

# Enterprise Manager Workshop

## Lab Setup Guide



## Introduction

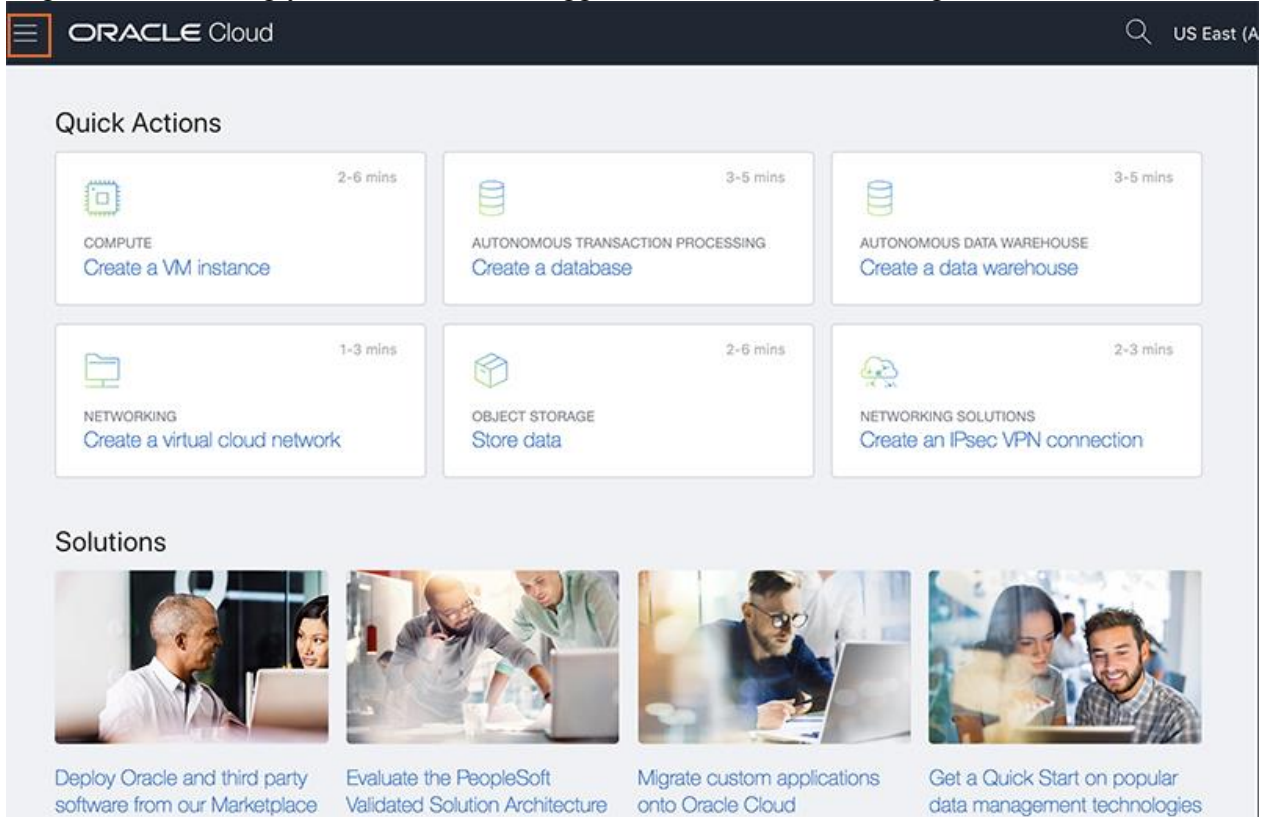
This lab will show you how to login to the cloud and setup a compute instance using the custom vm images that has Enterprise Manager as well as Database targets to go through the lab exercise.

## Lab Assumptions

- Each participant has been provided an account on the c4u03 tenancy and the network (VCN) has been pre-created (including ingress rules).
- Each participant has a public/private key to login to instances post creation ([instructions](#))

## Create Compute Instance

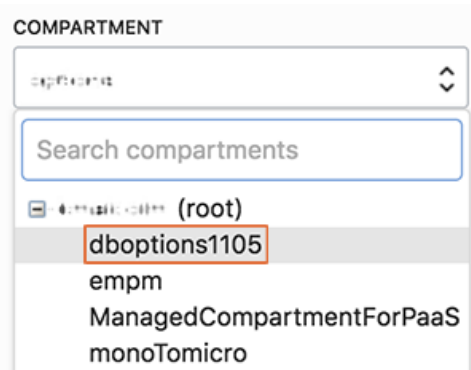
1. Login to c4u03 using your account, once logged-in Click on the hamburger menu.



