Solution Engineer Assisted Workshop Day
Lab 2: Creating Compute Instances on OCC

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Practice 2-1: Creating a Basic Compute Instance

Overview

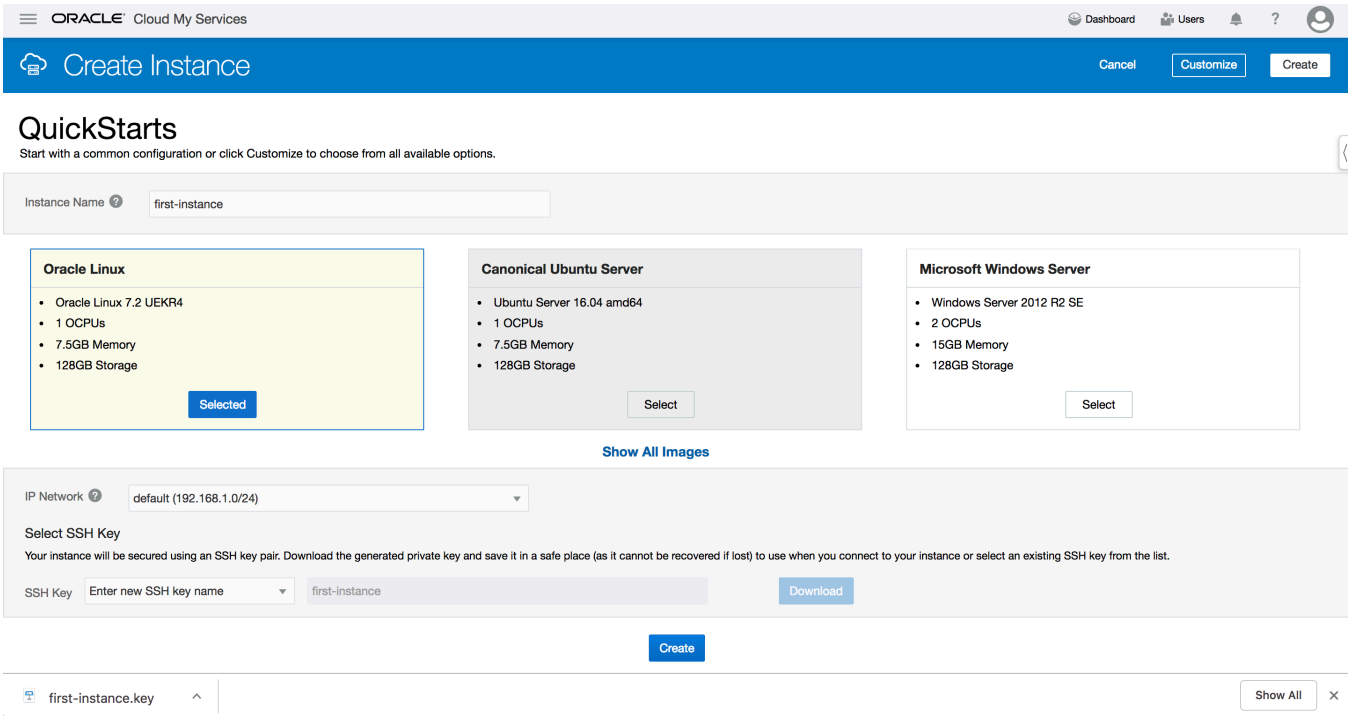
In this exercise, you will initialize a minimally configured compute instance on OCC.

Assumptions

Note: Some of the user interfaces may look different than the screenshots included in the instructions, however students should still use the written instructions to complete the hands-on labs.

Tasks

1. From your My Services console, open Compute Classic.
2. Click the “Create Instance” button.
3. In the QuickStarts dialog, give your instance a name and select a deployment OS (either Oracle Linux or Ubuntu).



4. Download the SSH key file that will be used to access the instance when it is running.
5. Click Create.
6. It might take a few minutes for the instance to provision. While it’s starting, let’s locate our ssh client.

   For Mac and Linux, just open your terminal.

   If you are on Windows, open Powershell or download and install PuTTY from the internet.

