Practical Application of Huawei Cloud Solutions

Application Containerization on the Cloud

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Solution Overview

Scenarios

This solution is built on **Cloud Container Engine (CCE)** to quickly deploy a cross-AZ HA container cluster environment, helping you quickly containerize your service systems. CCE is a high-performance, highly reliable service through which enterprises can easily manage containerized applications. It supports native applications and tools of the Kubernetes community.

Architecture

This solution is built on Cloud Container Engine (CCE) to quickly deploy a cross-AZ HA container cluster environment, helping you quickly containerize your service systems.



Figure 1-1 Architecture

This solution will:

- Deploy master nodes of a CCE cluster across AZs to manage compute nodes and manage and schedule resources of service systems.
- Create a node pool for a CCE cluster to quickly create, manage, and destroy nodes without affecting the entire cluster.
- Contain three compute nodes in a node pool to run service systems. Compute nodes are deployed across AZs. Each node contains basic components required for running pods. You can add nodes as needed.
- Automatically install common add-ons, such as autoscaler, metrics-server, and cce-hpa-controller, to support scale-out that meets feature requirements.

Advantages

• HA

A CCE cluster has three master nodes. If one master node is faulty, the cluster can still work without affecting service functions. Compute nodes can be deployed across AZs to ensure high availability of service systems.

• Open and compatible

CCE is built on Kubernetes and compatible with Kubernetes native APIs and kubectl (a command line tool). CCE provides full support for the most recent Kubernetes and Docker releases.

• Easy deployment

One-click deployment allows you to quickly use the capabilities of Huawei Cloud container services.

Constraints

• Before deploying this solution, you need to sign up for Huawei Cloud. Ensure that your account is not in arrears or frozen.

2 Resource and Cost Planning

This solution involves the resources listed in **Table 2-1**. The costs are only estimates and may differ from the final prices. For details, see **Pricing Details**.

Huawei Cloud Service	Example Configuration	Monthly Cost
Cloud Container Engine (CCE)	 Pay-per-use: \$0.08 USD/hour Region: AP-Singapore Billing Mode: Pay-per-use Cluster Type: CCE Cluster Management Scale: 50 nodes High Availability: Yes Quantity: 1 	\$302.40 USD
CCE Cluster Nodes	 Pay-per-use: \$0.52 USD/hour Region: AP-Singapore Billing Mode: Pay-per-use CPU Architecture: x86 Specifications: General computing- plus c6s.xlarge.2 4 vCPUs 8 GiB Image: EulerOS 2.5 System Disk: High I/O 40 GiB Data Disk: High I/O 100 GiB Quantity: 3 	\$371.52 USD

 Table 2-1 Resource and cost planning

Huawei Cloud Service	Example Configuration	Monthly Cost
Elastic IP (EIP)	 Region: AP-Singapore Billing Mode: Pay-per-use Product Type: Dedicated Routing Type: Dynamic BGP Billed By: Traffic Quantity: 1 	\$0.11 USD/GB \$0.01 USD/2 hours (The specific cost is estimated based on the actual service traffic and duration.)
Total		\$673.92 USD + Public network traffic fee (\$0.11 USD/GB & \$0.01 USD/2 hours)

3_{Procedure}

- 3.1 Preparations
- 3.2 Quick Deployment
- 3.3 Getting Started
- 3.4 Quick Uninstallation

3.1 Preparations

Creating the rf_admin_trust Agency

Step 1 Log in to Huawei Cloud official website, open the **console**, hover over the account name, and choose **Identity and Access Management**.

Figure 3-1 Console page





Figure 3-2 Identity and Access Management

Step 2 Choose **Agencies** in the left navigation pane and search for the **rf_admin_trust** agency.