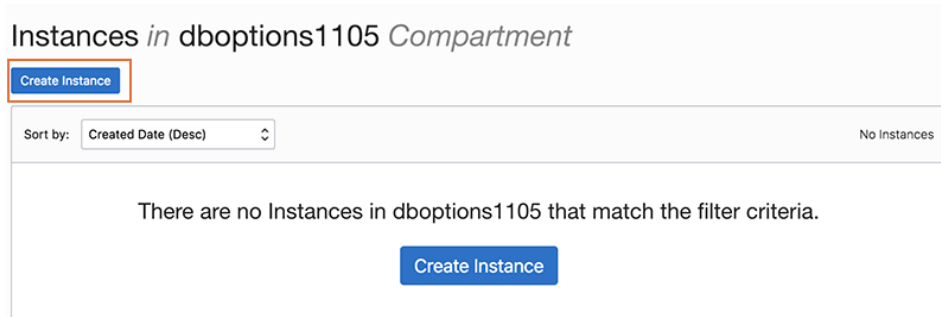
2. Select **Compute** -> **Instances** to go to the screen to create your instance.



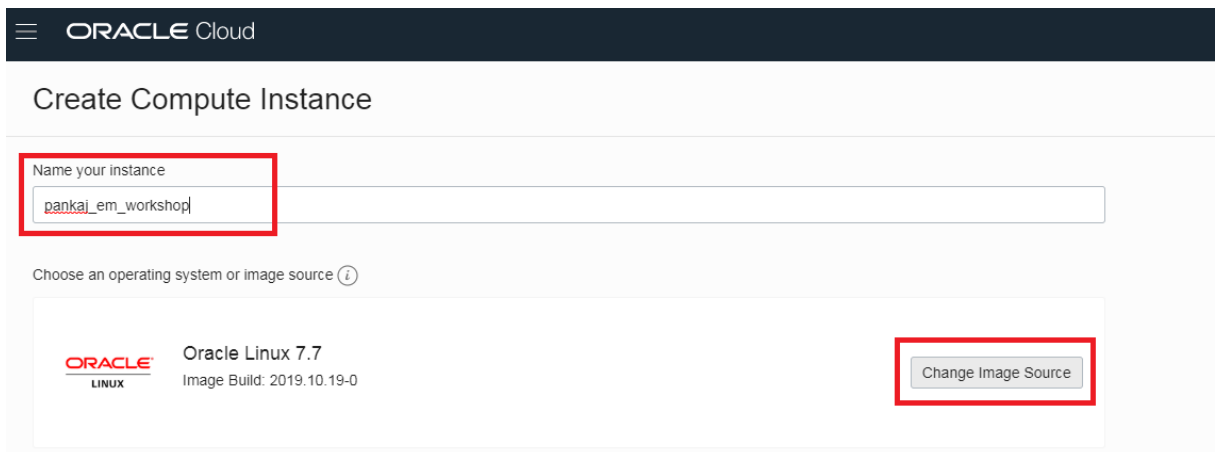
- Before creating the instance, it is important you **select the correct compartment**, which is **dboptions1105**. Go to the bottom left side of the page and expand the root drop down to select the **dboptions1105**. **Do NOT select the root compartment or any other compartment.**



- Click the **Create Instance** button.



- Enter your desired instance name which should be unique. Suggested name: Use your guid\_\_EMworkshop (pchandir\_em\_workshop). *Do NOT enter name as-is from below example, as that is for example purposes only.* Click on the **Change Image Source** button.



6. This is the OCI Marketplace library of images. In the **Browse All Images** screen, from the options along the top of the screen, click on **Custom Images** to select your Oracle Enterprise Workshop Image

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Create Browse All Images

Platform Images Oracle Images Partner Images **Custom Images** Boot Volumes Image OCID

Custom images created or imported into your Oracle Cloud Infrastructure environment. See [Managing Custom Images](#) for more information.

Custom image compartment

dboptions1105

c4u03 (root)/dboptions1105

**Custom Image Name**

☒ EM Workshop V1

☐ DBLM\_beta

0 Selected

Select Image Cancel

From the list of available custom images, Select the **EM Workshop V1** image and click on **Select Image** button.

