



ORACLE

## Peoplesoft On Oracle Cloud

**Test Drive Using PeopleSoft Cloud Manager**

0

# PeopleSoft Cloud Manager Hands-on Lab

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## 1. Overview

In this hands on lab, you will be able to bring up and configure a Cloud Manager instance in your tenancy, and provision a new PeopleSoft environment.

The lab can be divided into two sessions. In the first session, you will be able to –

1. Review the pre-requisites and set up your workstation/laptop (Section: Requirements)
2. Review VM shapes available in your account/tenancy (Appendix A)
3. Download and run the automation package to configure your tenancy, and deploy Cloud Manager (Section: Prepare OCI tenancy and set up Cloud Manager). The automation will –
  - a. Create a user
  - b. Create a group
  - c. Create a compartment
  - d. Create a OCI policy,
  - e. Create network resources – VCN and subnets
  - f. Subscribe to the Cloud Manager Marketplace image
  - g. Create Cloud Manager instance
  - h. Bootstrap install Cloud Manager application
4. Configure Cloud Manager Settings (Section: Configure Cloud Manager)
5. Create a File System for Download Repository
6. Subscribe to PeopleSoft Download Channels (Section: Subscribe to download channels)

Review Appendix C for details on the resources created by deployment automation. This session should take about 90 minutes approximately. The last step, when you subscribe to download channels, time taken for downloads to complete depends on network speed and the number of subscribed download channels. If only one application channel and one PeopleTools channel with only the latest patch is subscribed, then downloads should complete in about 60 to 90 minutes depending on the download speed.

In session two, which should take you approximately 60 to 75 minutes, you will be able to create a Topology, an Environment Template and provision a new PeopleSoft environment.

## 2. Requirements

Time: 10 mins

1. User already has a tenancy with Administrator user access.
2. My Oracle Support credentials
3. Minimum resources in Home region of the tenancy
  - a. 4 x VM shapes (VM.Standard2.2 or VM.Standard2.1, VM.StandardE2.2 or VM.StandardE2.1)
  - b. 1 TB block storage
4. User brings their own Windows workstation/laptop to access OCI console, PSFT Cloud Manager and provisioned instances.
5. User has access to a Windows workstation/laptop with the following installed:
  - a. Git Bash for Windows - <https://git-scm.com/download/win>
  - b. A web browser to connect to OCI web console and Cloud Manager PIA – Firefox or Chrome recommended.
  - c. [User must have admin privileges on windows laptop to update the ETC/Hosts file to be able to add URL/IP address for PSFT Cloud Manager](#)

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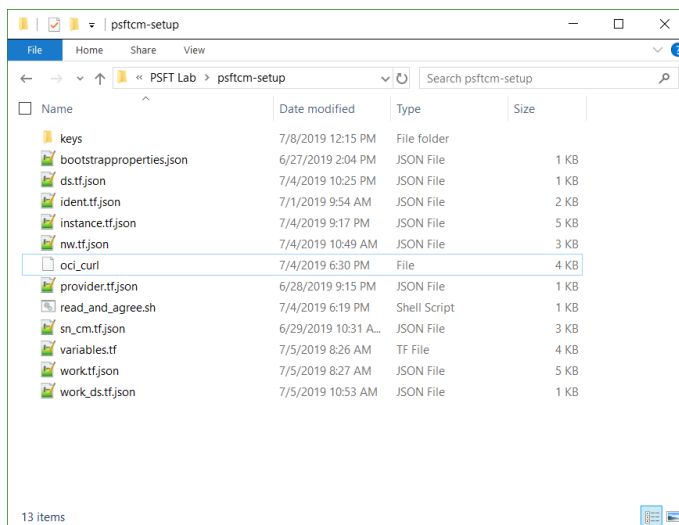
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### 3. Prepare OCI tenancy and set up Cloud Manager

Follow the steps outlined below to configure your tenancy.

Time: 80 mins

1. Ensure Git Bash is installed on your laptop/workstation.
2. Download automation scripts bundle 'psftcm-setup-3.0.zip' - [DOWNLOAD](#)
3. Extract psftcm-setup-3.0.zip to a new folder on the laptop/workstation. Let's call it 'psftcm-setup-3.0'. Below are the contents in the zip file.



