Using OpenStack

Andrew Mallett
LINUX AUTHOR AND TRAINER

@theurbanpenguin www.theurbanpenguin.com

Objectives

- Create OpenStack RC File
- Enable TAB Completion
- Verify Services and Authentication
- Using --debug
- Help

Project > Compute > Access and Security

Create OpenStack RC Files

We can use Horizon to download RC Files for our users. These prompt for the password rather than storing the password in the file.

OpenStack RC Files

```
# openstack

openstack> server TAB TAB

# openstack complete >> adminrc.sh
# openstack complete >> demorc.sh
```

OpenStack Completion

We have tab completion enabled within the interactive openstack command but not on the command line. We can add the completion functions to the run control files.

OpenStack TAB Completion

```
# openstack endpoint list --service compute
# nova service-list

# openstack endpoint list --service image
# openstack image list

# openstack endpoint list --service network
# neutron agent-list

# openstack endpoint list --service cinderv2
# cinder service-list
```

Verify Services

We have seen during the course how we have tested services. Let's remind ourselves

```
# openstack token issue

# openstack user show <user_id>
```

Test Authentication

To test authentication we can use the token issue sub-command. To list the user name we can copy the long user id into the user show sub-command

```
# openstack token issue --debug
```

Debug

To expand upon any potential issue an openstack command can be run with the --debug option

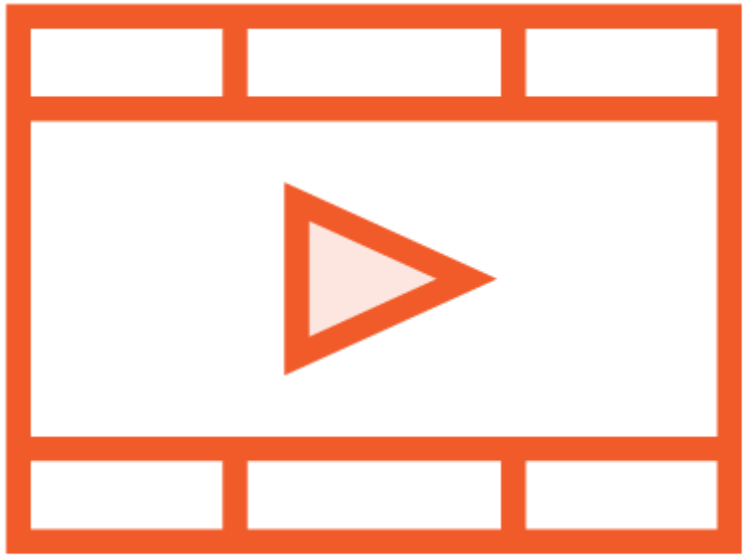
Verify Operation

```
# openstack help compute service list

# openstack openstack compute service list \
  -c Binary -c Host -c Status -c State

# openstack compute service list -f yaml
```

Help

Add help before the sub-command. Many commands that output data allow for the columns to be selected to reduce the screen clutter. We can also choose the output format

Help and Formatting



Finalized the Lab Setup course by summarizing a little of what we have seen during these modules

OpenStack RC Files

TAB Completion

Verify Services and Authentication

Getting Help

Next up: OpenStack: Getting to Know OpenStack and the COA