7. Click **Show Shape, Network, and Storage Options** if it is hidden.

- **AD:** Instances will need to be balanced across Availability Domains (ADs) to accommodate limits in the tenancy. If your last name is A-J, select AD1, J-M, select AD2, N-Z, select AD3.
- **Instance Type:** The instance type we are creating is a **Virtual Machine**.
- **Instance Shape:** Select the **change shape** button and select **VM.Standard2.4** (4 OCPU and 60 GB memory). Click the **Select Shape** button to apply the change.

**Note :** If there is capacity issue with VM.Standard2.4 , you can use VM.Standard2.2

Availability Domain

AD 1  
XKwM:US-ASHBURN-AD-1

AD 2  
XKwM:US-ASHBURN-AD-2 ✓

AD 3  
XKwM:US-ASHBURN-AD-3

Instance Type

Virtual Machine  
A virtual machine is an independent computing environment that runs on top of physical bare metal hardware. ✓

Bare Metal Machine  
A bare metal compute instance gives you dedicated physical server access for highest performance and strong isolation.

Instance Shape

VM.Standard2.2 (Virtual Machine)  
2 Core OCPU, 30 GB Memory

Change Shape

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Create Browse All Shapes

A shape is a template that determines the number of CPUs, amount of memory, and other resources allocated to a newly created instance. See [Compute Shapes](#) for more information.

| Shape Name   | OCPU | Memory (GB) | Local Disk (TB)    | Network Bandwidth | Max. Total VNICS |
|--|------|-------------|--------------------|-------------------|------------------|
| <input type="checkbox"/> VM.Standard2.1            | 1    | 15          | Block Storage only | 1 Gbps            | 2                |
| <input type="checkbox"/> VM.Standard2.2            | 2    | 30          | Block Storage only | 2 Gbps            | 2                |
| <input checked="" type="checkbox"/> VM.Standard2.4 | 4    | 60          | Block Storage only | 4.1 Gbps          | 4                |
| <input type="checkbox"/> VM.Standard2.8            | 8    | 120         | Block Storage only | 8.2 Gbps          | 8                |
| <input type="checkbox"/> VM.Standard2.16           | 16   | 240         | Block Storage only | 16.4 Gbps         | 16               |
| <input type="checkbox"/> VM.Standard2.24           | 24   | 320         | Block Storage only | 24.6 Gbps         | 24               |

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## Create Compute Instance

Availability Domain

AD 1  
XKwM:US-ASHBURN-AD-1 ✓

AD 2  
XKwM:US-ASHBURN-AD-2

AD 3  
XKwM:US-ASHBURN-AD-3

Instance Type

Virtual Machine  
A virtual machine is an independent computing environment that runs on top of physical bare metal hardware. ✓

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Instance Shape

VM.Standard2.4 (Virtual Machine)  
4 Core OCPU, 60 GB Memory

Change Shape

Configure networking

Virtual cloud network compartment

dboptions1105  
c4u03 (root)/dboptions1105

Create Cancel

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- In the Configure networking section, select the dboptions compartment and the VCN you created in an earlier section or the default (dboption1105). Click on the radio button to **Assign a public address**. This is important. **DO NOT OVERLOOK THIS STEP!!!!!!**

Configure networking

Virtual cloud network compartment

dboptions1105  
c4u03 (root)/dboptions1105

Virtual cloud network

dboptions1105

Subnet compartment

dboptions1105  
c4u03 (root)/dboptions1105

Subnet ⓘ

Public Subnet XKwM:US-ASHBURN-AD-1

☐ Use network security groups to control traffic ⓘ

☐ Do not assign a public IP address
 ☒ Assign a public IP address

9. Use the default boot volume settings that comes along with image (changing the settings might cause issues)

Boot volume

Default boot volume size: 175.0 GB

☐ Custom boot volume size (in GB)

☐ Use in-transit encryption ⓘ

☐ Choose a key from Key Management to encrypt this volume

10. Paste or Choose your SSH key pub file contents

Add SSH key ⓘ

☐ Choose SSH key file ☒ Paste SSH keys

SSH key

iCZPpRWJo42Yhx5JdU/A39eRR8EqDGZocIZR269xTCZ0k4NUFqraSCEqzyx9Lsmh5m2K0r/C+hkHf2a5/SuWUJFqoicz0J4:68LM3M0mbNMd51Vmq/i kmaicoim@Kays-MacBook-Pro.local

+




11. Click the **Create** button to create your instance. Your instance will be in the provisioning state for about 4 minutes but it will take about 15 mins to start Databases as well as Enterprise Manager on your VM. Verify that you chose the correct image. In a few minutes, you can also verify that you have a public IP address. View the Work Requests at the bottom, this will show where your instance is.