4. Launch Git Bash [for Windows](#) command line and navigate to the newly extracted folder – 'psftcm-setup-3.0'.
5. Change directory to "keys" folder, under the extracted folder

Field Code Changed

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```
MINGW64:/c:/Users/nagenkri.ORADEV/Downloads/PSFT Lab/psftcm-setup/keys
nagenkri@NAGENKRI-IN MINGW64 ~
$ cd Downloads/PSFT\ Lab/psftcm-setup
nagenkri@NAGENKRI-IN MINGW64 ~/Downloads/PSFT Lab/psftcm-setup
$ cd keys
nagenkri@NAGENKRI-IN MINGW64 ~/Downloads/PSFT Lab/psftcm-setup/keys
$ bash make_keys.sh
```

6. Run the script “bash make\_keys.sh”

```
MINGW64:/c:/Users/nagenkri.ORADEV/Downloads/PSFT Lab/psftcm-setup/keys
Your identification has been saved in ./id_rsa.
Your public key has been saved in ./id_rsa.pub.
The key fingerprint is:
SHA256:/h8pYp99rDV8uZj+eMe90BYRkmSknMqo+BqjhAfZuyY nagenkri@NAGENKRI-IN
The key's randomart image is:
+---[RSA 3072]-----+
|      .+      |
|      =      |
|      + .o.   |
| o   o . .+.. |
|o . .oS  o o. |
|.....|
|.o. . . +oo+. |
|E.=. . + + =+. |
|.+o. . +.=+.o. |
+---[SHA256]-----+
Generating RSA private key, 2048 bit long modulus (2 primes)
.....+++++
e is 65537 (0x010001)
writing RSA key
nagenkri@NAGENKRI-IN MINGW64 ~/Downloads/PSFT Lab/psftcm-setup/keys
$
```

7. Below set of key files are generated. There are two sets of keys –

