SoftWare Repository for Container

FAQs

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General FAQs

1.1 What Is SWR?

SoftWare Repository for Container (SWR) allows users to easily manage the full lifecycle of container images and facilitates secure deployment of images for your applications.

1.2 About SWR

How Many Images Can Be Stored in SWR?

SWR has no limit on the number of images. You can upload any number of images.

What Is the Bandwidth of SWR?

The bandwidth of SWR dynamically changes based on actual usage.

Is SWR Free?

Yes. Currently, SWR is a free service. The billing items of SWR include storage space and traffic, both of which are free for charge.

Does SWR Support Querying the CPU Architecture (x86 or Arm) of an Image?

- For a public image, you can log in to the SWR console, go to the image center, search for the target image, and view its details, including the architectures supported by the image.
- For a private image, you can Run **docker inspect** [*Image name*: *Version name*] to query the image architecture.

Example: docker inspect openjdk:7.

Figure 1-1 Example

1.3 How Do I Create a Container Image?

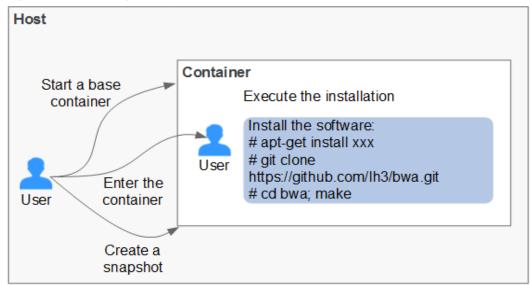
The following two approaches are for you to consider. Approach 1 is for images that will only be updated occasionally whereas approach 2 is for images that will be frequently updated.

- Approach 1: creating a snapshot. This approach involves three key steps: (1)
 Start a base container by running a base image (for example, Ubuntu image);
 (2) install the container engine software inside the base container; (3) create a snapshot of the container.
- Approach 2: creating a Dockerfile to build an image. This approach involves two key steps: (1) Write software installation instructions into a Dockerfile;
 (2) run the docker build command to build an image from the Dockerfile.

Approach 1: Creating a Snapshot

This approach is suitable for images that will only be updated occasionally.

Figure 1-2 Creating a snapshot



Procedure:

- 1. Install the container engine software on a host.
- 2. Start an empty base container in the interactive mode. For example, start a CentOS container in the interactive mode.

docker run -it centos

3. Run the following commands to install the target software:

yum install XXX

git clone https://github.com/lh3/bwa.git cd bwa;make

Install Git in advance and check whether an SSH key is set on the local host.

- 4. Run the **exit** command to exit the container.
- 5. Create a snapshot.

docker commit -m "xx" -a "test" container-id test/image:tag

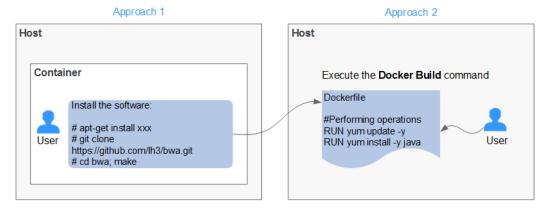
- -a: indicates the author of the base image.
- container-id: indicates the ID of the container you have started in step 2.
 You can run the docker ps -a command to query the container ID.
- **-m**: indicates the commit message.
- **test/image:tag**: indicates the repository name/image name:tag name.
- 6. Run the **docker images** command to list the built container image.

Approach 2: Creating a Dockerfile to Build an Image

This approach is suitable for images that will be frequently updated. In **Approach 1**, you create a snapshot of the whole container. This could be demanding if you need to frequently update your images. In this case, **Approach 2** is put forward to automate the image build process.

The idea behind **Approach 2** is to write the process of **Approach 1** into a Dockerfile and then run the **docker build -t test/image:tag.** command to automatically build an image from the Dockerfile. In the preceding command, . indicates the path to the Dockerfile.