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Compute » Instances » Instance Details » Work Requests



PROVISIONING...

## pankaj\_em\_workshop

Start Stop Reboot Move Resource Apply Tag(s) Actions

Instance Information

Tags

### Instance Information

|                        |                      |              |   |
|------------------------|----------------------|--------------|---|
| Availability Domain:   | XKwM-US-ASHBURN-AD-1 | Image:       | <a href="#">EM Workshop V1</a>                      |
| Fault Domain:          | FAULT-DOMAIN-1       | OCID:        | ...enellq <a href="#">Show</a> <a href="#">Copy</a> |
| Region:                | iad                  | Launched:    | Fri, 01 Nov 2019 15:58:38 UTC                       |
| Shape:                 | VM.Standard2.4       | Compartment: | c4u03 (root)/doptions1105                           |
| Virtual Cloud Network: |                      | Launch Mode: | NATIVE  |
| Maintenance Reboot:    | -                    |              |   |

### Primary VNIC Information

|                          |                           |                |             |
|--------------------------|---------------------------|----------------|-------------|
| Private IP Address:      | -                         | Internal FQDN: | Unavailable |
| Public IP Address:       | Unavailable               | Subnet:        |             |
| Network Security Groups: | None <a href="#">Edit</a> |                |             |

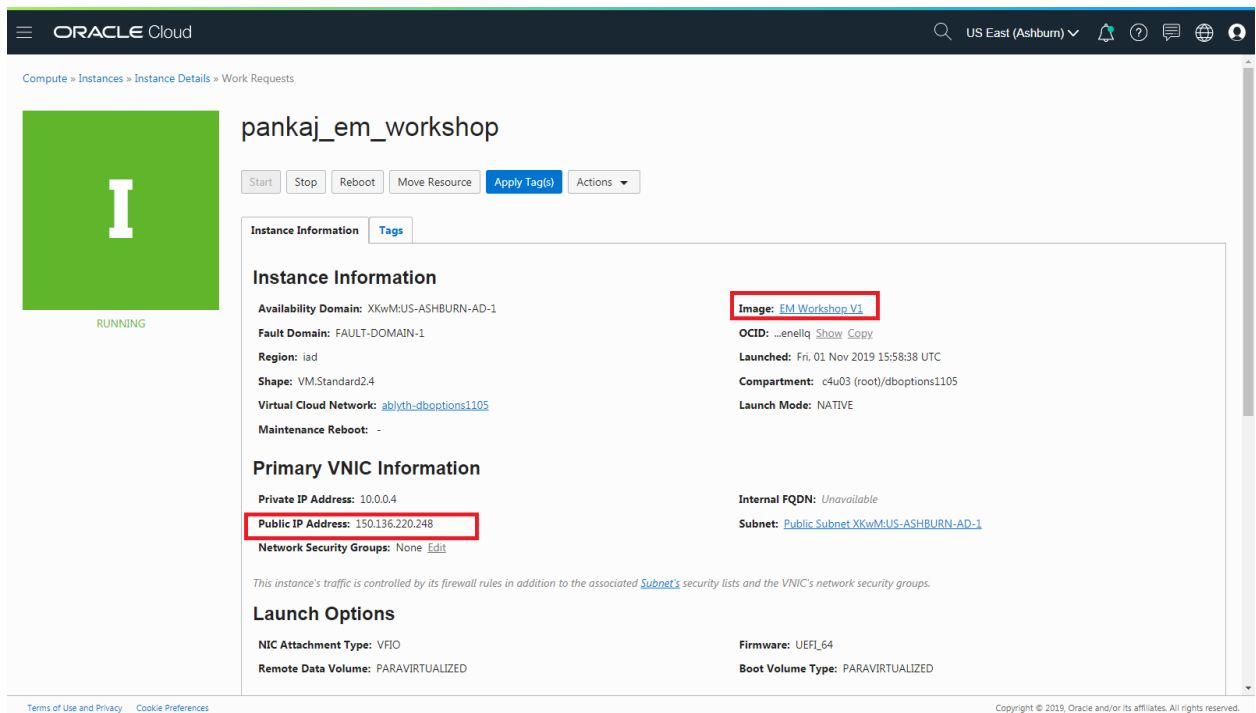
This instance's traffic is controlled by its firewall rules in addition to the associated [Subnet's](#) security lists and the VNIC's network security groups.