Figure 3-3 Agencies

IAM	Agencies ③						Create Agency
Users	Delete Agen	ncies available for creation: 32			AI	✓ rf_admin_trust	X Q
User Groups	Agency Na	ame/ID ↓≣ Delegated Party ↓≣	Validity Period ↓≡	Created 4F	Description ↓≣	Operation	
Permissions •	rt_admin_tr	ust Account op_svc_IAC	Unlimited	Jan 16, 2023 17:57:41 GMT+08:00	Created by RF, Not delete.	Authorize Modify Delet	•
Agencies							
Identity Providers							
Security Settings							

- If the agency is found, skip the following steps.
- If the agency is not found, perform the following steps.
- Step 3 Click Create Agency in the upper right corner of the page. On the displayed page, enter rf_admin_trust for Agency Name, select Cloud service for Agency Type, select RFS for Cloud Service, and click Next.

Figure 3-4 Creating an agency

Agencies / Create Agen	cy
★ Agency Name	rf_admin_trust
★ Agency Type	 Account Delegate another HUAWEI CLOUD account to perform operations on your resources. Cloud service Delegate a cloud service to access your resources in other cloud services.
* Cloud Service	RFS -
* Validity Period	Unlimited -
Description	Enter a brief description.
	0/255 Next Cancel

Step 4 Search for **Tenant Administrator**, select it in the search results, and click **Next**.

Figure 3-5 Selecting a policy

< Authorize Agency	
Stelect PolicyRole (2) Belect Scope (3) Finish	
Assign selected permissions to rf_admin_trust1.	Create Policy
View Selected (1) Copy Permissions from Another Project	All policiestroles All services
Policy/Role Name	Туре
DRE Administrato/Access Resourcess Data Model Engine tenant administrator with full permissions.	System-defined policy
V Tenant Administrator (Exclude MM)	System-defined role
CB Tenart Admin Cloud Stream Service Tenart Administrator, can manage multiple CS users	System-defined role

Step 5 Select **All resources** and click **OK**.

Figure 3-6 Selecting a scope

< Authorize Agency	
(1) Select Policy/Role (2) Select Scope (3) Finish	
1 The following are recommended scopes for the permissions you selected. Select the desired scope requiring minimum authorization.	
Scope	
All resources	
IAM users will be able to use all resources, including those in enterprise projects, region-specific projects, and global services under your account based on assigned permissions.	
Show More	

Step 6 If **rf_admin_trust** is displayed in the agency list, the agency has been created.

Figure 3	5-7	Agencies						
IAM	Age	encies 💿						Create Age
Users		Delete Agencies available for cres	ation: 32			All	▼ rf_admin_trust	×Q
User Groups		Agency Name1D ↓≣	Delegated Party ↓≣	Validity Period ↓≡	Created JF	Description ↓≡	Operation	
Permissions v Projects		rf_admin_trust	Account op_svc_IAC	Unlimited	Jan 16, 2023 17:57:41 GMT+08:00	Created by RF, Not delete.	Authorize Modify Delete	
Agencies								
Identity Providers								
Security Settings								

2 7 4 _. .

----End

3.2 Quick Deployment

Automatically deploy the Application Containerization on the Cloud solution.

Parameter	Туре	Mandatory (Yes/No)	Description	Default Value
vpc_name	String	Yes	The prefix of a Virtual Private Cloud (VPC) name. This template uses a newly created VPC and the VPC name must be unique. The value can contain 1 to 57 characters and can include letters, digits, underscores (_), hyphens (-), and periods (.).	application- containerizatio n-to-the- cloud-demo
cce_name	String	Yes	Cloud Container Engine (CCE) name. The value contains 4 to 128 characters starting with a letter and not ending with a hyphen (-). Only lowercase letters, digits, and hyphens (-) are allowed.	application- containerizatio n-to-the- cloud-demo

Table 3-1 Parameter description

Parameter	Туре	Mandatory (Yes/No)	Description	Default Value
node_pool_na me	String	Yes	Node pool name. The value contains 1 to 50 characters starting with a letter and not ending with a hyphen (-). Only lowercase letters, digits, and hyphens (-) are allowed.	application- containerizatio n-to-the- cloud-demo
node_pool_pas sword	String	Yes	Node pool Password. The value contains 8 to 26 characters consisting of at least three of the following types: uppercase letters, lowercase letters, digits, and special characters (!@\$ $\%^- =+[{]:,.?})$.	Empty

Step 1 Log in to Huawei Cloud Solution Best Practices, choose Application Containerization on the Cloud and click Deploy. The Create Stack page is displayed.