Practice 2-2: Connecting to Your Instance

Overview

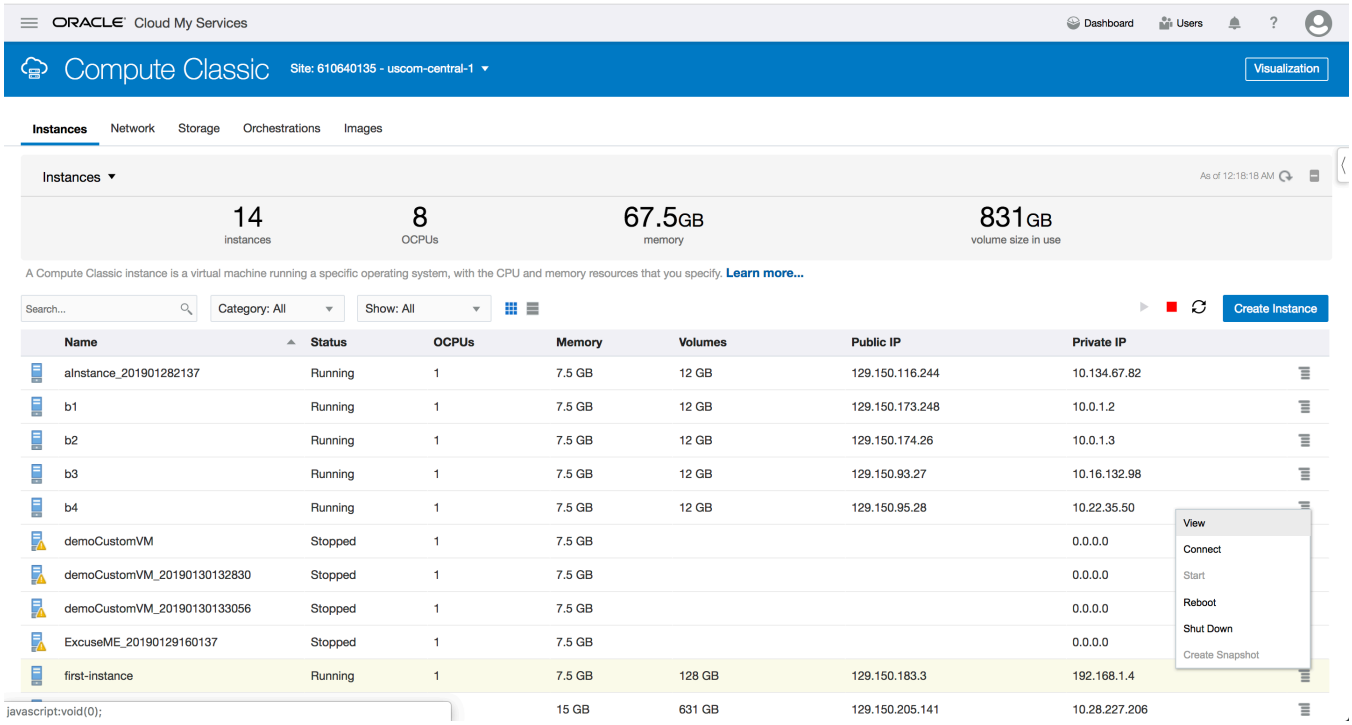
In this exercise, you will use the SSH protocol to securely connect to your running Compute instance.

Prerequisites

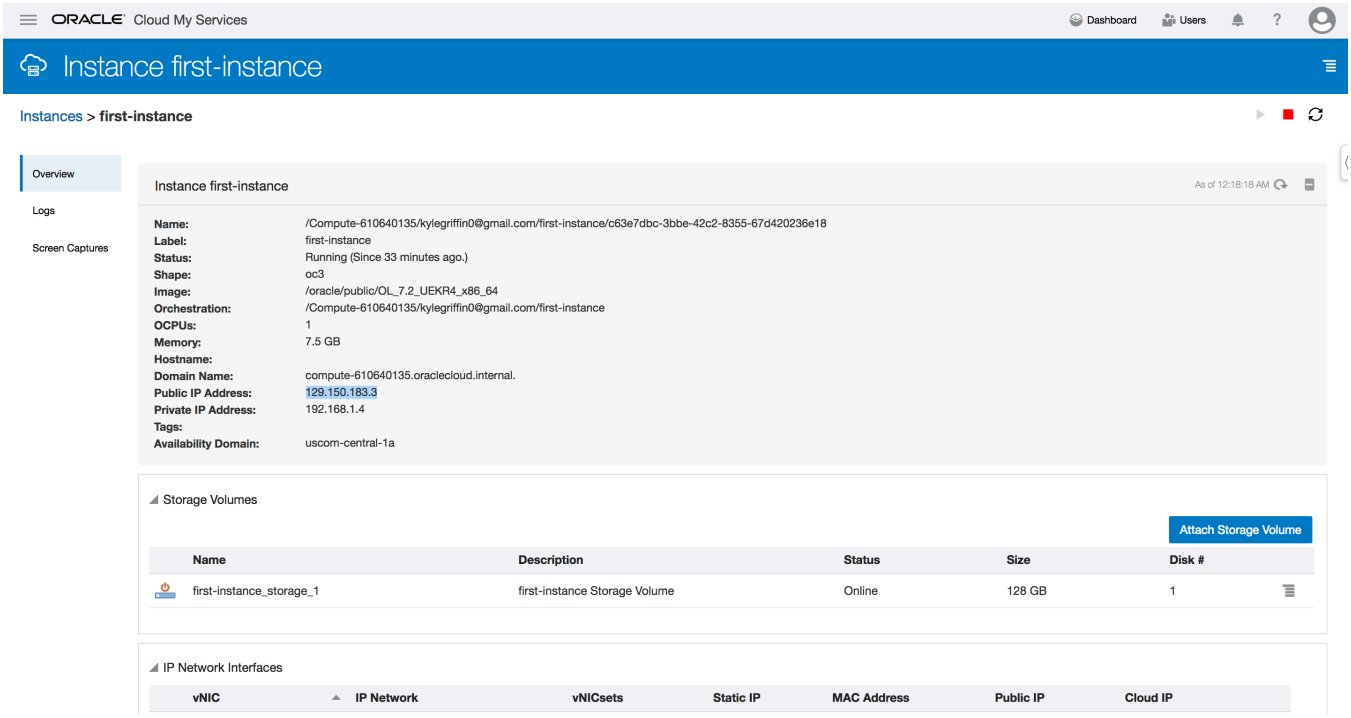
1. The path to your **private key** file (check your downloads folder)
2. A ssh client (Terminal, Powershell, PuTTY)

