



Set Up Container Registry

This module describes how to set up a container registry.

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The steps to set up a container registry for both XRd vRouter and XRd Control Plane are the same, except the image download path, and the naming of respective repositories. You can name the control-plane repository as "xrd-control-plane" to avoid confusion.

- To download the XRd vRouter tarball, go to [Software Download](#).
- To download XRd Control Plane tarball, go to [Software Download](#).

The container image is saved inside this tarball, and you must extract and verify it before use.

To set up a container registry, perform the following steps:

1. Go to the directory where the tarball has been downloaded, extract the tarball using the following command:

```
tar zxvf xrd-vrouter-container-x86.7.8.1.tgz
```

2. To ensure that the image isn't corrupted, run the following python script and verify the signature.

```
cd xrd-vrouter-container-x86.7.8.1
python3 cisco_x509_verify_release.py3 \
-e IOS-XR-SW-XRd.crt \
-i xrd-vrouter-container-x64.docker.v1.tgz \
-s xrd-vrouter-container-x64.docker.v1.tgz.signature \
-v smime --container xr --sig_type DER
```

The following is a sample output:

```
Retrieving CA certificate from http://www.cisco.com/security/pki/certs/crrca.cer ...
Successfully retrieved and verified crrca.cer.
Retrieving SubCA certificate from http://www.cisco.com/security/pki/certs/xrcrrsca.cer
...
Successfully retrieved and verified xrcrrsca.cer.
Successfully verified root, subca and end-entity certificate chain.
Successfully verified the signature of xrd-vrouter-container-x64.docker.v1.tgz using
IOS-XR-SW-XRd.crt
```

3. Create an ECR repository to host the image.

```
aws ecr create-repository --repository-name xrd-vrouter
```

4. Log into the repository using a container image tool. This example uses `skopeo`, but you can also use `docker` or `podman`.

```
aws ecr get-login-password --region <region> | skopeo login --username AWS
--password-stdin <repository-uri>
```

5. Copy the image using `skopeo`, or `load`, `tag`, and push the image using `docker` or `podman`. For example,

```
skopeo copy \
  "docker-archive:xrd-vrouter-container-x64.dockerv1.tgz" \
  "docker://<repository-uri>:7.8.1"
```

Or,

```
docker load -i xrd-vrouter-container-x64.dockerv1.tgz
docker tag <image-tag> <repository-uri>:7.8.1
docker push <repository-uri>:7.8.1
```