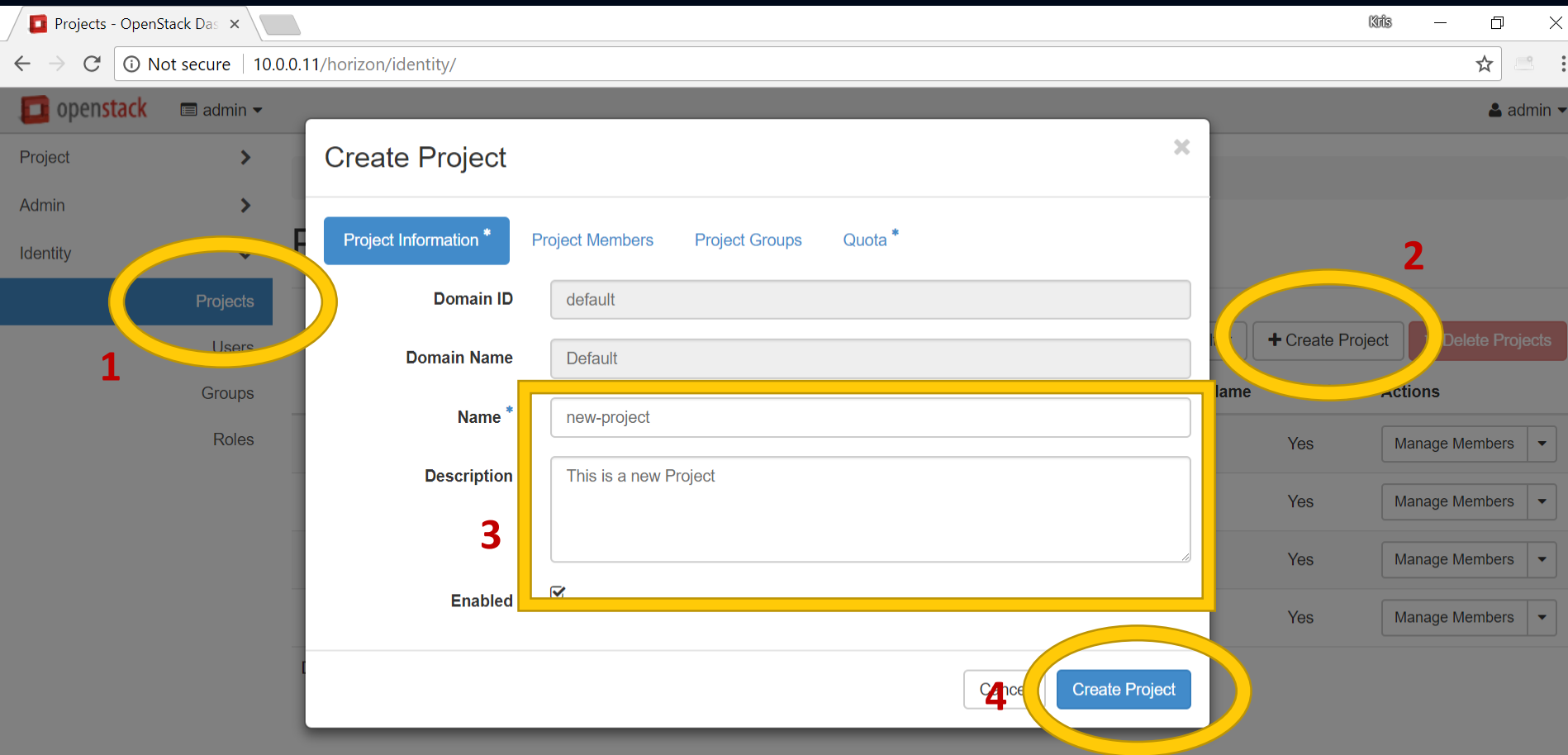


Preparing to **Certified OpenStack Administrator** Exam

Section 4 – Keystone Identity Management

*Lecture 16. OpenStack Identity Management Summary
and Review*

Create a Project



The screenshot shows the OpenStack Horizon interface with the 'Create Project' dialog box open. The dialog has four tabs: 'Project Information *', 'Project Members', 'Project Groups', and 'Quota *'. The 'Project Information *' tab is active. The form fields are as follows:

- Domain ID:** default
- Domain Name:** Default
- Name *:** new-project
- Description:** This is a new Project
- Enabled:** ☒

At the bottom of the dialog are 'Cancel' and 'Create Project' buttons. The background shows the 'Projects' menu item circled in yellow (1), the '+ Create Project' button circled in yellow (2), and a table with 'Manage Members' buttons. The 'Create Project' button at the bottom of the dialog is also circled in yellow (4).