Figure 1-3 Creating a Dockerfile to build an image



Example Dockerfile:

□ NOTE

If an external network is required, ensure that network connectivity is available.

```
#Version 1.0.1
FROM centos:latest
# Setting the root user as the executor of subsequent commands
# Performing operations
RUN yum update -y
RUN yum install -y java
# Using && to concatenate commands
RUN touch test.txt && echo "abc" >>abc.txt
# Setting an externally exposed port
EXPOSE 80 8080 1038
# Adding a network file
ADD https://www.baidu.com/img/bd_logo1.png /opt/
# Setting an environment variable
ENV WEBAPP_PORT=9090
# Setting a work directory
WORKDIR /opt/
# Setting a start command
ENTRYPOINT ["ls"]
# Setting start parameters
CMD ["-a", "-l"]
# Setting a volume
VOLUME ["/data", "/var/www"]
# Setting the trigger operation for a sub-image
ONBUILD ADD . /app/src
ONBUILD RUN echo "on build executed" >> onbuild.txt
```

Basic Syntax of Dockerfile

• FROM:

It is used to specify the parent image (base image) from which you are building a new image. Except annotations, a Dockerfile must start with a FROM instruction. Subsequent instructions run in this parent image environment until the next FROM instruction appears. You can create multiple images in the same Dockerfile by adding multiple FROM instructions.

MAINTAINER:

It is used to specify the information about the author who creates an image, including the username and email address. This parameter is optional.

RUN:

It is used to modify an image. Generally, RUN commands are executed to install libraries, and install and configure programs. After a RUN command is executed, an image layer will be created on the current image. The next command will be executed on the new image. The RUN statement can be in one of the following formats:

RUN yum update: Command that is executed in the /bin/sh directory.

- RUN ["yum", "update"]: Directly invoke exec.
- **RUN yum update && yum install nginx**: Use **&&** to connect multiple commands to a RUN statement.

EXPOSE:

It is used to specify one or more network ports that will be exposed on a container. If there are multiple ports, separate them by spaces.

When running a container, you can set **-P** (uppercase) to map the ports specified in EXPOSE to random ports on a host. Other containers or hosts can communicate with the container through the ports on the host.

You can also use **-p** (lowercase) to expose the ports that are not listed in EXPOSE.

• ADD:

It is used to add a file to a new image. The file can be a host file, a network file, or a folder.

- First parameter: source file (folder)
 - If a relative path is used, this path must correspond to the directory where the Dockerfile is located.
 - If a URL is used, the file needs to be downloaded first and then added to the image.
- Second parameter: target path
 - If the source file is in the .zip or .tar file, the container engine decompresses the file and then adds it to the specified location of the image.
 - If the source file is a compressed network file specified by a URL, the file will not be decompressed.

VOLUME:

It is used to create a mount point for a specified path (file or folder) in the image. Multiple containers can share data through the same mount point. Even if one of the containers is stopped, the mount point can still be accessed.

WORKDIR:

It is used to specify a new work directory for the next command. The directory can be an absolute or a relative directory. WORKDIR can be specified multiple times as required. When a container is started, the directory specified by the last WORKDIR command is used as the current work directory of the container.

ENV:

It is used to set an environment variable for running the container. When running the container, you can set **-e** to modify the environment variable or add other environment variables.

Example:

docker run -e WEBAPP_PORT=8000 -e WEBAPP HOST=www.example.com ...

CMD:

It is used to specify the default command for starting a container.

ENTRYPOINT:

It is used to specify the default command for starting a container. Difference: For ENTRYPOINT, parameters added to the image during container running will be spliced. For CMD, these parameters will be overwritten.

- If the Dockerfile specifies that the default command for starting a container is ls -l, the default command ls -l will be run accordingly. For example:
 - **ENTRYPOINT** ["ls", "-l"]: The program and parameter for starting a container are set to be ls and -l respectively.
 - docker run centos: The docker run centos ls -l command is run by default for starting a CentOS container.
 - docker run centos -a: When the -a parameter is added for starting a CentOS container, the docker run centos ls -l -a command is run by default.
- If the Dockerfile specifies that the default command for starting a container is --entrypoint but you need to replace the default command, you can add --entrypoint parameters to replace the configuration specified in Dockerfile. Example:

docker run gutianlangyu/test --entrypoint echo "hello world"

USER:

It is used to specify the user or UID for running the container, and running the RUN, CMD, or ENTRYPOINT command.

• ONBUILD:

Trigger command. During image build, the image builder of the container engine saves all commands specified by the ONBUILD command to the image metadata. These commands will not be executed in the process of building the current image. These commands will be executed only when a new image uses the FROM instruction to specify the parent image as the current image.

Using the FROM instruction to build a child image based on the parent image created by the Dockerfile:

ONBUILD ADD. /app/src: The **ADD. /app/src** command is automatically executed.

1.4 How Do I Create an Image Package?

Run the **docker save** command to compress the container image into a .tar or .tar.gz package. The command format is as follows:

docker save [OPTIONS] IMAGE [IMAGE...]