This solution is a gr	eat way to deploy software more efficiently		
User -	Huawei Cloud Huawei Cloud Elastic IP (EIP) Elastic Load Balance (ELB)	Cloud Container Engine (CCE)	Application Containerization on the Cloud Version: 1.0.0 Last Update: April 2023 Built By: Huawei Cloud Time Required for Deployment: About 20 minutes Time Required for Uninstallation: About 10 minutes Estimated Cost * View Source Code * View Deployment Guide





< Create Stack		
1 Select Template	Configure Parameters	
* Creation Mode	Existing templates	
* Template Source	URL Updow Template A startic resolution resolution to the startic bin decision and ends this which file ensure automation in W or W inco	
* Template URL	Mps://focumentation.amplies4.doi.ap.optimates implies/focumentation.amplies4.doi.ap.optimates The URS, more relation amplies4.doi.ap.optimates implies4.doi.ap.optimates	
	• RFS only uses the data you uplead for resource management. Your temptate will not be encrypted. KMS and DEW are recommended for encryption of sensitive variables. Currently, the RFS console can automatically use KMS to encrypt your sensitive variables.	
		0
		e
		0
		Next

Step 3 On the **Configure Parameters** page, enter a stack name, configure parameters according to **Table 3-1**, and click **Next**.

Figure 3-10 Configure parameters

< Create Sta	ck								
(1) Select Template	O Configure Parat	meters (3) Configure Stack	(4) Confirm Configurations						
* Stack Name Description	Stack Name application-containentcation-b-the-dood The stack name must be snape. The stack name must be snape. The stack name must be unique. Description Application Containentcation on the Coud 41255								
Configure Enter a keywor	Configure Parameters								
* vpc_name		application-containerization-to-the-cloud-demo	string	Virbual Private Cloud (VPC) name. This template uses a newly created VPC and the VPC name must be unique. The value can contain 1 to 64 characters, including latters, digits, u					
* cce_name		application-containerization-to-the-cloud-demo	string	Cloud Container Engine (CCE) name. The value can contain 4 to 128 characters; including letters, digits; and hyphens (-). It must start with a letter and cannot end with a hyphen (
* node_pool_na	ime	application-containerization-to-the-cloud-demo	string	Node pool name. The value can contain 1 to 50 characters, including letters, digits, and hyphens (-). It must start with a letter and cannot end with a hyphen (-). Default value: appli					
* node_pool_pa	issword	······ 69	string	Node pool password The value can contain 8 to 26 characters, including at least three types of the following characters: uppercase letters, lowercase letters, digits, and special ch	6				
					0				

Step 4 On the **Configure Stack** page, select the **rf_admin_trust** agency and click **Next**.

Figure 3-11 Configuring a stack



Step 5 On the Confirm Configurations page, confirm the configurations and click Create Execution Plan.

< Create Stack									
(1) Select Template ——— (2) Co	nfigure Parameters ③ Configure Stack ④	Confirm Configurations							
RFS is free of charge, but the reso	IF3 is the of charge, but the resources in the stack are not. Currently, you need to create an execution plan (thes of charge) to obtain the estimated price.								
Template Info Stack Name	application-containerization-to-the-cloud			Description	Application Containerization on	the Cloud			
Parameters 🖉									
Parameter Name	Value	Type	Description						
vpc_name	application-containerization-to-the-cloud-demo	string	Virtual Private Cloud (VPC) name. This te	implate uses a newly created VPC and the	VPC name must be unique. The value	can contain 1 to 64 characters, including letters	s, digits		
cce_name	application-containerization to the-cloud-demo	string	Cloud Container Engine (CCE) name. Th	e value can contain 4 to 128 characters, in	cluding letters, digits, and hyphens (-).	It must start with a letter and cannot end with a	hyphen		
node_pool_name	application-containerization-to-the-cloud-demo	string	Node pool name. The value can contain t	to 50 characters, including letters, digits, a	and hyphens (-). It must start with a lett	er and cannot end with a hyphen (-). Default val	lue: ap		
node_pool_password	*****	string	Node pool password. The value can cont	ain 8 to 26 characters, including at least thr	ree types of the following characters: up	opercase letters, lowercase letters, digits, and sp	pecial		
Stack Settings IAM Permission Agency (Provide	rf husweidoud, (Agency) / ("Jefmin_"hust	Aufo-Rolback	Disabled	De	eletion Protection Disabled		() () ()		
Estimated fee: You can obtain the estimate	ed fee after creating an execution plan (free of charge).				Previous	Create Execution Plan	Deploy Stack		

Figure 3-12 Confirming configurations

Step 6 In the displayed Create Execution Plan dialog box, enter an execution plan name and click **OK**.