1

2

3

4

Create a User

Users - OpenStack Dashb x

Not secure | 10.0.0.11/horizon/identity/users/

openstack admin

Project > Identity / Users

Admin > Users

Identity > Users

1

2

3

4

Create User

this-is-user-name

Description
Description of the User

Email
user@domain.com

Password *

Confirm Password *

Primary Project
sales-crm

Role
user

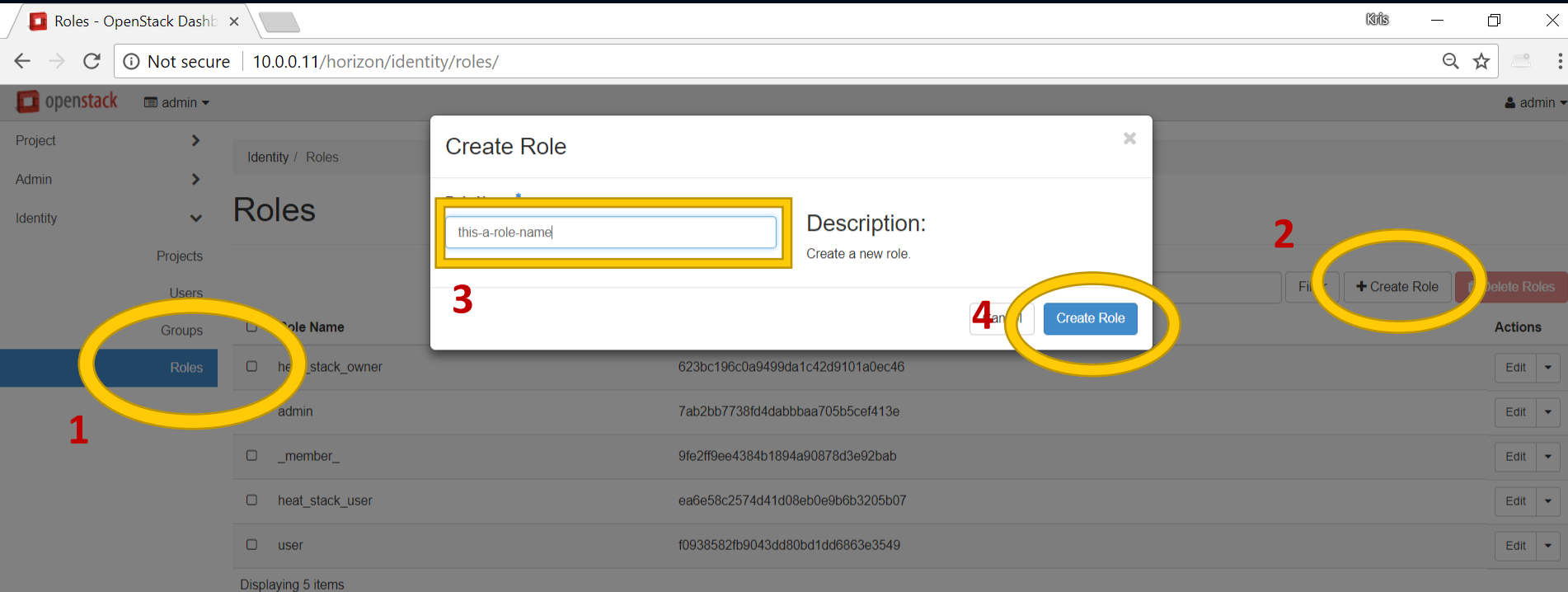
☒ Enabled

Cancel Create User

Enabled	Domain Name	Actions
Yes	Default	Edit
Yes	Default	Edit
Yes	Default	Edit
Yes	-	Edit
Yes	Default	Edit
Yes	Default	Edit
Yes	Default	Edit
Yes	Default	Edit
Yes	Default	Edit
Yes	Default	Edit
Yes	Default	Edit

