Security Groups** tab, click **Add Rule**. In the displayed dialog box, add rules displayed in the following figure and click **OK**.

The following figure only displays common rules. You can add more rules as needed.

Overview Domain Names Security Group	Add Inbound Rule Learn how to add a rule [2]	×
Basic Information	If you select IP address for Source, you can enter multiple IP addresses. Each IP address represents a different security group rule.	
Network Interface 192.168.0.61 (primary)	Security Group sg-default-smb	
	Priority Action Type Protocol & Port Source Description	Operation
Rules Learn how to add a rule 🖄	1 Allow IP44 TCP (Custom ports) ∨ IP address ∨ Allows HTTP access to cloud servers 80 0.00.00 0.00.00 Allows HTTP access to cloud servers Allows HTTP access to cloud servers	Delete
Security Group sg-default-smb	1 Allow IP44 v TCP (Custom ports) v IP address v Allows HTTPS access to cloud servers	🗇 Delete
Add Rule Delete Q Searc	Add Rule	
Priority ⊕ Act □ 1 Allow	OK Cancel	

Table 4-6 Security group rules

Priorit y	Actio n	Туре	Protocol & Port	Source	Description
1	Allow	IPv4	TCP: 80	0.0.0.0/0	Allows HTTP traffic to FlexusL instances.
1	Allow	IPv4	TCP: 443	0.0.0.0/0	Allows HTTPS traffic to FlexusL instances.

Step 3: Log In to a FlexusL Instance Server

For Windows FlexusL instances, the administrator username is **Administrator** and there is no default password. Set a password before logging in to the server.

1. Enable **Batch operation**, select **Select all**, and click **Reset Password**.

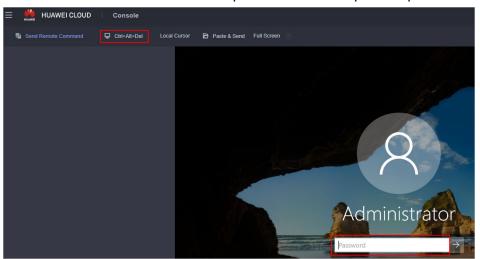
L Instances (9)		
Batch operation () Select at Start Stop	Restart Reset Password Renew Unsubscribe B	atch Reinstalling OSs 🛃
WyShop_1 o Running	MyShop_2 o Running	MyShop_3 o Running
windows server 2019 2 vCPU 2 GG EIP-100 85	😵 windows server 2019 2 vCPU (2 GB () EIP-100.85	windows server 2019 2 \CPU [2 GB EIP-100 93
in use, 31 days until expira 🖵 Remote Login 🗊 Renew \cdots	in use, 31 days until expira 📿 Remote Login 頂 Renew \cdots	In use, 31 days until expira 📮 Remote Login 🗃 Renew \cdots

2. Set a new password for the FlexusL instance servers and click **OK**.

If you reset the password for running servers, the password change is applied only after the next restart. Select **Auto Restart**. After the password is reset, the server status becomes **Restarting**. Wait until the status changes to **Running** and go to the next step.

Reset Password	\times
The passwords of the following servers will be reset to the same value.Show ${m \vee}$	
New Password	
Confirm Password	
<i></i>	
Auto Restart	
Select this option to apply the password change.	
Auto restart may cause data loss. You are advised to stop the server first before resetting the password. If the server uses an application image, check that the image application is up and running (2) (about 1–30 minutes after the server creation is submitted) and then reset the password, or the reset may fail.	
OK Cancel	

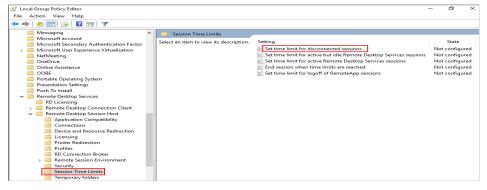
- 3. In the resource card, click **Remote Login** to remotely log in to the cloud server using VNC.
- Click Ctrl+Alt+Del in the upper left corner to unlock the desktop.
 Follow the instructions to enter the password set in step 2 and press Enter.



Step 4: Remove the Session Time Limit

A session is a sequence of uninterrupted requests and responses between a user and a server. Session timeout occurs when a user does not perform any action within a specified period and the session of the user is terminated. Once the session times out, you need to log in to the FlexusL instance server again. This section describes how to remove the session time limit.

- 1. In the search box at the lower left corner of the page, search for **RUN**.
- 2. Enter **gpedit.msc** in the **RUN** dialog box and click **OK**.
- In the Local Group Policy Editor window, choose Computer Configuration > Administrative Templates > Windows Components > Remote Desktop Services > Remote Desktop Session Host > Session Time Limits, and double-click Set time limit for disconnected sessions in the right pane.



4. In the displayed dialog box, select **Enabled** and set **End a disconnected session** to **Never**. Click **OK**.

 Set time limit for disconnected sessions Set time limit for disconnected sessions Previous Setting Next Setting Not Configured Comment: © Enabled Disabled Supported on: At least Windows Server 2003 operating systems or Windows XP Professional Options: Help: End a disconnected session Never Mever This policy setting allows you to configure a time limit for disconnected session remains active on the server. By default, Remote Desktop Services session without logging off and ending the session. When a session is in a disconnected sessions are maintained for an unlimited time on the server. If you enable this policy setting, disconnected sessions are maintained for an unlimited time, select Never. If you have a console session disconnected sessions are maintained for an unlimited time, select Never. If you have a console session disconnected sessions are maintained for an unlimited time, select Never. If you have a console session disconnected sessions are maintained for an unlimited time, select Never. If you have a console session disconnected sessions are maintained for an unlimited time, select Never. If you have a console session disconnected sessions are maintained for an unlimited time, select Never. If you have a console session disconnected sessions are maintained for an unlimited time, select Never. If you have a console session disconnected sessions are maintained for an unlimited time, select Never. If you have a console session disconnected sessions are maintained for an unlimited time, select Never. If you have a console session disconnected sessions are maintained for an unlimited time, select Never. If you have a console session disconnected session are maintained for an unlimited time, select Never. If you have a console session disconnected session are maintainde for	Set time limit for disconnected a					
Not Configured Comment: Enabled Disabled At least Windows Server 2003 operating systems or Windows XP Professional At least Windows Server 2003 operating systems or Windows XP Professional Options: Help: End a disconnected session Never Vou can use this policy setting allows you to configure a time limit for disconnected Remote Desktop Services sessions. Vou can use this policy setting to specify the maximum amount of time that a disconnected session remains active on the server. By default, Remote Desktop Services allows users to disconnect from a Remote Desktop Services session without logging off and ending the session. When a session is in a disconnected state, running programs are kept active even though the user is no longer actively connected. By default, these disconnected sessions are maintained for an unlimited time on the server.	g occumentation asconnected s	essions				\times
Onder Contigured Communication Contigured Communication Contigured Communication Contigured Communication Contigured Communication Control Contigured Communication Control Contrector Con	Set time limit for disconnected s	ssions	Previous Settin	Next Setting		
Supported on: At least Windows Server 2003 operating systems or Windows XP Professional Options: Help: End a disconnected session Never Vou can use this policy setting allows you to configure a time limit for disconnected Remote Desktop Services sessions. You can use this policy setting to specify the maximum amount of time that a disconnected session remains active on the server. By default, Remote Desktop Services allows users to disconnect from a Remote Desktop Services session without logging off and ending the session. When a session is in a disconnected state, running programs are kept active even though the user is no longer actively connected. By default, these disconnected sessions are maintained for an unlimited time on the server. If you enable this policy setting, disconnected sessions are deleted from the server. If you enable this policy setting, disconnected sessions are maintained for an unlimited time of an unlimited time, select Never. If you have a	Not Configured					^
End a disconnected session Never This policy setting allows you to configure a time limit for disconnected Remote Desktop Services sessions. You can use this policy setting to specify the maximum amount of time that a disconnected session remains active on the server. By default, Remote Desktop Services allows users to disconnect from a Remote Desktop Services allows users to disconnect from a Remote Desktop Services session without logging off and ending the session. When a session is in a disconnected state, running programs are kept active even though the user is no longer actively connected. By default, these disconnected sessions are maintained for an unlimited time on the server. If you enable this policy setting, disconnected sessions are deleted from the server after the specified amount of time. To enforce the default behavior that disconnected sessions are maintained for an unlimited time, select Never. If you have a		: At least Windo	ws Server 2003 operating system	ns or Windows XP Profe	essional	× ×
disconnected Remote Desktop Services sessions. You can use this policy setting to specify the maximum amount of time that a disconnected session remains active on the server. By default, Remote Desktop Services allows users to disconnect from a Remote Desktop Services session without logging off and ending the session. When a session is in a disconnected state, running programs are kept active even though the user is no longer actively connected. By default, these disconnected sessions are maintained for an unlimited time on the server. If you enable this policy setting, disconnected sessions are deleted from the server after the specified amount of time. To enforce the default behavior that disconnected sessions are maintained for an unlimited time, select Never. If you have a	ptions:		Help:			
OK Cancel Apply	nd a disconnected session Neve	~	disconnected Remote Deskt You can use this policy settin of time that a disconnected By default, Remote Desktop Sop from a Remote Desktop Son ending the session. When a session is in a discor kept active even though the By default, these disconnect unlimited time on the server If you enable this policy sett deleted from the server after enforce the default behavior maintained for an unlimited	op Service's sessions. Ing to specify the maximus session remains active of Services allows users to icces session without log unected state, running p user is no longer activel ed sessions are maintain ing, disconnected session the specified amount of that disconnected session time, select Never. If yo ed session time limits do	um amount in the server disconnect giging off an rograms are y connecter ted for an ins are f time. To ons are u have a o not apply.	r. d e d.

- 5. In the Local Group Policy Editor window, double-click Set time limit for active but idle Remote Desktop Services sessions in the right pane.
- 6. In the displayed dialog box, select **Enabled** and set **Idle session limit** to **Never**. Click **OK**.

Set time limit for ac	tive but idle Ren	note Desktop Serv	vices sessions				×
Set time limit for ac	tive but idle Rer	note Desktop Ser	vices sessions	Previous Setting	Next Setting		
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Options:			Help:				
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Step 5: Open Stores

Now you have obtained a Windows Server FlexusL instance with a fixed EIP bound. You can create accounts, and open and manage stores on e-commerce websites.

When running e-commerce stores, you may need to upload your local files to cloud servers. For details, see **How Do I Upload Files to My ECS** (The method also applies to uploading files to FlexusL instances).

4.3.2 Using PrestaShop to Build an E-Commerce Website

Application Scenario

PrestaShop is a full-featured, cross-platform, and open source e-commerce platform written in the PHP programming language with support for the MySQL database management system. PrestaShop supports transactions using different currencies and almost all payment methods, such as Paypal. It is a good choice for you to build foreign trade websites. Supported By FlexusL, the PrestaShop application image uses Ubuntu 22.04 and is deployed using Docker. The Nginx, MySQL, phpMyAdmin, and Docker have been preconfigured in the image. This section describes how to use PrestaShop to build an e-commerce website.

Resource Planning and Costs

This practice uses the following resource planning as an example. You can adjust it as required.

Resource	Configuration	Description
Cloud server	vCPUs: 2Memory: 2 GiB	Select appropriate instance specifications based on your service requirements.
Image	PrestaShop	Select the PrestaShop application image.
Security group	 Inbound rule: Protocol/ Application: TCP Port: 9001, 9000, 3306 Source: 0.0.0.0/0 	 80: Specifies the internal forwarding port of application images. 9000: Allows external access to the application O&M page. 9001: Allows external access to the application management page. 3306: Allows access to MySQL databases.
Domain name	wpwebsite.com	 If the website is only used for personal development or testing, there is no need to add a domain name. If the website is open to the public, add and resolve a domain name for the cloud server.

