

# Lesson Guide - Working with Container Images Using Podman and Skopeo - Part 2

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Container images are a key part of Podman. In this lesson, we'll examine how to manage container images using Skopeo. Upon completion of this lesson, you will have a solid understanding of how and when to use Skopeo to manage your container images.

## Resources

[Building, Running, and Managing Linux Containers on Red Hat Enterprise Linux 8 - Working with Container Images](#)

### Container Registry Information:

[What Is a Container Registry? - Red Hat](#)

[How to Implement a Simple Personal/Private Linux Container Image Registry for Internal Use - Red Hat](#)

## Instructions

### We need to get our container images in order!

Before we start working with Podman containers, we're going to want some container images to work with. We're going to take a look at how we can use `podman` and `skopeo` to manage container images. We'll explore how we can use `podman` and `skopeo` to retrieve container images, display image information, and more.

### Let's check it out!

### Managing Container Images Using Skopeo

Even though the `podman` command can be used to perform container image management, to take things to the next level requires `skopeo`. How does `skopeo` work?

Let's look at a couple of helpful `skopeo` commands that will help keep you grounded.

If you need to check the version of `skopeo` you're running, use:

```
skopeo --version
```

To get help, or explore all the possibilities of the `skopeo` command:

```
skopeo --help
```

You can also get help on subcommands:

```
skopeo inspect --help
```

We'll grab the latest **ubi7** image from the **registry.access.redhat.com** registry:

```
podman pull registry.access.redhat.com/ubi7/ubi:latest
```

Checking our local container images:

```
podman image list
```

We now have a local image to work with.

Let's log in to our local registry, using **registryuser** and **registryuserpassword**:

```
skopeo login localhost:5000
```

We can use **skopeo** to copy a container image directly from one registry to another:

```
skopeo copy docker://registry.access.redhat.com/ubi7/ubi:latest  
docker://localhost:5000/ubi7/ubi
```

In this case, we are copying the **ubi7/ubi:latest** image from the Red Hat registry to our local registry, using the Docker transport.

We can use **skopeo sync** to copy images from one location to another:

```
skopeo sync --src docker --dest docker --scoped  
registry.access.redhat.com/ubi7/ubi:latest localhost:5000/ubi7/ubi
```

We can use **skopeo inspect** to get more information on a container image:

```
skopeo inspect docker://localhost:5000/ubi7/ubi:latest | more
```

We can also use **skopeo** to list the tags on an image:

```
skopeo list-tags docker://localhost:5000/ubi8/ubi
```

So, using **podman** to search our local registry:

```
podman search localhost:5000/ubi
```

We can see our **ubi** images.

Let's wrap it up, and log out:

```
skopeo logout localhost:5000
```

Our work here is complete!

## Notes

Recording - Environment used: Cloud Playground - Medium 3 unit RHEL 8 Cloud Server

### Environment Setup:

Create your Cloud Playground server and log in.

### Install Podman and Configure a Container Registry:

Install, enable, and start firewall services:

```
sudo yum -y install firewall* skopeo
```

```
sudo systemctl enable --now firewalld
```

Set up a container registry:

[How to Implement a Simple Personal/Private Linux Container Image Registry for Internal Use - Red Hat](#)

I used **localhost** for the hostname, as I'm going to access the container registry using **localhost**.

You're ready to go!