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# CLOUD APPLICATION DEVELOPMENT

## OPENSTACK LAB EXPERIMENT – 11

OBJECTIVE: Sharing Applications between Projects in OpenStack

**Introduction:**

The purpose of this lab was to demonstrate how to share applications between projects in OpenStack. Sharing applications between projects can be useful when multiple projects require access to the same application or service. In OpenStack, this can be achieved by creating a shared image, which can be used by multiple projects to launch instances.

**Methods:**

To share applications between projects in OpenStack, we followed the following steps:

Step 1: Create a new project in OpenStack

We created a new project in OpenStack by logging in to the dashboard and navigating to the "Identity" section. From there, we selected "Projects" and clicked the "Create Project" button. We filled out the required fields, including the project name, description, and enabled the option to create a new network.

Step 2: Upload an application image to the new project

Next, we uploaded an application image to the new project by navigating to the "Compute" section of the dashboard and selecting "Images". We clicked the "Create Image" button and filled out the required fields, including the image name, description, and location of the image file. We selected the option to store the image in the new project.

Step 3: Create a new image from the application image in the new project

We created a new image from the application image in the new project by navigating to the "Compute" section of the dashboard and selecting "Images". We clicked the "Create Image" button and filled out the required fields, including the image name, description, and selected the source image as the application image uploaded in step 2. We also enabled the option to store the new image in the new project.

Step 4: Share the new image with another project in OpenStack

We shared the new image with another project in OpenStack by navigating to the "Compute" section of the dashboard and selecting "Images". We selected the new image created in step 3 and clicked the "Actions" button. From there, we selected "Manage Image Access" and added the project ID of the project we wanted to share the image with.

Step 5: Launch an instance in the second project using the shared image

We launched an instance in the second project using the shared image by navigating to the "Compute" section of the dashboard and selecting "Instances". We clicked the "Launch Instance" button and filled out the required fields, including the instance name, flavor, and network. We selected the shared image created in step 3 as the source for the instance.

Step 6: Verify that the instance was running correctly

We verified that the instance was running correctly by logging in to the instance and testing the application.

**Results:**

We were able to successfully share an application between projects in OpenStack. We created a new project and uploaded an application image to the project. We then created a new image from the application image and shared the new image with another project in OpenStack. We launched an instance in the second project using the shared image and verified that the instance was running correctly.

**Conclusion:**

In conclusion, we demonstrated how to share applications between projects in OpenStack by creating a shared image that can be used by multiple projects to launch instances. This lab provided us with a better understanding of how to share resources between projects in OpenStack, which can be useful in a multi-tenant environment. By following these **steps, we** can ensure that multiple projects have access to the same applications and services, without the need to duplicate resources.