Displaying 10 items

Create a Role



The screenshot shows the OpenStack Horizon interface with the 'Create Role' dialog box open. The dialog box has a title bar 'Create Role' and a close button. It contains a text input field for the role name, a description field, and a 'Create Role' button. The background shows the 'Roles' page with a table of existing roles and a '+ Create Role' button. Red numbers 1 through 4 are used to highlight specific elements: 1 points to the 'Roles' link in the left sidebar, 2 points to the '+ Create Role' button in the background, 3 points to the role name input field, and 4 points to the 'Create Role' button in the dialog box.

Roles - OpenStack Dashb x

Not secure | 10.0.0.11/horizon/identity/roles/

openstack admin

Project > Identity / Roles

Admin > Roles

Identity > Roles

Projects

Users

Groups

Roles

Role Name

heat_stack_owner

admin

member

heat_stack_user

user

623bc196c0a9499da1c42d9101a0ec46

7ab2bb7738fd4dabbbaa705b5cef413e

9fe2ff9ee4384b1894a90878d3e92bab

ea6e58c2574d41d08eb0e9b6b3205b07

f0938582fb9043dd80bd1dd6863e3549

Displaying 5 items

Description: Create a new role.

3

4

Create Role

2

+ Create Role

Delete Roles

Actions

Edit

Edit

Edit

Edit

Edit

Assign a Role

Projects - OpenStack Dashboard

10.0.0.11/horizon/identity/

openstack admin

Project > Identity / Projects

Admin > Projects

Identity > Projects

Groups

Roles

Displaying 4 items

Edit Project

Project Information * Project Members Project Groups Quota *

All Users

Name	Description
demo	
swift	
glance	
nova	
neutron	
cinder	
heat	

Project Members

Member	Role
admin	admin
amy	admin_user
	heat_stack_owner
	✓ admin
	member
	heat_stack
	✓ user

