Module 11





Module 11 Objectives

By the end of this lecture module, you should be able to explain:

- Manual deployment process
- DevStack
- Automation based OpenStack deployments (RackN, OSP Director (RDO Manager), Fuel (+Community edition), Juju (and Conjure-Up)), Suse Cloud, TripleO
- Kolla (OpenStack as containers)
- Big Tent tools Puppet/Chef/Ansible/Salt



Manual Installation

- Specifics are found in the OpenStack docs
- Useful as a learning tool to understand install process and integrations
- Not intended (or really good for) production deployments



Automation-based Deployments

- RackN
- OSP Director
- Fuel (and Community edition)
- Juju (and Conjure-Up)
- Suse Cloud
- OpenStack TripleO Project (~RDO Manager)



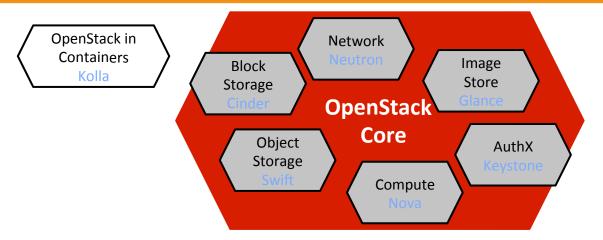








OpenStack Deployment in Containers (Kolla)



What is it?

- Production-ready containers and deployment tools for operating OpenStack clouds
- Provides Docker containers and Ansible playbooks to deploy Openstack

What can it do?

- Allows operators with minimal experience to deploy OpenStack quickly
- Simplifies modification of deployed OpenStack configurations



DevStack

- Developer toolset
- Single scripted interface
- Flexible 'per service' download of code from git repositories
- All logs broken out in separate screen sessions
- Not intended (or really good for) production deployments





Distribution solutions

- Each distribution has it's own method of installation:
 - RedHat (RedHat, CentOS, Fedora)
 - PackStack scripted puppet runs
 - Canonical (Ubuntu)
 - Juju/MaaS Canonical specific scripting and management toolset
 - SUSE Linux
 - Suse Cloud Chef-based toolset
 - And more...









CAPS and the Big Tent

- Chef/Ansible/Puppet/Salt (CAPS) Big Tent
 - Tools for installing on your own
 - A project under OpenStack CI that includes many "pieces" of projects
 - Puppet based options (e.g. Puppetlabs pieces, other contributed modules)
 - Chef based options (Crowbar, etc.)
 - Other non-incubated projects