### Launch Options

|                      |                 |                   |                 |
|----------------------|-----------------|-------------------|-----------------|
| NIC Attachment Type: | VFIO            | Firmware:         | UEFI_64         |
| Remote Data Volume:  | PARAVIRTUALIZED | Boot Volume Type: | PARAVIRTUALIZED |

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12. Once the instance moves to the `Running` state, locate your **public IP address** and jot it down.



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Compute » Instances » Instance Details » Work Requests

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Start Stop Reboot Move Resource Apply Tag(s) Actions

Instance Information Tags

**Instance Information**

Availability Domain: XKwM:US-ASHBURN-AD-1  
Fault Domain: FAULT-DOMAIN-1  
Region: iad  
Shape: VM.Standard2.4  
Virtual Cloud Network: ablyth-dboptions1105  
Maintenance Reboot: -

**Primary VNIC Information**

Private IP Address: 10.0.0.4  
Public IP Address: 150.136.220.248  
Network Security Groups: None Edit

**Launch Options**

NIC Attachment Type: VFIO  
Remote Data Volume: PARAVIRTUALIZED

Image: EM Workshop V1  
OCID: ocid1.instance.oc4u03.us-east-1.20191101155838  
Launched: Fri, 01 Nov 2019 15:58:38 UTC  
Compartment: c4u03 (root)/doptions1105  
Launch Mode: NATIVE  
Internal FQDN: Unavailable  
Subnet: Public Subnet XKwM3US-ASHBURN-AD-1

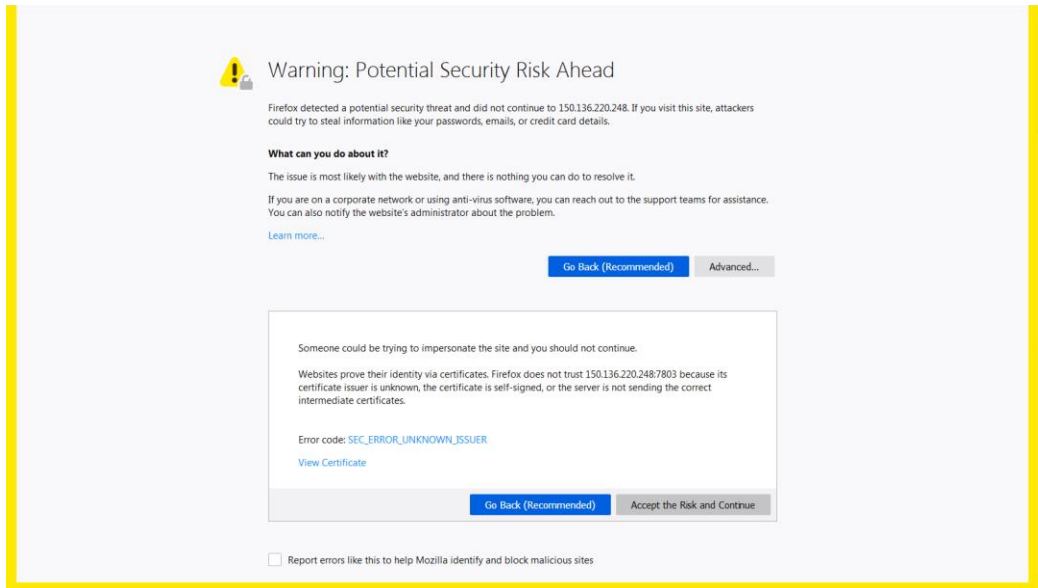
This instance's traffic is controlled by its firewall rules in addition to the associated Subnet's security lists and the VNIC's network security groups.

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Now that you have your instance, it will need 15 mins to start all the components after which you can access the EM via URL: **https://<public Ip address>:7803/em**.

You will see a certification warning like below, you can ignore that and move ahead (click on Advanced and then click on “Accept the risk and continue”)



Note: if you try to connect to EM and receive “Cannot Connect” screen, give EM more time to start up.

Once it's up, you should see the login screen