Procedure

Procedure	Description
Step 1: Purchase a FlexusL Instance	Purchase a FlexusL instance and select the PrestaShop application image.
Step 2: Configure Security Groups	Add inbound security group rules to ensure that the application preinstalled in the image can be accessed.
Step 3: Reset the Password and Log In to the FlexusL Instance	A FlexusL instance does not have an initial password. After creating a FlexusL instance, set a password for the FlexusL instance.
Step 4: Initialize Prestashop	Log in to PrestaShop and select the desired language for the management page.
Step 5: Deploy Prestashop	 On the dashboard, perform the following operations: Manage language packages and set languages Manage modules Back up databases Configure domain names

Step 1: Purchase a FlexusL Instance

- 1. Log in to the FlexusLconsole and click **Buy FlexusL**.
- 2. Specify required parameters for the FlexusL instance.

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Paramet er	Example	Description
Region	CN-Hong Kong	For low network latency and quick resource access, select the region nearest to your target users. After a FlexusL instance is created, the region cannot be changed. Exercise caution when selecting a region.
Applicati on Image	PrestaShop	Select the PrestaShop application image.
Instance Specificat ions	2 vCPUs 2 GiB System disk 60 GiB	Select instance specifications as needed.
Instance Name	PrestaShop -Example	Customize an instance name that is easy to identify, for example, PrestaShop-Example.
(Optional)• Data Disk: 10Associate d Services• Host Security• Cloud backup vault: 70 GiB		You can bundle any of EVS, HSS (basic edition), and CBR to your FlexusL instances as needed and set specifications as needed.

Paramet er	Example	Description
Required Duration	1 month	The minimum duration of a purchase is one month and the maximum duration is three years.
		Auto-renew is enabled by default, which means the purchased FlexusL instances will be automatically renewed before they expire. If you do not enable auto-renew during the purchase process, you can still enable it later after the instances are created. For more information about auto-renewal rules, see Auto-Renewal Rules .
Quantity	1	Set the number of FlexusL instances to be purchased.

- 3. Click **Buy Now** and complete the payment as prompted.
- 4. Go back to the FlexusL console and view the purchased FlexusL instance.

Step 2: Configure Security Groups

Add inbound security group rules to ensure that the application preinstalled in the image can be accessed.

- 1. Log in to the FlexusL **console** and click a resource card to go to the instance details page.
- 2. In the navigation pane on the left, choose **Cloud Servers**. Locate the server and click its name.

	Add44 • Running
Cloud Servers	Cloud Servers
EVS Disks	
Cloud Backup Vaults	
⊘ Host Security	hcss_ecs_4d44 ID: eb0fa7c2-76f6-4fe

3. On the **Security Groups** tab, click **Add Rule**. In the displayed dialog box, add rules displayed in the following figure and click **OK**.

The following figure only displays common rules. You can add more rules as needed.

Prior ity	Acti on	Туре	Protocol & Port	Source	Description
1	Allo w	IPv4	TCP: 80	0.0.0.0/0	Specifies the internal forwarding port of application images
1	Allo w	IPv4	TCP: 3306	0.0.0.0/0	Allows access to MySQL databases.
1	Allo w	IPv4	TCP: 9000	0.0.0.0/0	Allows external access to the application O&M page.
1	Allo w	IPv4	TCP: 9001	0.0.0/0	Allows external access to the application dashboard.

Table 4-7 Security group rules

Step 3: Reset a Password

A FlexusL instance does not have an initial password. After creating a FlexusL instance, set a password for the FlexusL instance. The password of the FlexusL instance is also used for **logging in to the O&M page of the application**.

1. In the **Image** area on the **Overview** page of the FlexusL console, click **Access** to go to the application dashboard and check whether the application has been up and running. If yes, go to the next step.

NOTICE

Wait for several minutes until the image with the pre-installed application is up and running. Then, you can perform operations such as restarting or stopping the instance, or resetting the password. Otherwise, the initial password may become invalid and you cannot log in to the application dashboard.

Figure 4-10 Entry to the application dashboa	ard
--	-----

Bit Orientiew Image: Cloud Servers Image: EVS Dials Image: Cloud Backup Vaults Host Security	Resource Overview Proces Rev Usage Guidences Proces Rev Usage Guidences Proces Rev Usage Guidences Proces Rev Usage Guidences Proces Rev Usage Guidences Proces Rev Usage Guidences Proces Rev Usage Guidences Proces Rev Usage Guidences Proces Rev Usage Guidences Proces Rev Usage Guidences Proces Rev Pro
	Data Package Network 400.0 m 0.0 m Asken 0% 0% 0%
	Server Image Lean nor > https://www.image.com/completer/

NOTICE

When you click **Access** to go to the dashboard for the <u>first time</u>, PrestaShop generates a random character string following the dashboard address for encryption. <u>Keep the encrypted dashboard address in mind. You can only use the encrypted address to log in to the dashboard and cannot access the dashboard from the console.</u>

For example, when you access the management console http://1.1.1.1:9001/ admin for the first time, the address automatically changes to http:// 1.1.1.1:9001/admin**923reep1k/index**....., where the character string **923reep1k** is added after **admin**. Keep the address http://1.1.1.1:9001/ admin**923reep1k** in mind. (You do not need to record the part following **admin923reep1k**/)

You can also reinstall the FlexusL instance to obtain the new dashboard address, but the original data will be lost. Therefore, keep the encrypted address in mind.

After the application is started, the initialization wizard page of the dashboard is displayed, as shown in **Figure 4-11**.

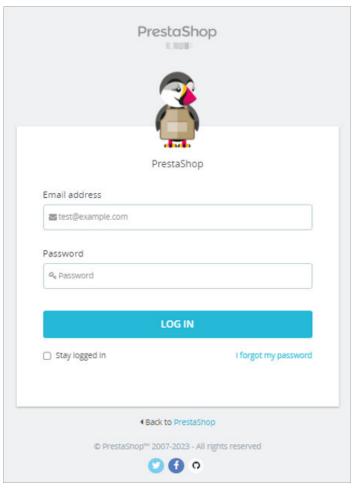


Figure 4-11 Initialization wizard page of the Prestashop dashboard

NOTE

If the dashboard is not properly displayed, check the following causes:

- The port for accessing the dashboard is not allowed. Check whether the port is allowed based on **Step 2: Configure Security Groups**.
- The dashboard is being started. Try again later.
- 2. Locate the resource card and choose > **Reset Password** to reset the password.

For details, see **Resetting the Password for a FlexusL Instance**.

Figure 4-12 Resetting a password

FlexusL (1)	
Batch operation ⑦	
• Running CN East-	unnen de consentent (n.
	Stop Restart Reset Password Upgrade

The password for logging in to the FlexusL instance is also the password for logging in to the O&M page of the application.

Step 4: Initialize Prestashop

Application images use code-based Ubuntu. They provide graphical user interfaces to make your operations easier. You need to initialize the application dashboard upon the first login. Then you can directly log in to the dashboard from the FlexusL console afterwards.

1. In the address bar of a local browser, enter **http://***<Server-EIP***>:9000** to log in to the application O&M page.

The initial username and password for logging in to the application dashboard are stored on the O&M page of the application. You need to log in to the O&M page first to obtain the username and password. The username

for logging in to the O&M page is **root**, and the login password is the password reset in **2**.

NOTE

For details about the FlexusL instances, O&M page, and dashboard, see **What Is the Relationship Among FlexusL Instances, the Dashboard, and the O&M Page?**

2. On the **My Apps** page, click the application icon, choose **Access**, and click **Initial Account** to view the username and password for logging in to the application management page.

The initial password is a randomly generated strong password. After the application is initialized, change the password on the dashboard for easy management. If the password is changed, the initial password will be invalid. Remember the new password.

root@ hcss-ecs-e139					
Q Search					
System					
Overview					
App Store		No Domain Access			
My Apps		No domain name can temporarily acce	ss the application by IP + port		
Containers		Frontend:	10 100 0001		
Gateway					
Git					
Navigator	[Initial Account	an administrator account, please change the administrato		immediate). The initial contactials are
Terminal		The appreciation of pre-configurate with	in particular account, paras charge its administration	, passion	internet, the time coordinate are.
Tools		Administrator UserName	root		
Services		Oserwame			
Logs		Administrator Password		۲	

3. On the **Overview** page, click **Access** in the **Dashboard** field in the **Image** area.

Cloud Servers	Resource Overview & Process Flow © Usage Guidement
EVS Disks Cloud Backup Vaults Host Security	Cool Intervo 1 Desitiv Volume _ Settic P Settic Volume _ Settic P Settic Volume _ Settic P I Dead Data P I Dead D
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	Server Insge Leer nor > hos,cs_thic & Running C Annol Lage & Charge Security Graup More >

NOTE

If the dashboard is not properly displayed, check the following causes:

- The port for accessing the dashboard is not allowed. Check whether the port is allowed based on **Step 2: Configure Security Groups**.
- The dashboard is being started. Try again later.
- 4. Enter the password obtained in 2.

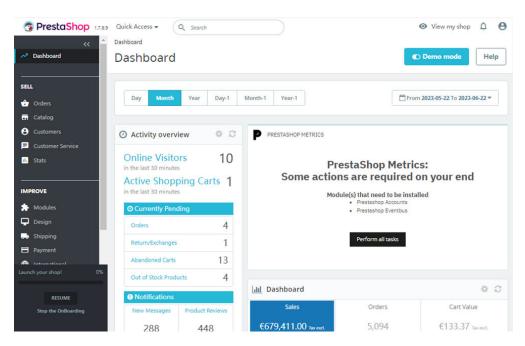
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stest@example.com	
Password	
Re Password	
ια	DG IN
 Stay logged in 	I forgot my password
< Back to	PrestaShop
© PrestaShop** 2007-	2023 - All rights reserved
	A 0

Figure 4-13 Initialization wizard page of the Prestashop dashboard

NOTE

If a message is displayed indicating that the username or password you entered is invalid when you attempt to log in to the application dashboard, refer to Why Can't I Access the Dashboard of the Application Pre-installed in the Application Image After Entering the Initial Username and Password?

5. Click **LOG IN** to log in to PrestaShop.



After the Prestashop application is initialized, you can deploy your applications on the dashboard.

Step 5: Deploy Prestashop

This section describes some basic operations of PrestaShop. For more information, see **PrestaShop Documentation**.

Managing Language Packages

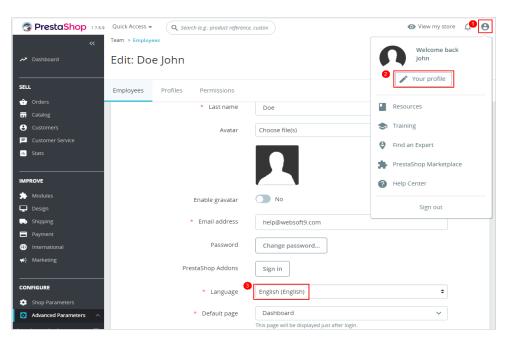
PrestaShop has a built-in multi-language system. You only need to select the corresponding language and import it to your PrestaShop system online.

- Import a language package.
 - a. Choose **IMPROVE** > **International** > **Localization**, select the language package you want to import, and click **Import**.

