

Image Management with Glance



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Objectives



Glance Services

Disk Formats

Container Formats

Creating Image Files

Managing Images with Glance



```
# systemctl | grep glance
```

Glance Services

The API service accepts incoming requests to the server.

The Registry service stores and retrieves metadata about Glance Images

Both configuration files can be found in `/etc/glance` on the server.



Verify the Glance Services



Disk Formats

| Type | Description |
|------|-------------|
|------|-------------|



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|------|--------------------------------|
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| ami | Amazon Machine images |



Container Formats

| Type | Description |
|--------|-----------------------------------|
| bare | There is no metadata in the image |
| ovf | OVF container format |
| ova | OVA tar archive |
| docker | Docker archive |



```
# yum whatprovides *virt-builder
# yum install -y libguestfs-tools
# virt-builder -l
# cd /tmp
# virt-builder centos-7.3 --format qcow2 \
  --install "cloud-init,epel-release,vim" --selinux-relabel
```

Download and Customize Images

As we are working with a CentOS host it is easy to use virt-builder to download and customize images. We always add cloud-init to images as this is used to help customize images as they first boot into instances.



```
# openstack image create --disk-format qcow2 \  
  --container-format bare --public \  
  --file centos7.3 centos7
```

Create Image from the CLI

Having created the image file we can create an OpenStack Image



Working with Images at the CLI



Glance is the OpenStack image service, allowing for rapid deployment of virtual machine instances



Summary



Glance API Service

Glance Registry Service

Disk Format

Container Format

libguestfs-tools

virt-builder

openstack image create



Next up: Managing Block
Storage with Cinder