2

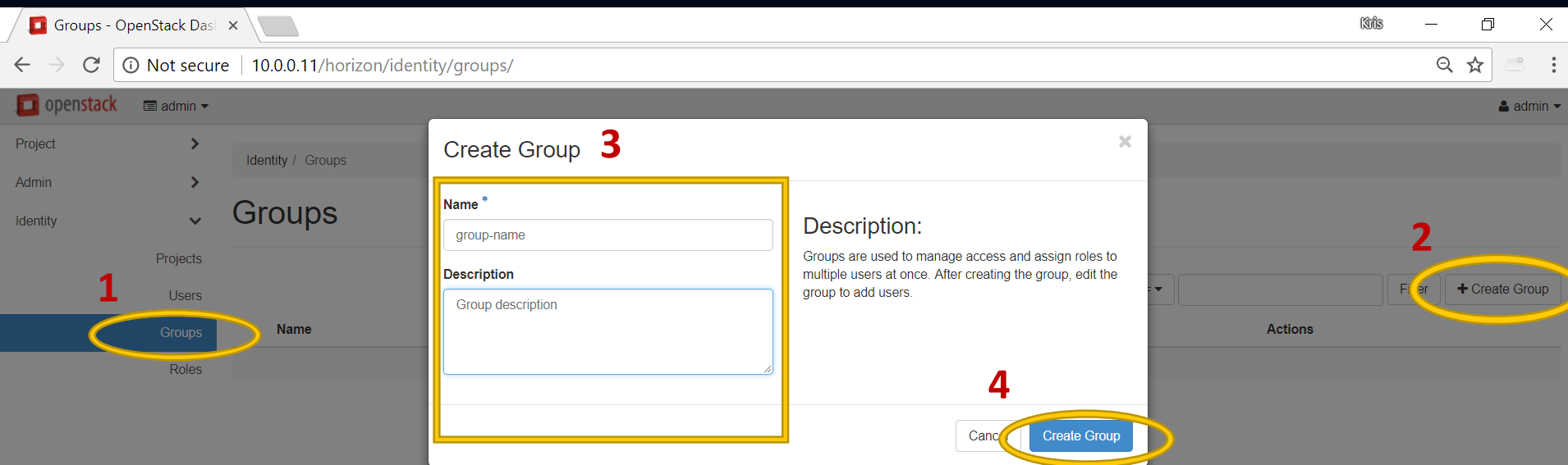
3

4

5

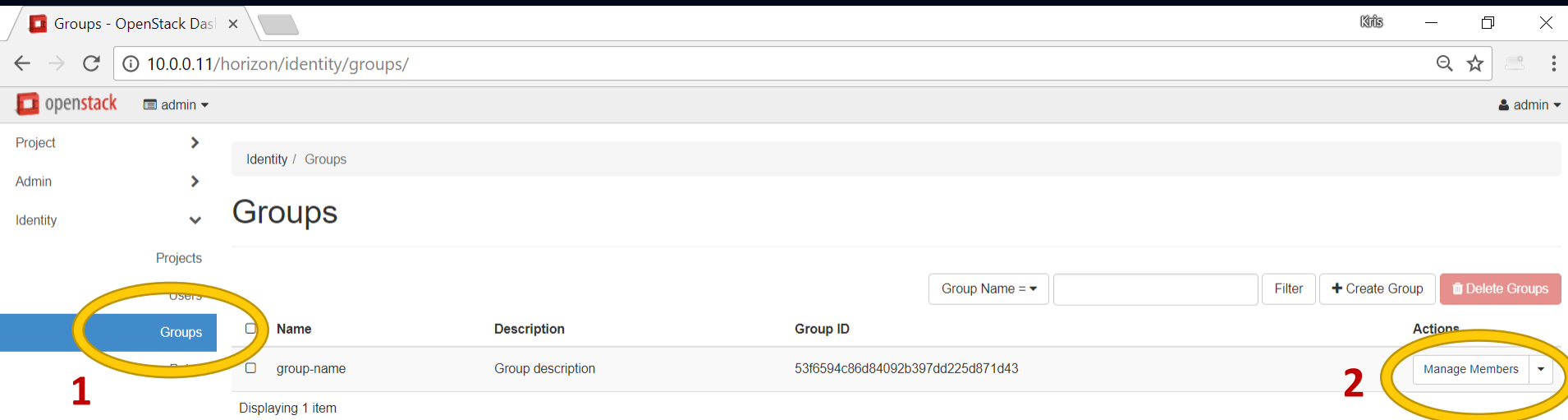
Cancel Save

Create a Group



The screenshot shows the OpenStack Horizon interface for creating a new group. The browser address bar indicates the URL is `10.0.0.11/horizon/identity/groups/`. The interface includes a sidebar with navigation links for Project, Admin, and Identity, with 'Groups' selected under Identity (marked with a red '1' and a yellow circle). The main content area shows the 'Groups' management page with a '+ Create Group' button (marked with a red '2' and a yellow circle). A 'Create Group' dialog box (marked with a red '3') is open, containing a 'Name' field with the placeholder 'group-name' and a 'Description' field with the placeholder 'Group description'. The dialog also includes a 'Description:' section with explanatory text: 'Groups are used to manage access and assign roles to multiple users at once. After creating the group, edit the group to add users.' At the bottom of the dialog, there are 'Cancel' and 'Create Group' buttons, with the 'Create Group' button highlighted by a red '4' and a yellow circle.

Add Users to a Group



Groups - OpenStack Dashboard

10.0.0.11/horizon/identity/groups/

openstack admin

Identity / Groups

Groups

Group Name = Filter [+ Create Group](#) [Delete Groups](#)

<input type="checkbox"/>	Name	Description	Group ID	Actions
<input type="checkbox"/>	group-name	Group description	53f6594c86d84092b397dd225d871d43	Manage Members