*	Localization		
	Localization		Help
stit	Localization Languages Currencies Geolocation		
👉 Orders	Import a localization pack		
Catalog Customers			
Customer Service	 Localization pack you want to import 	China	
👪 Stats	* Content to import	States	
IMPROVE		Z Taxes	
		Currencies	
Modules		🔽 Languages	
Design		✓ Units (e.g. weight, volume, distance)	
Payment		Change the behavior of the price display for groups	
International Cocalization Locations Taxes Translations	* Download pack data	C Yes: If yes to yee them the localization paids will be downloaded from prescabling com. Otherwise the local end for found in the localization lobber of your Prescabling installation will be used.	
₩: Marketing			Import

- b. Click the **Languages** tab to view the language packages that have been imported.
- Set the language of the dashboard.

Click the avatar on the right corner, select **Your profile** and set the language. Click **Save**.



• Delete a language package.

You can delete unnecessary language packages.

a. Choose International > Localization > Languages and disable the language package you want to delete.

PrestaShop 1.789	Quick Access 👻 Localization > Lan		, Search (e.g.: product	reference, cus	ton			View my :	store 🗘 😝
Dashboard	Language	es						🕀 Add new languaş	Help
SELL	Localization	Lang	uages Currei	ncies (Seolocation				
🗘 Orders									
- Catalog	🗸 The sta	tus ha	s been successfully	updated.					×
Customers									
Customer Service	Customer Service Customer Service When you delete a language, all related translations in the database will be deleted.								
IMPROVE	Languages (2	:)							۵
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Localization Locations	1	Courte	English (English)	en	en-us	m/d/Y	m/d/Y H:i:s		Delete
Taxes Translations	2	302	(Arabic) اللغة العربية	ar	ar-sa	Y-m-d	Y-m-d H:I:s		/

b. In the **Actions** list, click **Delete** to delete the language that is disabled.

Managing Modules

PrestaShop has a rich module library, which greatly expands the functions of PrestaShop.

 Choose Modules > Marketplace, find the required plug-in, and click Buy Now or Install to purchase and install the module.

You can also click **Upload a module** to install other modules.

- Choose Modules > Module Manager.
 - On the **Modules** tab page, you can disable, configure, uninstall, and restore the modules.

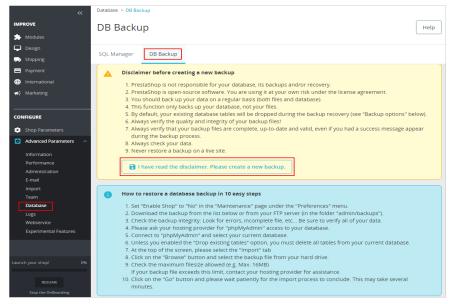
- On the **Alerts** tab page, you can view the notifications of modules.
- On the **Updates** tab page, you can view modules that can be updated.

Backing Up Databases

PrestaShop allows you to back up databases.

In the navigation pane on the left, choose Advanced Parameters > Database
 > DB Backup, read the disclaimer, and click I have read the disclaimer.
 Please create a new backup.

You can follow the instructions on the following page to restore a database.



2. Click **Download the backup file** to download the backup file to your local PC.

Configuring Domain Names

Add and resolve a domain name for the website so that users can use the domain name to access the website. If the website is only used for personal development or testing, there is no need to add a domain name.

- 1. If the domain name is not registered with Huawei Cloud or not hosted on Huawei Cloud DNS, the domain name cannot be resolved. Use either of the following methods to resolve the issue:
 - Contact the DNS service provider to add an A record that maps the domain name to the EIP of the FlexusL instance.
 - Use Huawei Cloud DNS servers to resolve the domain name. For details, see Migrating to Huawei Cloud DNS for Domain Name Resolution.
- 2. Add the domain name on the application O&M page.
 - a. In the address bar of a local browser, enter **http://***EIP***.9000** to log in to the application O&M page.

The username and password for logging in to the dashboard are the **root** user and password of the FlexusL instance. A FlexusL instance does not have an initial password. Reset the password and use it to log in to the dashboard.

- b. Choose **My Apps** and click the App icon.
- c. Choose **Access** and click **Add Domain**.

Q Search	
System	
Overview	
App Store	Overview
My Apps	Access Domain Access
Containers	Container Access the domain name for better application performance, https and custom configuration can click more
Gateway	Volumes Add Domain
Git	Compose
Navigator	Uninstall

3. Apply for ICP licensing for the domain name.

To successfully access the server using a domain name, you must license the domain name. Domain name licensing provided by the ICP License Service is free of charge. For details, see **ICP Filing Process**.

After the domain name is licensed, you can use it to visit the website.

4.4 Audio and Video Scenarios

4.4.1 Pushing Local PC Desktop Streams to SRS Using OBS

Application Scenario

SRS is a simple and an efficient real-time video server that supports various realtime streaming media protocols, such as RTMP, WebRTC, HLS, HTTP-FLV, and SRT. Supported By FlexusL, the SRS image uses Ubuntu 22.04 and is deployed using Docker. The Nginx and Docker have been preconfigured in the image. This section describes how to push PC desktop streams to SRS using OBS.

Resource Planning and Costs

This practice uses the following resource planning as an example. You can adjust it as required.

Resource	Configuration	Description
Cloud server	vCPUs: 2Memory: 4 GiB	Select appropriate instance specifications based on your service requirements.
Image	SRS	Select the SRS application image.

Resource	Configuration	Description
Security group	 Inbound rule: Protocol & Port TCP: 80, 9001, 1935, 1985, 8080, 8000 Source: 0.0.0.0/0 Protocol & Port ICMP: all Source: 0.0.0.0/0 	 80: Specifies the internal forwarding port of application images. 9001: Allows external access to the application management page. 1935: Allows access to the RTMP livestreaming server. 1985: Allows access to the HTTP API server to deliver HTTP-API and WebRTC streams. 8080: Allows access to the HTTP livestreaming server to deliver HTTP-FLV and HLS streams. 8000: Allows access to the WebRTC media server.
Domain name	wpwebsite.com	 If the website is only used for personal development or testing, there is no need to add a domain name. If the website is open to the public, add and resolve a domain name for the cloud server.

Process

Procedure	Description
Step 1: Purchase a FlexusL Instance	Purchase a FlexusL instance and select the SRS application image.
Step 2: Configure Security Groups	Add inbound security group rules to ensure that the application preinstalled in the image can be accessed.
Step 3: Reset the Password and Log In to the FlexusL Instance	A FlexusL instance does not have an initial password. After creating a FlexusL instance, set a password for the FlexusL instance before logging in to it.
Step 4: Learn About the SRS Dashboard	Understand the SRS working interface.
Step 4: Push Local PC Desktop Streams to SRS Using OBS	Learn how to push local PC desktop streams to SRS using OBS.

Step 1: Purchase a FlexusL Instance

- 1. Log in to the FlexusLconsole and click **Buy FlexusL**.
- 2. Specify required parameters for the FlexusL instance.

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6.8.20	4.4	2.19.4	8.1.8	28.0.3	16.0.3	17.4	3.5.1	1.1.1	
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Paramet er	Exampl e	Description
Region	CN- Hong Kong	For low network latency and quick resource access, select the region nearest to your target users. After a FlexusL instance is created, the region cannot be changed. Exercise caution when selecting a region.
Applicati on Image	SRS	Select the SRS application image.
Instance Specificat ions	2 vCPUs 4 GiB memory and 80 GiB system disk	Select instance specifications as needed.
Instance Name	SRS- Example	Customize an instance name that is easy to identify, for example, SRS-Example.

Paramet er	Exampl e	Description
(Optional) Associate d Services	 Data disk: 10 GiB Host securi ty Cloud back up vault: 90 GiB 	You can bundle any of EVS, HSS (basic edition), and CBR to your FlexusL instances as needed and set specifications as needed.
Required Duration	1 month	The minimum duration of a purchase is one month and the maximum duration is three years. Auto-renew is enabled by default, which means the purchased FlexusL instances will be automatically renewed before they expire. If you do not enable auto-renew during the purchase process, you can still enable it later after the instances are created. For more information about auto-renewal rules, see Auto-Renewal Rules.
Quantity	1	Set the number of FlexusL instances to be purchased.

- 3. Click **Buy Now** and complete the payment as prompted.
- 4. Go back to the FlexusL console and view the purchased FlexusL instance.

Step 2: Configure Security Groups

Add inbound security group rules to ensure that the application preinstalled in the image can be accessed.

- 1. Log in to the FlexusL **console** and click a resource card to go to the instance details page.
- 2. In the navigation pane on the left, choose **Cloud Servers**. Locate the server and click its name.

Ø	Region CN-Hong Kong 2 vCPU Constance ID 664c5e
Cloud Servers	Cloud Servers
EVS Disks	
Cloud Backup V	
⊘ Host Security	hcss_ecs_4d44 ID: eb0fa7c2-76f6-4fe i Running 2 vCPU

3. On the **Security Groups** tab, click **Add Rule**. In the displayed dialog box, add rules displayed in the following figure and click **OK**.

The following figure only displays common rules. You can add more rules as needed.

Prio rity	Acti on	Typ e	Protoc ol & Port	Sour ce	Description
100	Allo w	IPv 4	TCP: 9001	0.0.0. 0/0	Allows external access to the application dashboard.
100	Allo w	IPv 4	TCP: 1935	0.0.0. 0/0	Allows access to the RTMP livestreaming server.
100	Allo w	IPv 4	TCP: 1985	0.0.0. 0/0	Allows access to the HTTP API server to deliver HTTP-API and WebRTC streams.
100	Allo w	IPv 4	TCP: 8080	0.0.0. 0/0	Allows access to the HTTP livestreaming server to deliver HTTP- FLV and HLS streams.
100	Allo w	IPv 4	TCP: 8000	0.0.0. 0/0	Allows access to the WebRTC media server.

Table 4-8 Security group rules

Step 3: Reset the Password and Log In to the FlexusL Instance

This section describes how to log in to a FlexusL instance. A FlexusL instance does not have an initial password. After creating a FlexusL instance, set a password for the FlexusL instance before logging in to it.

1. In the **Image** area on the **Overview** page of the FlexusL console, click **Access** to go to the application dashboard and check whether the application has been up and running. If yes, go to the next step.

NOTICE

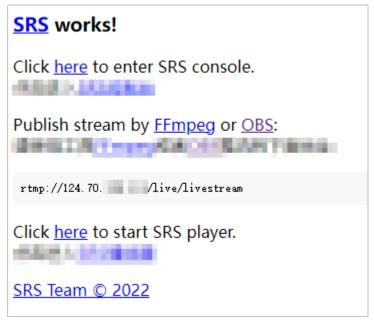
Wait for several minutes until the image with the pre-installed application is up and running. Then, you can perform operations such as restarting or stopping the instance, or resetting the password. Otherwise, the initial password may become invalid and you cannot log in to the application dashboard.

Figure 4-14 Entry to the application dashboard

Cloud Servers EVS Daks Cloud Backup Vaults Host Security	Resource Overview Elset: Volume Out Inductor 1 1 Symmetric 1	Precess Per Busic Wares Cood Bockup a Hot Security S Hot Security S Back Ellion
	Data Package 400.0 ma 0.0 cm 0% Assess 0%	Network ロル 1003年1月日 グ Proc Databases 3.5605
	Server $eq:control of the second of $	Image Lean nove > website of several constant of these Website incompany and these constant of these Website incompany and these of Anne

After the application is started, the initialization wizard page of the dashboard is displayed, as shown in **Figure 4-15**.