[OPTIONS] can be set to **--output** or **-o**, indicating that the image is exported to a file.

Example:

\$ docker save nginx:latest > nginx.tar \$ ls -sh nginx.tar 108M nginx.tar \$ docker save php:5-apache > php.tar.gz \$ ls -sh php.tar.gz 372M php.tar.gz

> \$ docker save --output nginx.tar nginx \$ ls -sh nginx.tar 108M nginx.tar

\$ docker save -o nginx-all.tar nginx \$ docker save -o nginx-latest.tar nginx:latest

1.5 Are There Quotas for SWR Resources?

No quotas are imposed on SWR images. You can push as many images as you need.

Quotas are imposed on the number of organizations a user can create, as shown in **Table 1-1**.

Table 1-1 SWR resource quotas

Resource Type	Quota
Organization	5

1.6 Why Does Organization Creation Fail?

Symptom: The creation of an organization fails, and a message is displayed indicating that the organization already exists. However, the organization is not found on the **Organizations** page.

Solution: Change the organization name to one which is globally unique in the Region.

If a message is displayed indicating that the organization already exists, the organization name may have been used by another user. Use another organization name.

$\mathbf{2}_{\mathsf{Logins}}$

What Do I Do If Authorization Failure Occurs When I Log In to the SWR Console for the First Time?

Symptom: When you log in to the SWR console for the first time, after you click **OK** in the **Authorization Description** dialog box, the authorization failed.

1 Authorization Description

Permissions to access the following cloud services are required:

- Cloud Container Engine (CCE)

 SWR works with CCE to deploy your images on the clusters
- Cloud Container Instance (CCI)

 SWR works with CCI to create containers from your images.

ОК

Solution

- If you have not completed real-name authentication, complete it.
- If your account is in arrears, renew it.

What Are the Differences Between Long-Term and Temporary Login Commands?

- Temporary login commands expire 6 hours after they are generated. A temporary login command can be used for temporary use or one-time authorization. For production clusters that require high security, it can be used with periodic refresh.
- Long-term login commands are permanently valid. A long-term login command can be used for preliminary tests, CI/CD pipelines, and image pull to container clusters.
- After you obtain a long-term login command, your temporary login commands can still be valid as long as they are in their validity periods.
- Both long-term and temporary login commands can be used by multiple users at the same time.

2.1 What Are the Differences Between Long-Term and Temporary Login Commands?

- Temporary login commands will expire after 6 hours. A temporary login command can be used in scenarios such as temporary use and one-time external authorization. For production clusters that have high security requirements, it can also be used with periodic refresh.
- Long-term valid login commands are permanently valid. A long-term valid login command can be used in scenarios such as preliminary tests, CI/CD pipelines, and image pull from container clusters.
- After you obtain a long-term valid login command, your temporary login commands will still be valid as long as they are in their validity periods.
- The long-term valid and temporary login commands can be used by multiple users to log in to the system at the same time.

2.2 What Do I Do If the Temporary Login Command Expired?

Clear your browser cache and generate a new login command. The new login command will expire in six hours.

3 Image Push

How Do I Push an Image to SWR by Calling an API?

Currently, SWR does not provide an API for pushing images. You can push images using a container engine client or through the SWR console.

Why Is an Image Pushed to SWR Using a Container Engine Client Different in Size from One Uploaded Through the SWR Console?

Symptom

Assume that a nginx image of v2.0.0 is created on the local Docker client. The **docker images** command is run to guery **SIZE** of the image. The size is 22.8 MB.

```
$ docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

nginx v2.0.0 22f2bf2e2b4f 9 days ago 22.8MB
```

- 1. Run **docker push** to push the image to SWR. The size of the image is **9.5 MB**.
- 2. On the local Docker client, pack the image into a .tar package. Download the nginx.tar package to the local host, and upload the package to SWR. The size of the package is 23.2 MB.

The size of the image pushed through the client is different from that of the image uploaded through the SWR console.

Possible Cause

Image layers are compressed into .tgz packages when images are pushed to SWR using a container engine client, whereas when they are uploaded through the SWR console, they are only packed without being compressed. Therefore, the same image will be of different sizes when it is uploaded in these two different ways.

Can I Push Arm-based Container Images to SWR?

SWR has no restriction on the kernel architecture of images. There is no difference between pushing an Arm-based image and an x86-based image to SWR.