Figure 3-13 Creating an execution plan



Step 7 Wait until the status of the execution plan changes to **Available** and click **Deploy** in the **Operation** column. In the displayed dialog box, click **Execute**.

Figure 3-14 Execution plan created

< application-containerizati				Delete Upda	ate Template/Parameter C
Basic Information Resources Outputs Eve	nts Template Execution Plans				
Deploy				Enter a keyword.	Q C
Execution Plan Name/ID	Status	Estimated Price ③	Created	Description	Operation
executionPlan_20230321_1421_1p82 802eb521-66a8-487a-89b5-a054/f64718bb	Available	View Details	2023/03/21 14:21:37 GMT+08:00		Delete Deploy



Are you sure you want	t to execute the	e plan?	
Execution Plan Nar	me	Status	Created
executionPlan_2023	0321_142	Available	2023/03/21 14:21:37 GMT+08
 After the plan i template are e requirements. 	is executed, th nabled, which	e stack is updated may incur fees ba	accordingly, and resources in the sed on resource payment

Step 8 Wait until automatic deployment is complete, and click the **Events** tab to view details.

Figure 3-16 Resources created

Application-container/zati Delete Update Tampate/Parameter Basic Information Resources Outputs Events Template Parameter								
		CONVETTING.						
				Enter a keyword. Q				
Time J⊒	Туре	Description	Resource Name/Type	Associated Resource ID				
2023/03/21 14:32:39 GMT+08:00	LOG	Apply required resource success.	-	-				
2023/03/21 14:32:35 GMT+08:00	-	Apply completel Resources: 8 added, 0 changed, 0 destroyed.	-	-				
2023/03/21 14:32:35 GMT+08:00	Creation Complete	husweickud_cce_addon.metrics-server: Creation complete after 3m32s [id=ac60fca2-c7b1-11ed-a609-0255ac100030]	metrics-server cce-addon	ac600ca2-c7b1-11ed-a609-0255ac100030				
2023/03/21 14:32:35 GMT+08:00	Creation Complete	huaweickud_cce_addon.cce-hpa-controller: Creation complete after 3m32s [id=ac77/535-c7b1-11ed-ae3F0255ac100030]	cce-hpe-controller cce-addon	ac771535-c7b1-11ed-ae3f-0255ac100030				
2023/03/21 14:32:33 GMT+08:00	Creation in Progress	huaweickoud_cce_addon.cce-hpa-controller: Still creating [3m30s elspsed]	cce-hpe-controller cce-addon					

Figure 3-17 Execution completed

< application-containerizati			Delete Up:	date Template/Parameter C
Basic Information Resources Outputs Events Template Execution Plans				
Deploy			Enter a keyword.	QC
Execution Plan Name/ID Status	Estimated Price ③	Created	Description	Operation
executionPlan_20230321_1421_1982 Applied		2023/03/21 14:21:37 GMT+08:00	-	Delete

----End

3.3 Getting Started

Step 1 Log in to the **Huawei Cloud CCE** console, select a region, and choose **Resources** > **Clusters** to view the CCE cluster created using this solution.