NOTE

If the dashboard is not properly displayed, check the following causes:

- The port for accessing the dashboard is not allowed. Check whether the port is allowed based on **Step 2**: **Configure Security Groups**.
- The dashboard is being started. Try again later.
- 2. Locate the resource card and choose > **Reset Password** to reset the password.

A FlexusL instance does not have an initial password. Set a password for the FlexusL instance before logging in to it. For details, see **Resetting the Password for a FlexusL Instance**.

FlexusL (1)
Batch operation ⑦

Running | CN East-Shanghai1
In use, 31 days until expirat...
Remote Login Renew ...
Stop
Restart
Reset Password
Upgrade

Figure 4-16 Resetting a password

3. Locate the target instance and click **Remote Login** and enter the username and password as prompted to log in to the FlexusL instance.

The username is **root**, and the password is the one set in **2**.

Flexus L Ins	tance (1)	
Q Search or	filter by name.	
FlexusL (1)		
Batch o	peration ⑦	
	• Running CN North-Beijing4	
EIP:1	Private IP:1	
In use, 31	days until expirat 🔲 Remote Login 🗔 Renew \cdots	

Step 4: Learn About the SRS Dashboard

Application images are based on the Ubuntu OS of the code page. You can log in to the **visualized dashboard** to configure applications easily.

1. In the **Image** area on the **Overview** page of the FlexusL console, click **Access** to go to the application dashboard.

B: Overview Image: Cloud Servers Image: Cloud Backup Vaults Image: Hoat Security	Resource Overview Cloud Instance 1 System Dat 1 System Dat 1 1 1 1 1 1 1 1 1	Process Fixe Butset Warme Cloud Backage A Fit Security S 1 Data Data
	Data Package 400.010 0.010 Annual 0.017 01.	Network ΕΠ 100.02.845 σ Prox Euronetti 3 Mitris
	Server • hos_cc_ttl* 0 Reneg ☐ Renel Lap & Cange Security Group Hore ∨	Image Learn now 3 webbilite-sciences (Sonically) 0.0533 Deboler Deboler thp://million.illing.clim.dl (C.Axee) Webbilite-sciences (C.Axee) Axee

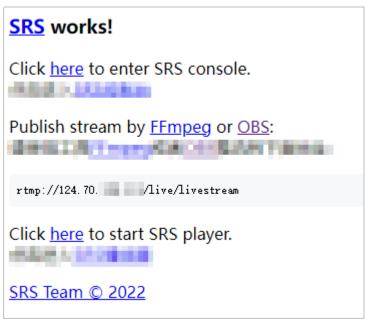
If the dashboard is not properly displayed, check the following causes:

- The port for accessing the dashboard is not allowed. Check whether the port is allowed based on **Step 2: Configure Security Groups**.
- The dashboard is being started. Try again later.
- 2. Check the SRS dashboard.

You do not need to set the username and password for logging in to SRS. On the SRS dashboard, you can:

- Log in to the SRS console.
- Obtain the ingest URL.
- Start SRS player to watch the livestreaming content.

Figure 4-17 Initial page of the SRS dashboard



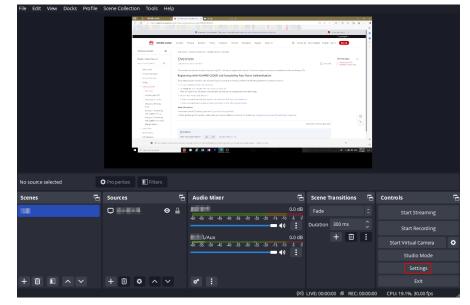
After the SRS application is set up, you can use SRS to push and watch livestreams.

Step 4: Push Local PC Desktop Streams to SRS Using OBS

This section describes how to push local PC desktop streams to SRS using OBS.

Step 1: Push Livestreams

- 1. **Download** and install OBS based on your operating system.
- 2. Open OBS tool and click **Settings** in the **Controls** area.



3. On the Stream page, configure parameters and click Apply.

🗘 General	Service	Custom	¢
የም ⁾ Stream	Server	rtmp://124.70. :/live/	
🔓 Output	Stream Key 🧿	livestream	Hide
(I) Audio			_
💭 Video			
🕮 Hotkeys		Use authentication	
Accessibility	Username 📀	admin	
🛠 Advanced			
	Password 📀		Show
		OK Cancel	Apply
		UK Cancer	Apply
Parameter	Descriptio	on	
Service	Multiple platforms can push livestreams via OBS. For SRS select Custom .		

Parameter	Description
Stream key	Specify a character string following the specified stream pushing address, for example, the livestream following live/ in rtmp://124.70.x.x/live/ .
Use authentication	Select Use authentication and set the Username and Password .

SRS works!
Click <u>here</u> to enter SRS console.
Publish stream by <u>FFmpeg</u> or <u>OBS</u> :
rtmp://124.70. /live/livestream
Click <u>here</u> to start SRS player.
SRS Team © 2022

4. In the **Output** page, configure parameters and click **Apply**.

Set **Video Bitrate** to **1000 kbps**. Select **Software** for **Video Encoder** to avoid the need for high-end graphics cards and prevent potential streaming issues. Configure other parameters as needed.



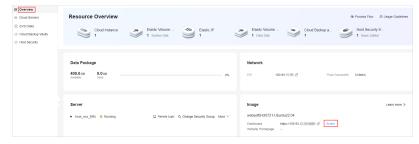
- 5. Click OK.
- 6. In the displayed **Sources** area, click +, select **Display Capture**, create a source, and click **OK**.

			P Create/Select Source X
4	Properties	Filters	O Create new
2	Sources	C	Add Existing
	<u>(?</u>)		
	You don't have any sources. Click the + button below, or right click here to add one.		Make source visible OK Cancel
	+ 🔟 🗘	<u>^ v</u>	o° :

- 7. Perform any operation to change the desktop screen, and you can see that the screen starts to capture desktop content. Click **OK**.
- 8. Click **Start Streaming**. After the connection is successful, a green block is displayed in the lower right corner, indicating that the stream pushing is successful.

Step 2: Watch Livestreams

- 1. Log in to the FlexusL **console** and click a resource card to go to the instance details page.
- 2. On the **Overview** page, in the **Image** area, click **Access** to access the image application dashboard.



3. Start SRS player.

SRS works!
Click here to enter SRS console.
Publish stream by <u>FFmpeg</u> or <u>OBS</u> :
rtmp://124.70. /live/livestream
Click <u>here</u> to start SRS player.
SRS Team © 2022

4. Watch the desktop livestreams.

4.5 Website Data Analysis

4.5.1 Using Superset to Obtain Data from MySQL for Analysis

Application Scenario

Superset is an open-source data exploration and visualization platform. This tool provides a quick way to intuitively visualize datasets by allowing you to create and share interactive dashboards. Supported By FlexusL, the Superset application image uses Ubuntu 22.04 and is deployed using Docker. The Nginx, Redis, pgAdmin, and Docker have been preconfigured in the image. This section describes how to use Superset to obtain data from MySQL databases for analysis.

Resource Planning and Costs

This practice uses the following resource planning as an example. You can adjust it as required.

Resource	Configuration	Description
Cloud server	vCPUs: 2 Memory: 8 GiB	A Superset application image requires at least 2 vCPUs and 8 GiB of memory. Select appropriate instance specifications accordingly.
Image	Superset	Select the Superset application image.

Resource	Configuration	Description
Security group	Inbound rule: • Protocol/ Application: TCP • Port: 80, 9000, 9001, 3306 • Source: 0.0.0.0/0	 80: Specifies the internal forwarding port of application images. 9000: Allows external access to the application O&M page. 9001: Allows external access to the application management page. 3306: Allows access to MySQL databases.

Procedure

Procedure	Description
Step 1: Purchase a FlexusL Instance	Purchase a FlexusL instance and select the Superset application image.
Step 2: Configure Security Groups	Add inbound security group rules to ensure that the application preinstalled in the image can be accessed.
Step 3: Reset the Password and Log In to the FlexusL Instance	A FlexusL instance does not have an initial password. After creating a FlexusL instance, set a password for the FlexusL instance.
Step 4: Initialize Superset	Set the language, log in to Superset, and reset the password.
Step 5: Obtain Data from MySQL Databases for Analysis	To use Superset to obtain data from MySQL databases for analysis, you need to connect to a database, add datasets, and create charts.

Step 1: Purchase a FlexusL Instance

- 1. Log in to the FlexusLconsole and click **Buy FlexusL**.
- 2. Specify required parameters for the FlexusL instance.

	OS Images Private										
Website set.	p Development too	n Cross-bonder e-commu	rce Enterprise s	ppications Pe		ia Audo and	adato Estat Odeo		5 Superset	alk Matore	
6.8.35	6.4	2.92.4	8.1.5	28.0.9		16.9.3	17.0		211	50.9	
983 583	CC Rectrine	Node ja	E Moode	Kotos		Joomia	Circuit Circuit		Especient		
6.0.101	5.1 Uburtu 22.04 server 64	21	43.4	1.49		8.0.3	0.67		8.0		
Superset domeity s web application.	nown as Panoramix and C	taravet is an open source data									
kery image. The se	lected image is from KooG	allery and provided by a third pa	ity. Ensure that you have	re read and agree to 9	ie third-party	service agreements b	arkarpiace EULA and	Marketplace Term	 The involce for f 	to image will be bound by	the third-party provi
ce Specification											
2 vCPU	8 GiB	😨 4 vCPU	8 GiB	9 4	VCPU	16 GIB					
em Disk	160 GIB	System Disk	540 GIB	System Dak		11 6 10					
Dandwidth Package	00 Mbps 6.129 GB		33 Mbps 6.144 GB	Peak Dandwi Data Packag		Maps 168 GB					
9.00 USD #		\$59.00 USD m		\$79.00							
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ess outbound traffic	out of the package will be	billed by ballic and persents ad	ditional costs. Learn n	ove 62							
val) instance Na	**										
sel Compie)		In a belich creation, a higher fo	loved by an incremental ne	mber is added in the end	of each instance	name by default.					
Data Disk (B		redundancy and cache acceler							0.00	acry 1008 \$1	.91 USD more
Host Securi	y (HSS Basic Editic	m)									
Providen weak p	assword detection and sca	na for vulnerabilities, brute-force	attacks, and unauthoria	ad logins.						5	.50 USD (month
	ip Vault (CBR)										
	ape data backap function						Vault Cap	roly 17068	Backup Policy	defaultPolicy \$	12 USD month
Provides easy-to											
Provides easy-k											
Provides easy-to											

Paramet er	Example	Description
Region	CN-Hong Kong	For low network latency and quick resource access, select the region nearest to your target users. After a FlexusL instance is created, the region cannot be changed. Exercise caution when selecting a region.
Applicati on Image	Superset	Select the Superset application image.
Instance Specificat ions	2 vCPUs 8 GiB memory	Select instance specifications as needed.
Instance Name	Superset-Example	Customize an instance name that is easy to identify, for example, Superset-Example.
(Optional) Associate d Services	 Data disk: 10 GiB Host security Cloud backup vault: 170 GiB 	You can bundle any of EVS, HSS (basic edition), and CBR to your FlexusL instances as needed and set specifications as needed.

Paramet er	Example	Description
Required Duration	1 month	The minimum duration of a purchase is one month and the maximum duration is three years.
		Auto-renew is enabled by default, which means the purchased FlexusL instances will be automatically renewed before they expire. If you do not enable auto-renew during the purchase process, you can still enable it later after the instances are created. For more information about auto- renewal rules, see Auto-Renewal Rules .
Quantity	1	Set the number of FlexusL instances to be purchased.