What Protocol Is Used to Push Images to SWR When I Run the docker push Command?

HTTPS is used.

Will an Image Be Overwritten If I Push an Image That Has the Same Name and Tag with it?

Yes. The image will be overwritten.

What Is the Maximum Size of an Image Layer?

If you use the container engine client to push images to SWR, each image layer cannot exceed 10 GB.

What Is the Rate Limit for a Tenant to Push Images over the Internet?

To avoid mutual interference between tenants when they push SWR images, the image push traffic for a single tenant is limited to 20 QPS. The traffic exceeding this value will be blocked. In this case, Docker will receive 503 and automatically retry traffic control requests.

Does SWR Support Resumable Image Push?

No.

4 Image Pull

How Do I Pull an Image from SWR by Calling an API?

Currently, SWR does not provide an API for pulling images. You can use a container engine client to pull images. For Docker, run **docker pull**. For containerd, run **crictl pull**.

Where Are the Images Pulled by docker pull Stored?

Images pulled by running the **docker pull** command are stored on your local hosts. You can run the **docker save** command to save images into TAR archive files.

Can I Pull Images from Another Region?

Cross-region image pull over public network is supported.

Cross-region image pull over public network is supported. Ensure that you have obtained the correct login command.

Can I Access SWR over a Private Network? Will I Be Charged for Pushing and Pulling Images over a Private Network?

If your machine and the image repository are in the same region, you can access the image repository over private networks. No additional fees are charged for private network access because you have paid for your servers and EIPs.

If your machine and the image repository are in different regions, the node must have access to public networks to pull images from the image repository.

Can I Pull Images on the SWR Console to a Local PC?

Images stored in SWR cannot be directly downloaded through the console. You can perform the following operations to pull the images:

- 1. Obtain the image pull command on the image details page.
- Run the obtained command on the device where the Docker client is installed.
- 3. Save the image as a TAR or TAR.GZ file. Example:

docker save nginx:v1 > nginx.tar

4. Download the file to the local host.

What Are the Possible Causes of Slow Image Pull?

- The network is abnormal.
- 2. There are multiple image layers.
- 3. Image pull tasks are serially executed. A task cannot be executed until the previous task is complete. The timeout interval for a pull task is 30 minutes.

Will a Pulled Image Overwrite an Existing Image with the Same Name and Tag?

If they have the same manifest, the existing image will not be overwritten. Otherwise, it will be overwritten.

5 Image Management FAQs

5.1 Image Push and Pull

How Do I Push an Image to SWR by Calling APIs?

Currently, SWR does not provide APIs for image push. You can push images using the **docker push** command on a client or using the SWR console.

How Do I Pull an Image from SWR by Calling APIs?

Currently, SWR does not provide APIs for image pull. You can pull images using the **docker pull** command on a client.

Can I Push Arm-based Container Images to SWR?

SWR has no restriction on the kernel architecture of images. There is no difference between pushing an Arm-based image and an x86-based image to SWR.

What Protocol Is Used to Push Images to SWR When I Run the docker push Command?

HTTPS is used.

Will an Image Be Overwritten If I Push an Image That Have the Same Name and Tag with it?

Yes, the original image will be overwritten.

Where Are the Images Pulled by Running the docker pull Command Stored?

Images pulled by running the **docker pull** command are stored on your local hosts. You can run the **docker save** command to save images into TAR archive files.

What Is the Maximum Size of an SWR Layer?

If you use the container engine client to push images to SWR, each image layer cannot exceed 10 GB.

5.2 Can I Pull Images from SWR to a Local PC?

Container images cannot be downloaded from the SWR console, but you can run commands to pull them.

- 1. Obtain the image pull command on the image details page.
- 2. Run the pull command on the Docker client. Example:

docker pull {/mage-repository-address}/group/nginx:v1

3. Save the image as a tar or tar.gz package. Example:

docker save nginx:v1 > nginx.tar

4. Download the package to your local PC.

6 Troubleshooting

6.1 Why Does the Login Command Fail to Be Executed?

Possible causes are as follows:

1. The container engine is not properly installed, in which case the following error is reported:

docker: command not found

Solution: Reinstall the container engine.

- Only Docker 18.06 or later is supported. Download the corresponding version.
- If the container engine client is in a private network, bind an elastic IP address (EIP) to the client. This EIP will allow the client to download installation packages from the website.
- 2. The temporary login command has expired, or the regional project name, AK, or login key in the command is invalid. Error:

unauthorized: authentication required

Solution: Log in to the SWR console. In the navigation pane on the left, choose **My Images**. On the page displayed, click **Upload Through Client**.