Figure 3-18 CCE cluster

No.	HUAWEI CLOUD 🎧 이	onsole Singapore	Search Q	Billing & Costs Resources Enterprise	Developer Tools Support Service Tickets
0	CCE Clusters	CCE Turbo @ Learn more CCE Turbo clusters run on the closer native 2.9 infrastructure that features software-hard pastfrough networking, high security and reliability, and intelligent scheduling	ware synergy, supporting Buy	CCE cluster A CCE cluster supports hybrid deploy environment for multi-scenario applic	yment of heterogeneous nodes. It provides a secure attions based on high-performance network models.
m.	Add-ons	Cperation Records Search keyword			Q C
6 6	Container Application Operations Management	application-containerization-to-the-cloud-demo 💿 🔹 Running			:;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
Ø		Type CCE cluster, Network Model VPC network	CPI	J Usage	Memory Usage
۵ ۲		Cluster Version v1.19 Billing Mode Pay-per-use Add-ons (2) Add-ons Available	e/Total Nodes	95%	14.25%
ది			Total CP	US IC COIR	Upgrade Cluster

Step 2 On the CCE console, choose Resources > Nodes > Node Pools to view the node pool created using this solution.

Figure 3-19 Node pools

HLMARD	HUAWEI CLOUD 슮 여	onsole 🔍 Singapore 🗸		Search	Q Billing & Costs [®] Resources Enter	prise Developer Tools Support	Service Tickets	🕀 Intl-English
Ξ	< application-cont *	Cluster: application-containerization-to CCE duster / N	lode pool					🗗 Quick
۵	Cluster Information	Nodes Node Pools				autoscaler (Plug-In exception. Cli	ck the plug-in nar
۲	BB Resources							
λΛ	Nodes	View Events						Enter a name.
0	Workloads	✓ quota (remaining/total):ECS (37/50) CPU(cores) (170/2)	(00)					
\circ	Networking	Node Pool Name	Status	Actual/Desired Nodes	Scalable specifications	Billing Mode	Auto Scaling	Operatic
6	Storage	 application-containerization-to-the-cloud-demo 	 Normal 	3/3	Elastic Cloud Server (VM) c6s.xlarge.2 Random	Pay-per-use	Enable	View Nor
Ð	ConfigMaps and Secrets							
4	Custom Resources							
Ø	Namespaces							
ఉ	₿ 08M							
	Node Scaling							
	Workload Scaling							
	Add-ons 🚯							
	Charts							
	Cluster Upgrade 💧 🔶							

Step 3 On the CCE console, choose **Resources** > **Nodes** > **Nodes** to view the cluster node created using this solution.

Figure 3-20 Nodes

М	HUAWEI CLOUD 슮 여	onsole 오	Singapore 👻				Search	Q	Billing & Costs	Resources En	terprise Develop	er Tools Support	Service Tickets (🕀 Intl-English
Ξ	<a> application-cont ▼	Cluster:	application-containerization	1-to CCE cluste	/ Node								🕼 Quick	Links Creat
٢	Cluster Information	Nodes	Node Pools											
6	Resources									Titles had		Node Name		
	Nodes		quota (remaining/total) FCS (2	37/50) CPU(cores)	170/200)					Piller by a	idens and carris 🗢	Node Name	Ţ	Search Keyword
~	Workloads								Pods	CPII	Memory	Runtime Version	8	
6	Networking		Node Name	Status 🖓	Node Pool 7	Configure 🍞	IP Address (?)		(Allocated/	Request/Li	Request/Li	OS Version	Billing Mod	ie 🎖 Ope
0	Storage ConfigMaps and Secrets		application-containerization-	-to-the-c Runnin Schedu	application-containerizati	AZ3 c6s.xlarge.2 4vCPUs 8GiB	172.16.10.10 (Private)		4740	21.68% 31.89%	21.31% 34.9%	docker://18.9.0 EulerOS 2.0 (SP5	Pay-per-us	Mon 23 14:29:1
4 ©	Custom Resources Namespaces		application-containerization-	-to-the-c Runnin	application-containerizati	AZ2 c6s.xlarge.2	172.16.10.223 (Private)		5/40	20.41%	21.18%	docker://18.9.0	Pay-per-us	Mon
ക	₿ O&M					4vCPUs 8GiB				00.33%	39.03%	Eueros 2.0 (5P5) Mar 21, 202	3 14:29:1
	Node Scaling] application-containerization-	-to-the-c Runnin Schedu	application-containerizati	AZ3 c6s.xlarge.2 4vCPUs 8GIB	172.16.10.8 (Private)		6740	36.99% 82.91%	33.35% 65.32%	docker://18.9.0 EulerOS 2.0 (SP5	Pay-per-us	Mon 13 14:29:1
	Workload Scaling													
	Add-ons 🚯													
	Charts													
	Cluster Upgrade 🛛 🔶													

Step 4 On the CCE console, choose **Workloads** in the navigation pane, and click **Create** Workload in the upper right corner to add a workload. When adding a container, you can select a private or public image to deploy your application on CCE.