- 3. Click **Buy Now** and complete the payment as prompted.
- 4. Go back to the FlexusL console and view the purchased FlexusL instance.

Step 2: Configure Security Groups

Add inbound security group rules to ensure that the application preinstalled in the image can be accessed.

- 1. Log in to the FlexusL **console** and click a resource card to go to the instance details page.
- 2. In the navigation pane on the left, choose **Cloud Servers**. Locate the server and click its name.



3. On the **Security Groups** tab, click **Add Rule**. In the displayed dialog box, add rules displayed in the following figure and click **OK**.

The following figure only displays common rules. You can add more rules as needed.

Prior ity	Acti on	Туре	Protocol & Port	Source	Description
1	Allo w	IPv4	TCP: 80	0.0.0.0/0	Specifies the internal forwarding port of application images
1	Allo w	IPv4	TCP: 3306	0.0.0.0/0	Allows access to MySQL databases.
1	Allo w	IPv4	TCP: 9000	0.0.0.0/0	Allows external access to the application O&M page.
1	Allo w	IPv4	TCP: 9001	0.0.0/0	Allows external access to the application dashboard.

 Table 4-9 Security group rules

Step 3: Reset a Password

A FlexusL instance does not have an initial password. After creating a FlexusL instance, set a password for the FlexusL instance. The password of the FlexusL instance is also used for logging in to the O&M page of the application.

1. In the **Image** area on the **Overview** page of the FlexusL console, click **Access** to go to the application dashboard and check whether the application has been up and running. If yes, go to the next step.

NOTICE

Wait for several minutes until the image with the pre-installed application is up and running. Then, you can perform operations such as restarting or stopping the instance, or resetting the password. Otherwise, the initial password may become invalid and you cannot log in to the application dashboard.

Figure 4-18 Entry to the application dashboard	Figure 4-1	8 Enti	y to the	e application	dashboard
--	------------	--------	----------	---------------	-----------

Si Overview	
Cloud Servers	Resource Overview & Process Row D Usage Guidelines
EVS Diaks Cloud Backup Vaults Host Security	Second Instance Second Statute - Second
	Data Pachage Network 400.0 cs Australian Used 0% 0P N02 bit Hill (C Plus Danhellin 3 Mdds
	Server Lean nor > intage Lean

After the application is started, the initialization wizard page of the dashboard is displayed, as shown in **Figure 4-19**.

Sign In
Enter your login and password below: USERNAME:
Admin PASSWORD:
••••••••••••••••••••••••••••••••••••
SIGN IN

NOTE

If the dashboard is not properly displayed, check the following causes:

- The port for accessing the dashboard is not allowed. Check whether the port is allowed based on **Step 2: Configure Security Groups**.
- The dashboard is being started. Try again later.
- 2. Locate the resource card and choose > **Reset Password** to reset the password.

For details, see **Resetting the Password for a FlexusL Instance**.

Figure 4-20 Resetting a password

FlexusL (1)
Batch operation ⑦
Running CN East-Shanghai1
The Part (10) 100 (0.000 - 0.000 (0.000 - 0.000 (0.000 - 0.000)))
er en anna di magar na marar di
In use, 31 days until expirat 🔲 Remote Login 🗔 Renew \cdots
Stop
Restart
Reset Password
Upgrade

D NOTE

The password for logging in to the FlexusL instance is also the password for logging in to the O&M page of the application.

Step 4: Initialize Superset

Application images use code-based Ubuntu. They provide graphical user interfaces to make your operations easier. You need to initialize the application dashboard upon the first login. Then you can directly log in to the dashboard from the FlexusL console afterwards.

1. In the address bar of a local browser, enter **http://***<Server-EIP***>:9000** to log in to the application O&M page.

The initial username and password for logging in to the application dashboard are stored on the O&M page of the application. You need to log in to the O&M page first to obtain the username and password. The username for logging in to the O&M page is **root**, and the login password is the password reset in **2**.

NOTE

For details about the FlexusL instances, O&M page, and dashboard, see What Is the Relationship Among FlexusL Instances, the Dashboard, and the O&M Page?

2. On the **My Apps** page, click the application icon, choose **Access**, and click **Initial Account** to view the username and password for logging in to the application management page.

The initial password is a randomly generated strong password. After the application is initialized, change the password on the dashboard for easy management. If the password is changed, the initial password will be invalid. Remember the new password.

root@ hcss-ecs-e139	
Q Search	
System	
Overview	
App Store	No Domain Access
My Apps	No domain name can temporarily access the application by IP - port
Containers	Frontend:
Gateway	
Git	
Navigator	Initial Account This application is pre-configured with an administrator account, please change the administrator possword immediately. The initial credentials are
Terminal	
Tools	Administrator root UserName
Services	Administrator 🛛 🐨
Logs	Password

3. In the **Image** area on the **Overview** page of the FlexusL console, click **Access** to go to the application dashboard.

83 Overview Cloud Servers EVS Disks Cloud Backup Vauits Host Security	Resource Overview @ Process Flow ® Usage Guideline Sourd Instance Sector Process Flow Basic Color Basic Color 1 1 Sector Process Flow Basic Color
	Data Package Network 40.0 data 0.0 data <t< td=""></t<>
	Sarver Intege Lean nor > The set of Remain Law & Charge Security Deep More And

D NOTE

If the dashboard is not properly displayed, check the following causes:

- The port for accessing the dashboard is not allowed. Check whether the port is allowed based on **Step 2: Configure Security Groups**.
- The dashboard is being started. Try again later.
- 4. Enter the username and password obtained in **2** to access the dashboard. You can set the language on the login page or on the management page.

Figure 4-21 Initialization wizard page of the Superset dashboard

Sign In					
Enter your login and password below	OW:				
USERNAME:					
admin					
PASSWORD:					
a					
SIGN IN					

NOTE

If a message is displayed indicating that the username or password you entered is invalid when you attempt to log in to the application dashboard, refer to Why Can't I Access the Dashboard of the Application Pre-installed in the Application Image After Entering the Initial Username and Password?

5. In the upper right corner of the page, choose **Settings** > **User** > **Info** and click **RESET MY PASSWORD**.

Preset passwords are usually difficult to remember, so you are advised to set a password that is easy to remember, and please keep it safe.

Superset Dashboards Charts	SQL Lab • Data •		Settings •
	Your user information	n	Security
	User info v	List Users	
	User Name	admin	List Roles Row Level Security
	Is Active?	True	Action Log
	Role	[Admin]	Manage
	Login count	1	Annotation Layers
			CSS Templates
	Personal Info v		Alerts & Reports
	First Name	Superset	User
	Last Name	Admin	Profile
	Email	admin@superset.com	Info
			Logout
	A RESET MY PASSWOP		About Version: 2.0.1

After the Superset application is initialized, you can deploy your applications on the dashboard.

Step 5: Obtain Data from MySQL Databases for Analysis

This section describes some basic operations of Superset. For more information, see **Superset Documentation**.

Step 1: Connect to Database

You can only analyze data after connecting to a database first.

- 1. On the management page, choose **Data** > **Databases** and click **+DATABASE**.
- 2. Select the database to be connected, for example, the MySQL database.
- 3. Enter the information about the database to be connected.

Connect a database							
STEP 2 OF 3 Enter the required MySQL credentials Need help? Learn more about connecting to MySQL.							
HOST * 🕤		PORT *		_			
122.112.		3306		_			
DATABASE NAME *				- 1			
prestashop							
Copy the name of the o	database you	are trying	to connect to.				
USERNAME *							
prestashop							
PASSWORD							
•••••				0			
				- 1			
DISPLAY NAME *							
MySQL							
Pick a nickname for this database to display as in Superset.							
ADDITIONAL PARAMETERS							
e.g. param1=value1¶m2=value2							
Add additional custom parameters							
SSI O							
	BACK		CONNEC	τ			

Table 4-10 Parameter descriptions

Parameter	Description			
HOST/PORT	Specifies the public IP address and port number of the database. The default MySQL port number is 3306.			
DATABASE NAME	Specifies the name of the database to be connected.			
USERNAME/ PASSWORD	Specifies the username and password of the database.			
DISPLAY NAME	Specifies the name displayed on Superset after the database is connected.			

- 4. Click CONNECT.
- 5. Click **FINISH** and you can view the connected database in the list.

Data Databases Dat	tasets Saved queries	Query hist	ory					
EXPOSE IN SQL LAB	AQE Select or type a value		earch Q. Type a va	alue				
Database 🗧		Backend	AQE :	DML :	CSV upload	Expose in SQL Lab	Created by	Last modified 🗧
MySQL		mysql	×	×	×	~	Superset Admin	now
examples		postgresql	×	×	×	~		a day ago

Step 2: Add Datasets

Now that you have configured a data source, you need to register tables (called **Datasets** in Superset) for subsequent chart creation.

1. Choose **Data** > **Datasets** and click +**DATASET**.

ata Databases Data	Saved	queries Query history			BULK SELECT	+ DATASET
WNER	DATABASE	Add dataset		\times	RTIFIED	
	Select or ty	DATABASE				
EARCH		mysql MySQL				
		SCHEMA				
Name = Type	Datab	prestashop			Owners	Action
		SEE TABLE SCHEMA				
		m ps_access				
			CANCEL	ADD		

2. Click **ADD**, and you can view your dataset in the list of datasets.

Step 3: Create Charts

Superset is a powerful visualization builder that allows you to create charts and dashboards. This section is for demonstration only. You can create exquisite charts and dashboards by referring to the **official guide**.

1. Click the database name to visualize the chart.

Dataset	I+	DATA CUSTOMIZE		95 rows 00:00:00.1
public.ab_permission	1.1	Visualization type	id o	AVG(id)
		visualization type	95	95
Search Metrics & Columns		🗠 🎹 TABLE 4k 🕑 🔤 🛤	94	94
Metrics	~	View all charts	93	93
Netrics			92	92
ihowing 1 of 1		Time 🛛 🗸 🗸	91	91
f(x) COUNT(*)		Query	90	90
			89	89
Columns	^	QUERY MODE	88	88
showing 2 of 2		AGGREGATE RAW RECORDS	87	87
# id		DIMENSIONS	86	86
abc name		× # id >	85	85
		+ Drop columns here or click	84	84
			83	83
		METRICS	81	81
		× f(x) AVG(id) >	80	80
		+ Drop columns/metrics here or click	79	79
		PERCENTAGE METRICS	78	78
		+ Drop columns/metrics here or click	,0	10

2. Click **SAVE** to add the chart to the dashboard.

Save chart			\times
Save (Overwrite) Save as			
CHART NAME*			
chart1			
ADD TO DASHBOARD			
Select a dashboard OR create a new	v one		~
	CANCEL	SAVE & GO TO DASHBOARD	SAVE

3. Click **SAVE & GO TO DASHBOARD**. The visualized chart is displayed on the dashboard.

5 Server Migration

5.1 Using Images to Migrate FlexusL Instances to ECSs

Scenarios

A FlexusL instance is a lightweight application server. It is friendly to beginners in cloud computing. However, the instance specifications and functions are limited. If a FlexusL instance does not meet your service requirements, you can change the FlexusL instance to an ECS to obtain more specifications and functions. This practice uses IMS to create an image from a FlexusL instance and then uses the image to quickly create an ECS with the same configurations as the FlexusL instance to the ECS.

The following describes how to migrate a FlexusL instance with Nginx deployed to an ECS using an image.

Resource Planning and Costs

This practice uses the following resource planning as an example. You can adjust it as required.