Then click \square to copy the login command.

3. The image repository address in the login command is incorrect, in which case the following error is reported:

Error logging in to v2 endpoint, trying next endpoint: Get https:// {{endpoint}}/v2/: dial tcp: lookup {{endpoint}} on xxx.xxx.xxx.xxx:53 : no such host

Solutions:

- a. Change the image repository address in the login command.
- b. Generate a temporary login command. For detailed instructions, see 2.
- 4. x509: certificate has expired or is not yet valid

The preceding error is reported when the AK/SK in the login command with long-term validity is deleted. In this case, use a valid AK/SK to generate a login command.

5. x509: certificate signed by unknown authority

Possible Causes:

The container engine client communicates with SWR through HTTPS. The client verifies the server certificate. If the server certificate is not issued by an authoritative organization, the following error message is displayed: "x509: certificate signed by unknown authority"

Solutions:

If you trust the server and skip certificate authentication, manually configure Docker startup parameters as follows:

CentOS:

Modify the /etc/docker/daemon.json file. If the file does not exist, manually create it. Add the following content to the file:

```
[
"insecure-registries": ["{Image repository address}"]
```

Ubuntu:

Modify the /etc/default/docker file and add the following content to DOCKER_OPTS:

DOCKER_OPTS="--insecure-registry {image repository address}"

EulerOS:

Modify the /etc/sysconfig/docker file and add the following content to INSECURE REGISTRY:

INSECURE_REGISTRY='--insecure-registry {image repository address}'

The image repository address can be a domain name or an IP address.

- To obtain the image repository address in domain name format, obtain a temporary login command by referring to 2. The domain name at the end of the command is the image repository address.
- To obtain the image repository address in IP address format, ping the image repository address in the domain name format.

After the configuration, run the **systemctl restart docker** command to restart the container engine.

6.2 Why Does an Image Fail to Be Pushed Through a Container Engine Client?

denied: you do not have the permission

Problem: When you push an image to SWR through your container engine client, the operation fails with the following information returned.

denied: you do not have the permission

Possible Causes:

 The organization name you specified has already been used by another user or the maximum number of organizations that you are allowed to create has been reached. FAQs

• The **docker login** command you used to log in to SWR is generated using the AK and SK of an IAM user who does not have the permission of the target organization.

Solutions:

- If the organization name has been registered by another user, create an organization and then upload the image.
- If the number of SWR organizations has reached the quota (5 per user), push the image to an existing organization.
- If the IAM user does not have the permission of the target organization, log in using the cloud account and grant the permission to the IAM user. Then, try again.

Message "tag does not exist: xxxxxx" or "An image does not exist locally with the tag: xxxxxx" Displayed

Problem: When you push an image to SWR through your container engine client, the operation fails with the following information returned.

tag does not exist: xxxxxx

Or

An image does not exist locally with the tag: xxxxxx

Possible cause: The image or image tag to be pushed does not exist.

Solution: Run the **docker images** command to view all the local images. Check the target image name and tag, and push the image again.

name invalid: 'repository' is invalid

Problem: When you push an image to SWR through your container engine client, the operation fails with the following information returned.

name invalid: 'repository' is invalid

Possible cause: The organization name or image name does not comply with the naming rules.

Solution: The regular expressions of the organization (namespace) name and image (repository) name are as follows:

namespace: The value contains a maximum of 64 characters and must meet regular expression ^([a-z]+(?:(?:-|_|[-]*)[a-z0-9]+)+)?)\$.

Specify a valid organization name or image name, and push the image again.

6.3 Why Does an Image Fail to Be Uploaded Through SWR Console?

SWR has strict requirements on image name and address format. Invalid image names or addresses could lead to upload failures.

Invalid Image Format

Problem: When you upload an image to SWR through the SWR console, an error message is displayed, indicating that the image format is invalid.

Possible cause: Invalid image address leads to upload failure.

The image tag, which is at the end of an image address, can be omitted. When it is omitted, the latest version of the image will be pushed. Other parts of the image address cannot be omitted. Ensure that they are all correctly configured.

