



# Linux Clusters Institute: OpenStack Glance

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# Glance Basics

- Maintains read only images with metadata in a storage system
- Upload and Download
- Can convert image types if workers enabled (rarely used)
- Supports backends that do Copy On Write cloning (Ceph, GPFS)
- Metadata used to control how instances are created from image (scsi vs sata, hardware flavors, etc)

# Glance Details

- When using Ceph images are actually cloneable snapshots named "snap"
- Unless using the secret store service MD5 sums are used as checksums
- Secret store service(Barbican) allows images to be signed
- RHEL 7 derived images are all XFS based, XFS cannot be shrunk

# Deployment Considerations

- Relatively easy to deploy in Active-Active as there are no message based RPC components
- Can use significant bandwidth, be mindful of the root disk size for images
- This service is the largest determining factor in boot times for instances

# Resources

- Admin Guide  
<https://docs.openstack.org/glance/latest/admin/>
- Deployment Guide  
<https://docs.openstack.org/glance/latest/install/>

# Questions