Tasks

1. In the **Instances** tab of your Compute Classic console, locate the name of the instance you just provisioned.
2. Open the menu on the right and select **View**.



3. Locate the public IP address and put it somewhere you can find it later.



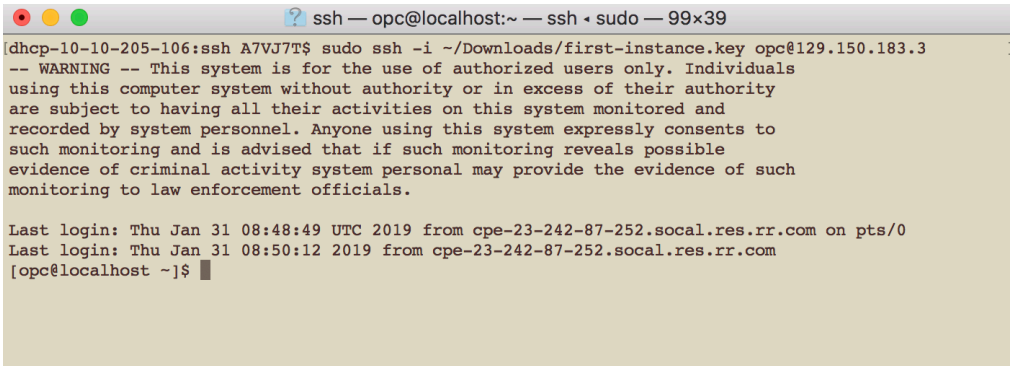
4. In your SSH client, we are going to create a new connection. We'll need the IP address to specify the machine we are connecting to. If we are in terminal, the command is as follows:

```
$ ssh –i </path/privateKey> opc@<PublicIP_Address>
```

Depending on the OS you chose, "opc" should be replaced with "ubuntu" to match the OS' default user.

In PuTTY, create a new connection using your private key and IP address. Your username should be either opc or ubuntu. No password is required.

5. If you SSH'd in successfully, you should see a prompt with the username you entered. From this point on, you can install and run software however you'd like.



Demonstration: Creating a Compute Instance from a Custom Image

Instructions

1. Download or locate the VM you wish to deploy.
2. Install and open VirtualBox.
3. Under the File Menu in VB, click Import Appliance.
4. Select the file containing your virtual image and press Import.

(In a practical deployment we would start the VM locally and configure the image to communicate with our network – details on how to do this can be found in the documentation below)

5. Open your terminal and cd into your VirtualBox Virtual Machines folder (usually located in your home directory)
6. In order to deploy on OCC, we must first convert the vdmk disk file located in our current directory into a RAW disk file using VirtualBox's CLI, and then zip it into a tar.gz file. Supporting documentation is located here:

   (https://www.oracle.com/webfolder/technetwork/tutorials/obe/cloud/compute-iaas/creating_a_custom_ol_machine_image/creating_a_custom_ol_machine_image.html#section11)

To convert to RAW, copy and paste in your terminal:

```
VBoxManage internalcommands converttoraw /path/to/myVM.vdmk /path/to/rawdisk.img
```

Then zip the newly created image using for deployment on OCC by entering:

```
tar -czSf customVM.tar.gz rawdisk.img
```

7. In your Compute console, locate the "Images" subtab.
8. Click on "Upload Images".
9. You should be prompted to log in again as a security measure. Enter the password for a user authorized to use Object Storage Classic.
10. In Object Storage, click browse and locate your newly created customVM.tar.gz file, and then click upload.
11. Once the image is finished uploading, select Associate Image, create a name for your image and select the file you just uploaded.
12. Now, in the Create Instance dialog, under the Private Images tab, you should be able to select the VM you successfully associated.