Example: registry.example.com/repo_namespace/repo_name:tag

- **registry.example.com** is an example address of the SWR image repository. Replace it with the actual address.
- **repo_namespace**: organization name. It contains a maximum of 64 characters and must meet regular expression ^([a-z]+(?:(?:(?:_|__|[-]*)[a-z0-9]+)+)?)\$.
- repo_name:tag: image name and tag. The image name contains a maximum of 128 characters and must meet regular expression ^([a-z0-9]+(?:(?:_|__| [-]*)[a-z0-9]+)+)?)\$.

To view the image address, decompress the image. Open the **manifest.json** file, and check the value of **RepoTags**.

Figure 6-1 Files in the decompressed package



Solution: Tag the image again according to the naming rules. Run the **docker save** command, and upload the image on the SWR console.

Stuck at the Upload Page Until It Times Out

Problem: When you upload an image to SWR through the SWR console, the upload progress is stuck and the upload task times out at the end.

Possible cause: Invalid image name leads to upload failures.

Solution: Modify the image name according to the naming rules, and try uploading the image again.

NOTICE

It is the image name in the **repositories** and **manifest.json** files that should be checked and modified rather than the name of the image file you select and upload on the SWR console.

6.4 Why Does the docker pull Command Fail to Be Executed?

x509: certificate signed by unknown authority

Problem: When you run the **docker pull** command to pull an image from SWR, error message "x509: certificate signed by unknown authority" is displayed.

Possible Causes:

- A container engine client and SWR communicate with each other using HTTPS. When the client verifies the server certificate and finds that the root certificate installed on the client is incomplete, the error message "x509: certificate signed by unknown authority" is displayed.
- A proxy is configured on the container engine client.

Solution:

- If you trust the server and skip certificate authentication, manually configure the startup parameters for the container engine using either of the following methods (use the actual image repository address):
 - Add the following configuration to the /etc/docker/daemon.json file. If the file does not exist, manually create it. Ensure that two-space indents are used in the configuration.

```
"insecure-registries":["Image repository address"]
```

/etc/sysconfig/docker:
 INSECURE_REGISTRY='--insecure-registry=Image repository address'

After configuration, run the **systemctl restart docker** or **service docker start** command to restart the container engine.

• Run the **docker info** command to check whether the proxy is correctly configured. If not, modify the configuration.

Error: remote trust data does not exist

Problem: When you run the **docker pull** command to pull an image from SWR, message "Error: remote trust data does not exist" is displayed.

Possible cause: The image signature verification is enabled on the client. However, the image to be pulled does not contain a signature layer.

Solution: Check whether the environment variable **DOCKER_CONTENT_TRUST** is set to **1**. If yes, delete **DOCKER_CONTENT_TRUST=1** from the **/etc/profile** file and run the **source /etc/profile** command to make the modification take effect.

7 Other FAQs

7.1 Why Does a CCE Workload Cannot Pull an Image from SWR and the Message Indicating "Not Logged In" Is Displayed?

If a CCE workload cannot pull an SWR image and the message indicating "Not logged in" is displayed, check whether the YAML file of the workload contains the **imagePullSecrets** field and whether the value of **name** is fixed to **default-secret**.

Example:

```
apiVersion: extensions/v1beta1
kind: Deployment
metadata:
 name: nginx
spec:
 replicas: 1
 selector:
  matchLabels:
   app: nginx
 strategy:
  type: RollingUpdate
 template:
  metadata:
   labels:
    app: nginx
    containers:
    - image: nginx
     imagePullPolicy: Always
     name: nginx
    imagePullSecrets:
    - name: default-secret
```

7.2 Why Is an Image Pushed Using a Container Engine Client to SWR Different in Size From One Uploaded Through the SWR Console?

Symptom

Assume that a nginx image of v5 is created on the local Docker client. The **docker images** command is run to query **SIZE** of the image. The size is 22.8 MB.

 \$ docker images

 REPOSITORY
 TAG
 IMAGE ID
 CREATED
 SIZE

 nginx
 v5
 22f2bf2e2b4f
 9 days ago
 22.8MB

- 1. Run the **docker push** command to push the image to SWR. The size of the image is 9.5 MB.
- 2. On the local Docker client, pack the image into a .tar package. Download the **nginx.tar** package to the local host, and upload the package to SWR. The size of the package is 23.2 MB.

The size of the image pushed through the client is different from that of the image uploaded through the SWR console.

Possible Cause

Image layers are compressed into .tgz packages when images are pushed to SWR using a container engine client, whereas when they are uploaded through the SWR console, they are only packed without being compressed. Therefore, the same image will be of different sizes when it is uploaded in these two different ways.