Resource	Configuration	Description	Cost
Source FlexusL instance	Region: CN North-Beijing4	Resources will be migrated from the source FlexusL instance.	Billing is not involved for existing resources.

Resource	Configuration	Description	Cost
Image	Image name: flexusl-image	If the FlexusL instance contains only a system disk, create a system disk image. If the FlexusL instance also contains a data disk, create a full-server image.	If the FlexusL instance is not associated with a backup vault, a small amount of pay-per- use expenditures are involved during the creation of the full- server image.
ECS	 Region: CN North- Beijing4 ECS name: ecs-flexusl 	The ECS is created using the image.	For details about the expenditures required for purchasing an ECS, see Price Calculator .

Constraints

- The image of the FlexusL instance uses the x86 architecture, so the FlexusL instance can be migrated only to an x86 ECS.
- When migrating the FlexusL instance to an ECS, ensure that the memory of the ECS is greater than or equal to the memory or memory usage of the FlexusL instance. Otherwise, the ECS may be unavailable due to insufficient memory.

Process

Procedure	Description
Step 1: Create a FlexusL Instance Full-Server Image	Create an image from the FlexusL instance and the use the image to quickly provision ECSs with the same configurations.
Step 2: Create an ECS Using an Image	Use the image to create an ECS with the same configurations and verify services.
Step 3: Release Related Resources	Release the source FlexusL instance and the resources generated during the migration.

Step 1: Create a FlexusL Instance Full-Server Image

- 1. On the IMS console, click Create Image.
- 2. Configure image parameters.

age Type and So	ource					
Region	CN North-Beijing4	~				
	Regions are geographic areas isolated from latency and quick resource access, select t	n each other. Resources are region-sp he nearest region.	pecific and cannot be u	sed across regions through in	ternal network connections. For lo	ow netw
Туре	Create Image Import Image	0				
Image Type	System disk image Full-ECS i	mage Data disk image	0			
Source	ECS Cloud Server Backup					
	Before creating an image, configure runs Windows, Learn more A CSBS or cloud server backup will				e-Init is installed if the ECS	
		All statuses	~) (Name V Enter a k	ayword. Q Q	
	Name	OS	Status	Private IP Address	Created	
	✓ ● hcss_ecs_cfeb	Ubuntu 22.04 server 64bit	😑 Running	192.168	Oct 10, 2024 14:58:33	
	✓ hcss_ecs_454d	Ubuntu 22.04 server 64bit	\ominus Running	192.168	Oct 10, 2024 14:57:51	
	✓ ○ cce-example-83955-g0042	Huawei Cloud EulerOS 2	\ominus Running	192.168	Sep 30, 2024 15:48:37	
	CCS-target-02	Huawei Cloud EulerOS 2	Stopped	192.168	Sep 12, 2024 11:25:59	
	CCS-source-01	Huawei Cloud EulerOS 2	Stopped	192.168	Sep 10, 2024 17:23:59	
	CCS-test-03	Huawei Cloud EulerOS 2	Stopped	192.168	Sep 10, 2024 17:23:59	
	Total Records: 8				6 ∽ < 1 2 >	
	Selected: hcss_ecs_cfeb System Disk: u * Server Backup Vault The would in any		erver Backup Vault ③		Cancelo	
	Buy ECS	Clated with the selected ECS. To cha	nge ne vaux, go to un	s cloud Dackup and Recover	Console.	
age Information						
Name	flexusl-image					
Enterprise Project	default	~ Q ()				
Tag	It is recommended that you use TMS's pre-	defined tag function to add the same ta	ag to different cloud re:	sources. View predefined tags	Q	
	Tag key Tou can add 10 more tags.	ag value				
Description						
		0/1,024 #				

Table 5-1 Image parameters

Paramete r	Example Value	Description			
Image Type	Image Type and Source				
Region	CN North- Beijing4	Select the region where the source FlexusL instance is located.			
Туре	Create Image	When creating an image for a server on Huawei Cloud, select Create Image .			
lmage Type	Full-ECS image	 If your FlexusL instance only contains a system disk, select System disk image. System disk images can be created more quickly, and you do not need to pay for server backup vaults. If your FlexusL instance contains both a system disk and a data disk, create a full-server image. 			

Paramete r	Example Value	Description		
Source	On the Servers tab: • Cloud server: hcss_ecs _454d • Server backup vault: flexusl- vault	 Click the Cloud Server tab and perform the following operations: Select the cloud server name of the FlexusL instance where an image is to be created. Server backup vault: Click the drop-down list to select an available vault. If no vault is available, click Create Server Backup Vault to create a vault. For details about the parameters, see Table 5-2. After purchasing a vault, click the refresh button on the right of the selection box and select the vault. NOTE If you create a system disk image, Server Backup Vault is unavailable. 		
Image Information				
Name	flexusl- image	Customize an image name that is easy to be identified.		
Enterprise Project	default	default		

 Table 5-2 Server backup vault parameters

Paramete r	Example Value	Description
Billing Mode	Pay-per-use	Select a cloud server backup billing mode.
Region	CN North- Beijing4	The region is fixed.
Protection Type	Retain the default setting Backup	Backup vaults store the backup data of protected resources.
Applicatio n- Consistent Backup	Retain the default setting to disable this option.	Set this parameter based on the site requirements. It is not enabled by default.

Paramete r	Example Value	Description
Backup Data Redundan cy	Retain the default value Single-AZ .	Select a value based on site requirements. The single-AZ backup is used as an example.
Resources to Back Up	 Configur e hcss_ecs_ 454d 	Associate the cloud server of the FlexusL instance to be backed up with the vault.
Backup Capacity	80 GiB	Set this parameter based on site requirements. The vault capacity must be greater than the capacity of the FlexusL instance to be backed up, or the backup may fail.
Backup Policy	Skip	Set this parameter based on the site requirements. It is not configured in this example
Enterprise Project	default	default
Vault Name	flexusl-vault	In Advanced Settings , you only need to customize the vault name.

3. Click **Next** and create an image as prompted.

Step 2: Create an ECS Using an Image

1. On the **IMS console**, select the created private image **flexusl-image** and click **Apply for Server** in the **Operation** column.

Cloud Server 0. Console	Image Management Service 💿				@ Feedback Counted
lashboard Iventa Isutelashooting (2 INEW)	We is now in commercial use. Any private images of Public images Public images image	ored will be billed according to HMS pricing.			Oo to KooGallery to publish image
ervers and mages lastic Cloud Server V uswel Cloud Flexus V edicated Host	A private image creation Create Nov A private image can be a system disk image, data disk image, or full-CCC image You can create or import a private image. Learn more	Select an importing Import New Select an import method based on the image file bype, format, or size. Learn more	Image replicating Replicate an image within a replon. Learn more Replicate an image across regions. Learn more	Vou can share images with feasitis in the same region aryor. To share an image across regions, replacies the image to the larget region first. Learn more	C) Image exporting Yes can export a private image to a standard OSB bucket of the deveload it to year local PC. Learn nove
e Metal Server	You are advised to optimize private images that do n You can create 404 mero private images.	of support fast ECS creation. To check whether a private im	ige supports this function, go to its defails page. Learn mo	N	
etwork and ecurity	Delete Share Cross-region replica Q. Select a property or enter a keyword.				0
urity Groups the IP-17	Sourciment	15 Type 8 05 8 Image T	pe ⊖ Disk Capacity (GiB) ⊖ Encrypted		Operation

2. On the page for purchasing an ECS, select the ECS specifications and parameters as required, and click **Submit**.

For an ECS requested from IMS, retain the default region settings and fixed image settings. For details about other parameters, see **Purchasing a Custom ECS**.

D NOTE

- Images are regional resources. ECSs can only be created from the images that are in the same region as them. If you want to create ECSs using the image in other regions, replicate the image to other regions before creating ECSs by referring to **Replicating Images Across Regions**.
- The image of the FlexusL instance uses the x86 architecture, so the FlexusL instance can be migrated only to an x86 ECS.
- When migrating the FlexusL instance to an ECS, ensure that the memory of the ECS is greater than or equal to the memory or memory usage of the FlexusL instance. Otherwise, the ECS may be unavailable due to insufficient memory.
- 3. Click Back to ECS List. The created ECS is displayed in the ECS list.

Cloud Server Q Console	Elastic Cloud Server ③
Overview	We would much appreciate if you could complete our questionnaire on Elastic Cloud Server. Your feedback will help us provide a better user experience.
Events	
Scheduled O&M	The password reset plug-in can now be installed after creating an ECS. Learn how to install the plug-in.
Troubleshooting	Looking for Flexus instances? You can view and manage FlexusL and FlexusX instances on the Flexus console. Access the Flexus console
Cloud Bastion Host	My ECSs: CN North-Beijing4 (8) CN East-Shanghal1 (2)
Servers and	Start Stop Restart Reset Password More ~ Export ~
Images	Search or filter by name.
Elastic Cloud Server A	NameRD @ Moni Security Status @ AZ @ Specifications/Image @ OS @ IP Address @
Elastic Cloud Server	
ECS Group	ecc-tlexusl © Q Run AZ7 2vCPUs 40iB c7 large 2 flexusl-image 12470 6864207e-c1b4-4304 © Q Run AZ7 12470 172.19

4. After the migration, check whether services are normal.

Copy the EIP of the migrated server and use a browser to access the Nginx service. If the Nginx service can be accessed, the migration is successful.

The Nginx server is manually deployed in the source FlexusL instance. This section uses the Nginx server as an example to describe how to verify services after the migration is complete. Perform the verification based on the actual services of your FlexusL instance.

Welcome to nginx!

If you see this page, the nginx web server is successfully installed and working. Further configuration is required.

For online documentation and support please refer to <u>nginx.org</u>. Commercial support is available at <u>nginx.com</u>.

Thank you for using nginx.

Step 3: Release Related Resources

- Unsubscribe from the source FlexusL instance. For details, see Unsubscribing from FlexusL Instances.
- Delete a cloud backup vault.

On the CBR console, locate the **created server backup vault** and click **Delete**.

NOTE

If you have created a system disk image, skip this step because this resource is not involved during server migration.

Cloud Backup and Recovery Console	Vaults Backups Agent Installation
Dashboard	A valit a continent that stores backaps. You can associate a valit with resources and apply a backap policy to the valit. Delete Apply Backap Policy Expert
Cloud Server Backups	Select a property or enter a keyword.
Cloud Disk Backups	Name1D ⊕ Status ⊕ Type ⊕ Specific ⊕ Backup ⊕ Used/Total Vault C ⊕ Policy Status Associa ⊕
SFS Turbo Backups	
Desktop Backups	c8455699-4004-4219-8892-c9744235e 2 Available Backup Server backup Single-AZ 0/80 policy_152515 1
Cloud Database Backups	e67/d14a-778/400-8024-22254dd355e1 Available Backup Server backup Single-AZ - 9/80 No.policy.a
Hybrid Cloud Backups 🗸 🗸	ae6/d14a-77at-400-8/24-22254dd355e1

5.2 Using SMS to Migrate Servers to FlexusL Instances

Application Scenario

This section describes how to use Server Migration Service (SMS) to migrate other cloud servers to Huawei Cloud FlexusL instances in the same region or across regions.

Precautions

- Once the migration starts, do not perform operations on the FlexusL instances, including but not limited to stopping the instances, changing the OS, or reinstalling the OS. Otherwise, the migration will be interrupted or fail.
- If you want to migrate incremental data after the full migration is complete, do not reinstall or change the OS for the FlexusL instances, or the migration will fail.