Displaying 1 item

Add Users to a Group

Group Management - OpenStack

10.0.0.11/horizon/identity/groups/53f6594c86d84092b397dd225d871d43/manage_members/

openstack admin

Identity / Groups / Group Management

Group Management

Projects

Users

Groups

Roles

User Name

Filter

+ Add Users

<input type="checkbox"/>	User Name	Email	User ID	Enabled
<input type="checkbox"/>	admin		9cb2eb714e7445c5a873835112c95ff5	Yes
<input type="checkbox"/>	demo		29f4cd9af74d449395625c446f9a7832	Yes
<input type="checkbox"/>	swift		63723f8cffe14ce68ca0b731bc7d737a	Yes
<input type="checkbox"/>	glance		c21ef49d26164e14ac5a1e6741103e3f	Yes
<input type="checkbox"/>	nova		a0151e43e08a49119f66286917d8b694	Yes
<input type="checkbox"/>	neutron		d13d2aa4815f4c34bf6978ad12a0d523	Yes
<input type="checkbox"/>	cinder		b452b580e2344c649f045fda7353e8e8	Yes
<input type="checkbox"/>	...		f402e2bdcbae4dc08e29b10e7ce2d08f	Yes
<input checked="" type="checkbox"/>	amy		17e438ccc820456abee1588ad5540ace	Yes

Cancel

Filter

+ Add Users

Enabled

Review Services and Endpoints

System Information - Op x

10.0.0.11/horizon/admin/info/

openstack admin

admin

Project >

Admin >

System >

System Information

Overview

Hypervisors

Host Aggregates

Instances

Volumes

Flavours

Images

Networks

Routers

Floating IPs

Defaults

Metadata Definitions

System Information

Identity >

Admin / System / System Information

System Information

Services Compute Services Block Storage Services Network Agents Orchestration Services

Filter

Name	Service	Region	Endpoints
keystone	identity	RegionOne	Admin http://controller:35357/v3/ Internal http://controller:35357/v3/ Public http://controller:5000/v3/
heat-cfn	cloudformation	RegionOne	Admin http://controller:8000/v1 Internal http://controller:8000/v1 Public http://controller:8000/v1
cinder	volume	RegionOne	Admin http://controller:8776/v1/706418845b734a4db763a7f6d68495eb Internal http://controller:8776/v1/706418845b734a4db763a7f6d68495eb Public http://controller:8776/v1/706418845b734a4db763a7f6d68495eb
neutron	network	RegionOne	Admin http://controller:9696 Internal http://controller:9696 Public http://controller:9696
glance	image	RegionOne	Admin http://controller:9292 Internal http://controller:9292 Public http://controller:9292
nova	compute	RegionOne	Admin http://controller:8774/v2.1/706418845b734a4db763a7f6d68495eb Internal http://controller:8774/v2.1/706418845b734a4db763a7f6d68495eb Public http://controller:8774/v2.1/706418845b734a4db763a7f6d68495eb
cindenv2	volumev2	RegionOne	Admin http://controller:8776/v2/706418845b734a4db763a7f6d68495eb Internal http://controller:8776/v2/706418845b734a4db763a7f6d68495eb

CLI Review

```
$ openstack domain create --description ".." --enable \  
domain-name
```

```
$ openstack domain list
```

```
$ openstack project create --description ".." --enable \  
--domain <domain-name> \  
project-name
```

```
$ openstack project list --long
```

```
$ openstack project list --long --domain <domain-name>
```

```
$ openstack user list --project <project-name>
```

CLI Review

```
$ openstack user create --domain <domain> \  
  --project <primary project> --enable \  
  --password <password> --email <e-mail> --description <...> \  
  user-name
```

```
$ openstack user list
```

```
$ openstack user show user-name
```

```
$ openstack group create --domain <domain-name> group-name
```

```
$ openstack group add user group-name user-name
```

```
$ openstack group list
```

```
$ openstack group show group-name
```

```
$ openstack user list --group <group-name>
```

CLI Review

```
$ openstack role create --domain <domain-name> role-name
```

```
$ openstack role list
```

```
$ openstack role add --project <project-name> \  
  --user <user-name> | --group <group-name> \  
  role-name
```

```
$ openstack role assignment list --names
```

CLI Review

```
$ openstack service create --name <service-name> \  
--description "..." service-type
```

```
$ openstack service list --long
```

```
$ openstack endpoint create <service> \  
public | admin | internal \  
<service-url>
```

```
$ openstack endpoint list
```

```
$ openstack endpoint list --service <service-name>
```

```
$ openstack endpoint list --interface public|admin|internal
```

Preparing to **Certified OpenStack Administrator** Exam

Section 4 – Keystone Identity Management

*Lecture 16. OpenStack Identity Management Summary
and Review*

Thank you!