

# Set Up Container Registry

This module describes how to set up a container registry.


- Set Up a Container Registry, on page 1


# Set Up a Container Registry

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-x86.25.2.1.tgz
   ```

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

   ```
   cd xrd-vrouter-container-x86.25.2.1
   python3 cisco_x509_verify_release.py3 \
     -e IOS-XR-SW-XRd.crt \
     -i xrd-vrouter-container-x64.dockerv1.tgz \
     -s xrd-vrouter-container-x64.dockerv1.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.dockerv1.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>:25.2.1"
```

Or,

```
docker load -i xrd-vrouter-container-x64.dockerv1.tgz
```

```
docker tag <image-tag> <repository-uri>:25.2.1
```

```
docker push <repository-uri>:25.2.1
```