Constraints

- Only x86 servers can be migrated to FlexusL instances.
- SMS migrates entire servers. It cannot only migrate system or data disks of servers.
- Only servers with one data disk can be migrated. The paired FlexusL instances must have system and data disks at least as large as the source servers.

For more information, see SMS Precautions and SMS Constraints.

Resource Planning and Costs

Resour ce	Data Planning	Description	Cost
Source server	Server name: source-server OS: CentOS 7.9	The source server can be in Huawei Cloud, another cloud platform, or an on- premises environment.	If the source server has no EIP bound, you need to configure one for the source server. You need to pay for the EIP.

Resour ce	Data Planning	Description	Cost
Target server	Server name: destination_se rver OS: Huawei Cloud EulerOS 2.0	The target server is a Huawei FlexusL instance.	You need to pay for the FlexusL instance.
SMS	-	SMS is available for free.	You need to pay for the pay-per-use migration resources (including EVS disks, EVS snapshots, and traffic) used during the migration. For details, see SMS Billing .

Process

Procedure	Description
Making Preparations	Prepare accounts, obtain required permissions, and prepare source and target servers.
Step 1 Installing and Starting the Agent on the Source Server	Install and start the Agent on the source server. To start the Agent, you must enter the AK/SK pair of the Huawei Cloud account the FlexusL instance belongs to. After the Agent is started, it reports information about the source server to SMS.
Step 2: Configuring the Target Server on the SMS Console	Configure the target server which will receive data migrated from the source server.
Step 3: Starting the Migration	Start the migration to replicate all data from the source server to the target server. The replication speed depends on the outbound bandwidth of the source server or the inbound bandwidth of the target server, whichever is smaller.
Step 4: Viewing the Migration Result	Check whether the source server is successfully migrated, and install the one-click password reset plug-ins and the HSS Agent on the target server.
Step 5: Creating a Private Image and Changing the OS of the FlexusL instance	Create a private image for the FlexusL instance and use the image to change the OS for the instance. In this way, the OS name of the FlexusL instance can be displayed in the instance card, and reinstalling the OS for the FlexusL instance will not roll back its OS to that before the migration.

Making Preparations

Prepare accounts, obtain required permissions, and prepare source and target servers.

1. Register a HUAWEI ID and enable Huawei Cloud services.

NOTE

Real-name authentication is required for migration to regions within the Chinese mainland.

2. Obtain required permissions for your HUAWEI ID.

If you use an HUAWEI ID for migration, you have the required permissions by default. If you use an IAM user for migration, you need to obtain the required permissions. For more information, see **Creating a User Group and Assigning Permissions**.

3. Obtain an AK/SK pair for your target account.

The AK/SK pair will be used for authentication during the migration. To learn how to obtain an AK/SK pair, see **How Do I Obtain an AK/SK Pair for an Account?**

SMS does not support AK/SK-based authentication for federated users (virtual users).

4. Note the username and password for logging in to the source server.

If your source server is not in Huawei Cloud, note the username and password of the source server. The username and password are required when you install the one-click password reset plug-ins on the target server after the migration is complete. If you forget the username and password, the plug-ins installation process will be complex.

- 5. Confirm that the source server OS is supported by SMS.
 - See Supported Windows OSs or Supported Linux OSs.
 - A target server must run the same type of OS as the source server.
- 6. Ensure that the following network requirements are met:
 - The source server can connect to the Huawei Cloud API Gateway over TCP port 443. For more information, see Connecting Source Servers to Huawei Cloud API Gateway.

D NOTE

It is recommended that all outbound ports on the source server be opened.

b. The source server can connect to the target server. For more information, see **Connecting Source Servers to Target Servers**.

In this practice, EIP is used for connection. You need to purchase and configure EIPs for both the source and target servers. A FlexusL instance has an EIP bound by default.

- c. The following ports are enabled in the security group of the target server to allow traffic to these ports:
 - Windows: TCP ports 8899, 8900, and 22
 - Linux: TCP port 22 for file-level migration, and ports 8900 and 22 for block-level migration

For details about how to control traffic into and out of a security group, see **Adding a Security Group Rule**.

- For security purposes, you are advised to only allow traffic from the source servers over these ports.
- The firewall of the target server must allow traffic to these ports.
- 7. Ensure that the following source server requirements are met: Available Space
 - Windows: at least 320 MB of available space on a partition not smaller than 600 MB, and at least 40 MB of available space on a partition smaller than 600 MB
 - Linux: at least 200 MB of available space on the root partition

Source Environment

- The system time of the source server must be consistent with the local standard time to avoid Agent registration failures.
- If the source server runs Linux, **rsync** must be installed on it. You can run the **rsync** -**v** command to check whether **rsync** is installed.

If it is not, install it by running the following command:

- CentOS: **yum -y install rsync**
- Ubuntu: apt-get -y install rsync
- Debian: apt-get -y install rsync
- SUSE: zypper install rsync
- Other distributions: Refer to the official website documentation.

NOTE

rsync comes preinstalled on most distributions by default.

Step 1 Installing and Starting the Agent on the Source Server

- If the source server runs a Linux OS, see **Installing the Agent on Linux**.
- If the source server runs a Windows OS, see **Installing the Agent on Windows**.

FAQ

1. If an error message indicating that rsync is not installed is displayed when you install Agent on the Linux source server, install rsync based on **Installing Rsync** and then reinstall the Agent.

[root@ecs-migrate-to-hecs] SMS-Agent]# ./startup.sh
Start the migration pre-check. Please waiting ko
[1165.691808] device-mapper: uevent: version 1.0.3
[1165.692860] device-mapper: ioctl: 4.37.1-ioctl (2018-04-03) initialised: dm-devel@redhat.com
[1166.034082] SGI XFS with ACLs, security attributes, no debug enabled
[1166.059118] xor: automatically using best checksumming function:
[1166.069340] avx : 25480.000 MB/sec
[1166.092340] raid6: sse2x1 gen() 10550 MB/s
[1166.109342] raid6: sse2x2 gen() 15179 MB/s
SMS-A6e126340ntraid6: sse2x4 gen() 19589 MB/s
SMS-A6e143340ntraid6: avx2x1 gen() 21898 MB/s
SMS-Age160338ntraid6: avx2x2 gen() 30839 MB/s r
SMS-Age177338ntraid6: avx2x4 gen() 34250 MB/s
SMS-Age194a38ntraid6:cavx512x1 gen() 28093 MB/sx86_64/iocapture.ko
SMS-Age211a39nt/ioblocavx512x26.32-7133218x86_64/
SMS-Age228a38nt/ioblocavx512x46.32-7140242x86_64/iocapture.ko
SMS-Age228788nt/ioblocusing algorithm avx512x4 gen() (40242 MB/s)
SMS-Age229355nt/x86/ using avx512x2 recovery algorithm
SMS-Age273788ntBtrfs loaded, crc32c=crc32c-intel
SMS-Age282437ntfuse init (API version 7.23)
checking migration risks
Pre-migration failed. The following problems are found:
0
LinuxCheckBeforeStartup:ctory
Error!!! SMS.6517: rsync not installed on the source server.
[root@ecs-migrate-to-hecs1 SMS-Agent]# _

2. If the following error message is displayed, check whether the access key is correctly entered or deleted.

Figure 5-1 Error message

After the SMS-Agent is started, the SMS-Agent performs a migration check, collects the system configuration, hardware, disk, and
IP address information of the source server, and reports the collected information to SMS. All information collected is used fo
r data migration only and will not be used for other purposes. You can delete a migration task on the SMS console at any time. T
he system automatically deletes all the preceding information. Do you agree? (y/n)y
Please input AK(Access Key ID) of Public Cloud:QJOF0UG6FVYSF4GWLIHL
Please input SK(Secret Access Key) of Public Cloud:********
sms.cn-north-4.myhuaweicloud.com
Do you want to use the sms_domain you entered last time? Please enter Y/y or N/n: n
Please input sms_domain of Public Cloud: sms.(.com
agent is starting, this may take a few minutes
Failed to obtain the JSON configuration file, Incorrect SMS domain name. Ensure that the system time is consistent with the stan
dard time and the AK and SK are correct.Please check the entered voucher or network Failed to start sms agent![root@ecs-migrate-

Figure 5-2 Access key

My Credentials	Access Keys 💿						
API Credentials	Access keys can be downloaded only on	Access keys can be downloaded only once after being generated. Keep them secure, change them periodically, and do not share them with anyone.					
		Type loss your access key, create a new access key and disable the old one. Oreate Access Key Access key Create Access Key Access key Create Access Key					
	Access Key ID 👙	Description $\frac{A}{\Psi}$	Status 👙	Created 👙	Last Used	Operation	
	ISPV8VX	sms	Enabled	Nov 15, 2023 11:29:31 GMT+	Nov 15, 2023 14:31	20 GMT+ Modify Disable Delete	

Step 2: Configuring the Target Server on the SMS Console

- 1. Log in to the **SMS console** using the Huawei Cloud account that owns the FlexusL instance and choose **Servers** on the left.
- 2. On the **Servers** page, locate the source server to be migrated and click **Configure**.

After step 1 is complete, you can see the source server record on the **Servers** page of the SMS console.

SMS	Servers o Process Flow 12 User Oxide
Dashboard	🔥 If you encounter permissions issues when using SMS, contact the administrator to obtain permissions. Learn more
Servers Templates	After you install and start the Agent on a source server, a record will be automatically generated.
Praxy Servers Agents	Process Flow X Impart for Migration (2) Initial and Stark Apert (3) Configure Target (4) Stark Migration (5) (Optimal Lanch Target (5) (Optimal Lanch Target
	Start Plane Lanck Target Sync May 2000 Start C

3. Configure the basic settings.

Retain the default settings on this page.

For details about the parameters, see **Configuring the Target Server**.

and how to configure the net- nod, hide the instructions.	vork, migration rate lin	nit, and
To migrate workloads over	a private network, en:	nsure that an EIP has been bound to the target server. The EIP will be used for migration. use that you have created required Direct Connect connections, VPN connections, VPC peering connections, or VPC subnets. The
address of the target serve	r will be used for migr	nabon. Mbil/s
0 means no rate limit. Ens	ure that ports 22, 8899	and 8900 have been enabled for Windows migration, and ports 22 and 8900 have been enabled for Linux migration.
Configure now		
		% (6)
		MB ⑦
		MB/s ③
		Linux file-level Low efficiency but e
File-level: Migra	ation is performed file	by file
IPv4	IPv6	
ization 🔘 No	Ves	0
No	O Yes	
inch O No	Yes	
formance 💿 No	O Yes	0
Automatic If the migration synchronization	Manual bandwidth is small or is cannot exceed the r	Other network performance is poor, enabling concurrency may reduce the migration efficiency. The number of concurrent migrations on tumber of partitions on the source server.
		Public Private To migrate workloads over a private To migrate workloads over a private network, en address of the target server will be used for migrate workloads over a private network, en address of the target server will be used for migrate models. 0 0

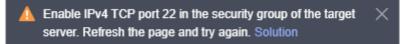
SMS Frice Free You pay standard fees for the EVS disks used during the migration. Learn more

- 4. Configure the target server and click **Next: Confirm** in the lower right corner.
 - **Region**: Select the region where the purchased FlexusL instance is _ located.
 - Server: Select Use existing and choose the purchased FlexusL instance. _

- Only servers with one data disk can be migrated. The paired FlexusL instances must have system and data disks at least as large as the source servers.
- The target server must run the same type of OS as the source server.
- The security group of the target server must be correctly configured. It must be configured to allow access on TCP ports 8899, 8900, and 22 for a Windows migration, or on port 22 for a Linux migration.