Figure 3-21	Creating a	a workload
-------------	------------	------------

HEADE	HUAWEI CLOUD 습 여	Concole 🗣 Singapore 🔹 Search Q Billing & Cost [®] Resources Enterprise Developer Tools Support Service Toletto 🕀 Intel-Explain
-	application-cont *	Cluster: application-containerization-to (CCE:dealer / Namespace: (ethicit) + / Deployments (P Quick Line / Create Workload Create From VA
	Cluster Information	Deployments StatefulSets DaemonSets Jobs Cron Jobs Pods
	## Resources	
.00	Nodes	Delete Fiker by lebel * Enter a name. Q C
0	Workloads	Workload Name j≣ Status j≣ Pods (NormatiAN) Namespace Created j≣ Image Name Operation
\bigcirc	Networking	
\odot	Storage	
\odot	ConfigMaps and Secrets	
Φ	Custom Resources	
۲	Namespaces	
ය	Ø O&M	
	Node Scaling	In a Deployment, all pools are independent but configured and functioning the same. Deployments unuport adds scaling and rolling upgrade. Typical Deployments include Neirs and WordPress.
	Workload Scaling	(Prudiok Lins)
	Add-ons 🚯	
	Charts	
	Cluster Upgrade 🛛 🔶	
	End	



3.4 Quick Uninstallation

Step 1 Click Delete in the row where the solution stack is.

Figure 3-22 Uninstalling the solution

Stacks ⑦)						🍞 User
						Search by stack name by o	default.
Stack Na	ame	Status 🍞	Description	Created 1F	Updated ↓Ξ		Operation
applicatio d31b8fdd	on-containerization-to-the-cloud 1-238c-4de7-8393-84aaa987a93e	Deployment Complete		2023/03/21 14:21:37 GMT+08:00	2023/03/21 14:32:39 GM	1T+08:00	Delete Update

Step 2 Enter Delete and click OK.

Figure 3-23 Confirming the uninstallation

Delete Stack			×
Are you sure you want to delete the stac be restored after being deleted. Exercise	ck and resources in t e caution when perfo	he stack? Stack and resources cannot rming this operation.	
Stack Name	Status	Created	
application-containerization-t	Deployment	2023/03/21 14:21:37 GMT+08:00	
Enter Delete to delete the stack and reso	ources.		
	OK Cance	Ι	

----End

4 Appendix

Terms

- **Cloud Container Engine (CCE)**: A fully hosted Kubernetes service for you to build, run, and scale containerized applications.
- Elastic Cloud Server (ECS): ECS provides secure, scalable, on-demand compute resources, enabling you to flexibly deploy applications and workloads.
- **Elastic IP (EIP)**: EIP provides static public IP addresses and scalable bandwidths that enable your cloud resources to communicate with the Internet. You can easily bind an EIP to an ECS, BMS, virtual IP address, NAT gateway, or load balancer, enabling immediate Internet access.
- Virtual Private Cloud (VPC): VPC allows you to isolate online resources with virtual private networks. VPC enables your cloud resources to securely communicate with each other, the internet, and on-premises networks.
- A **cluster** is a collection of compute resources, including a group of nodes. A container runs on a node. Before creating a containerized application, you must have an available cluster.
- A **node** is a virtual or physical machine that provides compute resources. You must have sufficient node resources to ensure successful operations such as creating applications.
- A **workload** indicates a group of container pods running on CCE. CCE supports third-party application hosting and provides the full lifecycle (from deployment to O&M) management for applications. This section describes how to use a container image to create a workload.

5 Change History

Table 5-1 Change history

Released On	Description
2023-04-30	This issue is the first official release.