* Region Project	CN South-Guangzhou	~			
Project					
	cn-north-4(default)				
* Server	Use existing	Create new			
	2.If you switch services over to a c	loned target server, the tar rt properly after migratic	get server will use the same login cre	g mode to yearly/monthly after the migration dentials as the source server. ed during migration, and such information	
Name v	For a global search, enter a name.	Q Fo	a search on the current page, enter	a keyword. Q	
Name V Source: source-server				a keyword. Q Create Now	

If the following information is displayed when you perform this step, allow traffic over the prompted port, refresh the page, and repeat this step.



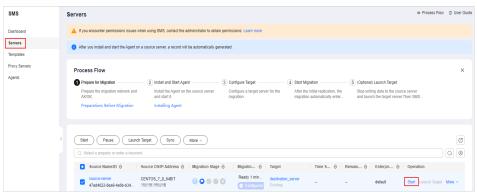
- 5. On the **Confirm** page, confirm the information and click **Save** or **Save and Start**.
 - If you select Save, read the migration checklist carefully and click OK.
 Then start the migration.
 - If you select Save and Start, read the migration checklist carefully and click OK. The migration starts automatically. View the migration status and details.

Are you sure you want to save the configuration? $^{ imes}$
(i) Migration Checklist ×
The system automatically checks the migration feasibility of the source server, but you must check the following items manually:
Do not restart the Agent during the migration.
Make sure that you select a target server with the same OS as the source server.
After the migration, make sure that you create a mirror for each target server disk. Note
that after the migration, reinstalling or changing the target server OS or modifying its
specifications may fail or make the server unavailable.
Make sure that TCP ports 22, 8899, and 8900 are enabled for Windows target servers,
and ports 22 and 8900 are enabled for Linux target servers.
· Before the migration is complete, do not perform any operations on the target
$\operatorname{\boldsymbol{server}}$, such as changing or reinstalling the OS. Otherwise, the migration may fail and
additional pricing may apply.
Learn more
ОК

Step 3: Starting the Migration

- 1. Log in to the **SMS console** using the Huawei Cloud account that owns the FlexusL instance and choose **Servers** on the left.
- 2. On the **Servers** page, locate the source server to be migrated and click **Start** in the **Operation** column.

Alternatively, select the server to be migrated and click **Start** above the server list.



3. After the migration starts, click the name of the source server to view the migration status and details.

Latest Task Progress						
Do not perform any operations on the destination host during	Do not perform any operations on the destination host during the migration. Learn more					
Initial replication	Task ID 10696a8	aedd-4ddf-9ae4-3824ce57e680	Start Time Mar 21, 2024, 15:27:44 GMT+08:00			
End Time						
Task Status Running						
Subtask 😔	Start Time 😑	End Time \varTheta	Progress 🖯			
Create a secure transmission channel.	Mar 21, 2024 15:27:44 GMT+08:00	Mar 21, 2024 15:27:52 GMT+08:00	100%			
Mount the Agent image and relaunch the target.	Mar 21, 2024 15:27:52 GMT+08:00		80%			
Format Linux file-level partitions.			0%			
Migrate Linux file-level data.		**	0%			
Modify Linux file-level configurations.	-	-	0%			
Uninstall the Agent image.			0%			

4. Check whether the **Status** changes to **Finished**. If it changes, the target server has been launched, and the migration is complete.

Start Pause Laund	h Target Sync	More ~		
Q Select a property or enter a keywo	ord.			
Source Name/ID 👄	Source OS/IP Address	Migration Stage 😂	Migratio ⊖	Target
9348c257-0913-4421-b1e	CENTOS_7_9_64BIT	60000	Disconnected Finished	hcss_ecs_23eb Existing

5. (Optional) If incremental data is generated on the source server after the full migration is complete, synchronize the incremental data from the source server to the target server.

Start Pause Launch Target Sync More ~					
Qs	elect a property or enter a keywo	ord.			
0	Source Name/ID \ominus	Source OS/IP Address \Leftrightarrow	Migration Stage \Leftrightarrow		
	source-server 47ad4622-6ea9-4e6b-b34	CENTOS_7_9_64BIT	6 0 8 0 0		

D NOTE

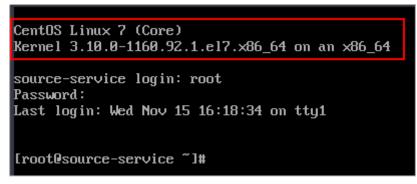
If you want to migrate incremental data after the full migration is complete, do not reinstall or change the OS for the target server, or the migration will fail.

Step 4: Viewing the Migration Result

1. Check the OS on the FlexusL instance.

Click **Remote Login** in the FlexusL instance card. If the OS and kernel information of the source server is displayed, the migration is successful.

Enter the username and password of the source server to log in to the FlexusL instance.



2. (Optional) Install the one-click password reset plug-in on the FlexusL instance.

If your source server was not created from a Huawei Cloud image, install the one-click password reset plug-in on the FlexusL instance. With the plug-in, you can reset your instance password. To install the plug-in, refer to the following:

- What Should I Do If the Password Cannot Be Reset After I Use a Private Linux Image to Create a FlexusL Instance or Change the OS of an Existing Instance and I Forgot the Initial Password of the Private Image?
- What Should I Do If the Password Cannot Be Reset After I Use a Private Linux Image to Create a FlexusL Instance or Change the OS of an Existing Instance and I Know the Initial Password of the Private Image?
- 3. (Optional) Check the HSS service status.
 - If your FlexusL instance does not contain the HSS service, skip this step.
 - If your FlexusL instance contains the HSS service, but the service is not enabled, enable HSS by referring to What Do I Do If HSS Is Not Started After I Use a Private Image to Create a FlexusL Instance or Change the OS of an Instance?

Figure 5-3 HSS Unprotected status

88 Overview	Host Security				
Cloud Servers					
EVS Disks					
Cloud Backup Vaults					
⊘ Host Security	hcss_ecs_6a63				
	View protected server Running				

Step 5: Creating a Private Image and Changing the OS of the FlexusL instance

After the migration is complete, the original OS name (Huawei Cloud EulerOS 2.0) is still displayed in the FlexusL instance card, as shown in figure **Figure 5-4**. If you choose to reinstall the OS for the FlexusL instance after the migration is complete, the OS will actually be rolled back to the original OS Huawei Cloud EulerOS 2.0 rather than CentOS 7.9, and the OS data migrated from the source server will be lost.

Create a private image for the FlexusL instance. Then use the image to change the OS for the instance. After the OS is changed, the above two problems can be solved.

NOTICE

If the OS is changed, incremental data on the source server cannot be synchronized. Ensure that no incremental data needs to be synchronized before changing the OS. **Figure 5-4** Image name of the FlexusL instance

FlexusL (9)				
Batch operation ⑦				
destination_server				
• Running				
G Huawei Cloud EulerOS 2.0 Standard 64 bit				
2 vCPU 2 GiB System disk 40 GiB Data package 400 GB Peak				
EIP:100.95.				
In use,30 day 🖵 Remote Login 🗔 Renew \cdots				

- 1. Log in to **IMS console**, choose **Create Image**, and configure the following parameters:
 - **Region**: Retain the default value.
 - **Type**: Retain the default value.
 - **Image Type**: Retain the default value.
 - **Source**: Select the FlexusL instance.
 - Name: Enter an image name that is easy to identify, for example, CentOS 7.9_source-server-image.
 - **Agreement**: Read the agreements and select the **Agreement** option.

mage Type and So	burce					
Region	CN South-Guangzhou ▼					
	Regions are geographic areas isolated fro latency and quick resource access, select	m each other. Resources are region-sp the nearest region.	pecific and cannot be used acro	ss regions through in	lernal network connections. F	or low
Туре	Create Image Import Ima	ge ?				
Image Type	System disk image Full-E	CS image Data disk image	?			
Source	ECS BMS					
	 Before creating an image, configured runs Windows. Learn more 	ed state can be used to create private re and optimize the ECS. Ensure Clou he selected ECS or associated resour	d-init is installed if the ECS runs	ated.		
		All statuses	▼ Name	 Enter a ke 		С
	Name	OS		ate IP Address	Created	
	 hcss_ecs_23eb 	Huawei Cloud EulerOS 2.0	Running	4.32140	Mar 20, 2024 15:22:47 G.	
	~ O	OwnD0 13 684	Charles 70	10.000	146 (0.00) *****	
	 O (100 000 0000) 	Constantine Constant 11	dense w		100.00	
	• O	One their still at	energy (2)	8.08	People and the	
	~ O 	mane One Barrish 11.	Others 12	10.00	0.0000000000000000000000000000000000000	
	✓ ○	10000000000000000000000000000000000000	dense in			
	6 Total Records: 9 < Buy ECS	12>				
nage Information						
Name	CentOS 7.9_source-server-image					
Enterprise Project	default	• C 🤅				
Тад	It is recommended that you use TMS's pre	defined tag function to add the same tag	ag to different cloud resources.	View predefined tags	С	
	Tag key	Tag value				
	You can add 10 more tags.					
Description						

- 2. Click **Next**, confirm the information, and click **Submit**.
- 3. Go back to the FlexusL console, click the FlexusL instance, and choose **Change OS** in the upper right corner.

S Wor	dPress-ap-southeas… «	🖵 Remote Logir	n 🗊 Renew …	
Region CN	I-Hong Kong 2 vCPU 2 GIB System disk 60 GIB Data 1770c O Running	i package 3,072 GB Peak bandwidth 30 Mbil/s		Stop Restart Reset Password
Overview Cloud Servers	Resource Overview		@ Process Flow	Upgrade Add Storage Space
 EVS Disks Cloud Backup Vaults 	Cloud Instance	Elastic Volume 1 System Disk	Elastic IP	Reinstall OS Change OS Enable Auto-Renew
Host Security	Elastic Volume 1 Data Disk	Cloud Backup a 1	Host Security S 1 Basic Edition	Unsubscribe

- 4. Configure the parameters for changing the OS and click **Submit**.
 - Select the private image **CentOS 7.9_source-server-image** created in **1**.
 - Stop the instance first or select **Stop server** on the **Change OS** page.
 - Read and agree to the agreements.

Current Configurat	ion		
Name	IP Address	Specifications	Image
hcss_ecs_23eb	(private)	2 vCPUs 2 GiB System disk 40 C	Huawei Cloud EulerOS 2.0 Standard 64 bit
Application Images	OS Images Private Images		
CentOS 7.9 source-se	ver-image (40GiB)	• Create 🛛	
New image CentOS	1.9_source-server-image limage ID: df	53ba04-6af2-4cb1-ad97-9748e39de789 OS: Hu	awei Cloud EulerOS 2.0 64bit
A 1.Select an image	in the current region and ensure that the	image specifications are appropriate for	eam _{I2}
	tance, or the creation or start may fail.	n ne password for logging in to the instance.	lore the
2.7 Hor you motant	ne maanee mar a nen mage, enange a	e passione for regging in to the instance.	
Stop server			
A The server will be at	utomatically stopped. Do not perform an	y operations on the server	
		y operations on the server	
A The server will be au during this process			
A The server will be au during this process	ŝ.		

5. Check whether the image name on the console is changed.

FlexusL (9)					
Batch operation ⑦					
 CentOS 7.9_source-server-image VCPU 2 GiB System disk 40 GiB Data package 400 GB Peak EIP:100.95. In use, 30 day Remote Login Renew 					