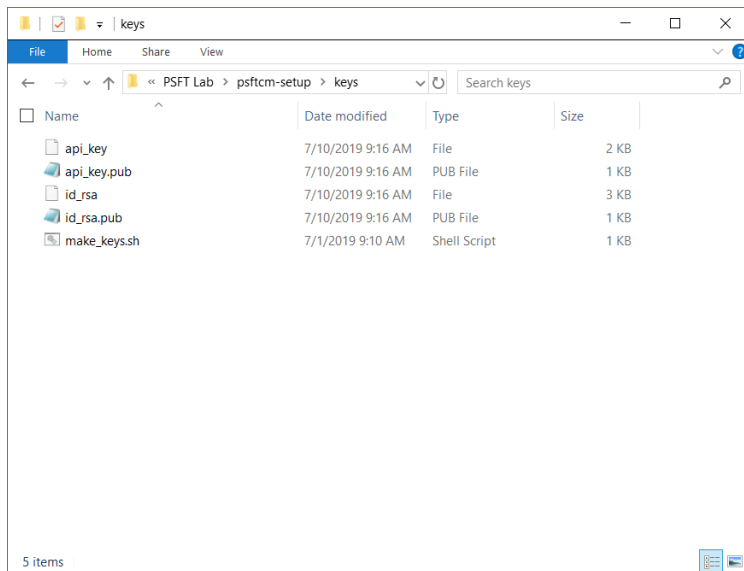
I. API Signing keys – **api\_key** and **api\_key.pub**

II. SSH key pair – **id\_rsa** and **id\_rsa.pub**

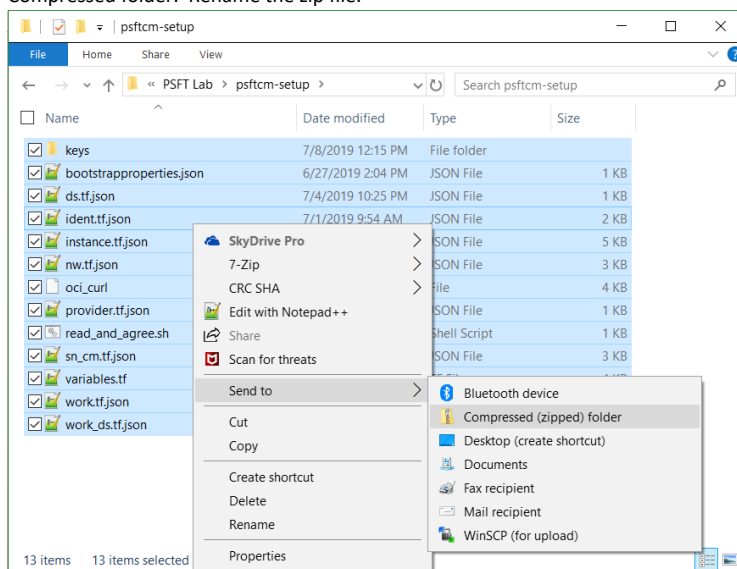
These Keys are necessary for you to be able to securely connect into your PeopleSoft Cloud Tenancy

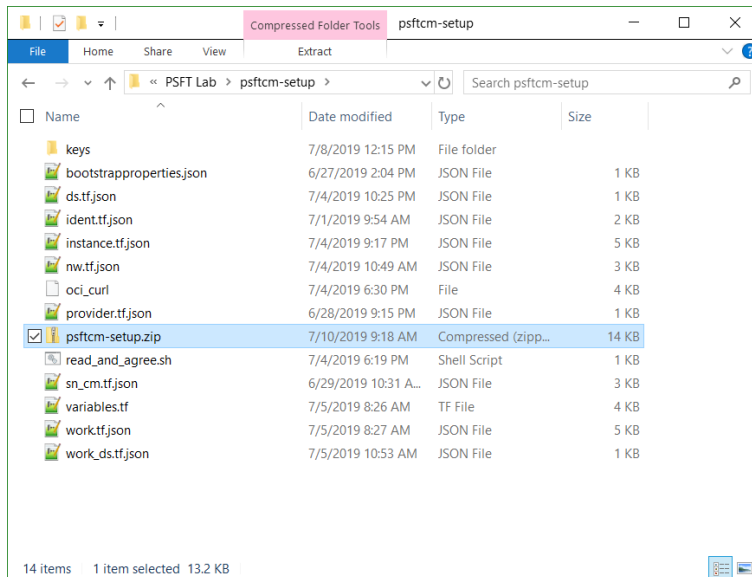
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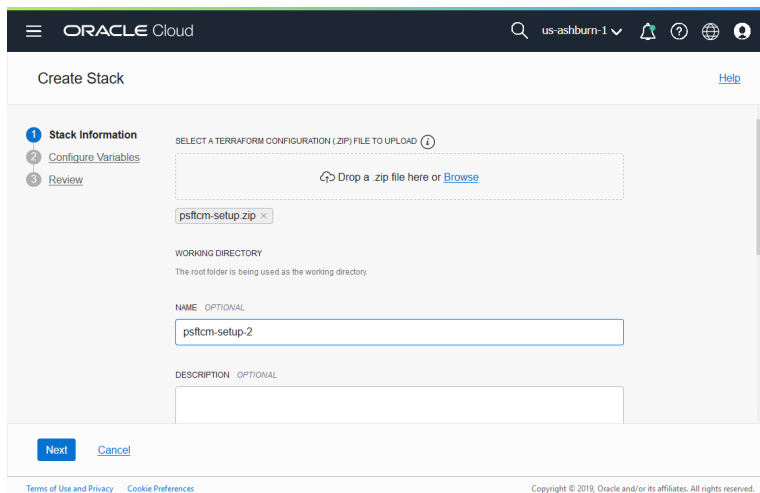


8. Zip the contents in the extracted folder into a new zip file. Let's call it 'psftcm-setup.zip'. Note – The zip file should be created as shown below. Select all files → right-click → Send to → Compressed folder. Rename the zip file.





9. In a browser, launch the OCI console and navigate to Resource Manager → Stacks. Refer [Appendix A](#) for details on how to get OCI console URL.
10. Add a new stack by uploading the newly created psftcm-setup.zip file.





11. Click Next. You have to select an Availability Domain. For the other variables, the default values should work in most cases. Configure variables only if required. If your tenancy has a different set of shapes, or they are allocated across different ADs, only then update the values. Otherwise, the defaults should work.

ORACLE Cloud US West (I)

Edit Stack

Stack Information  
2 Configure Variables  
3 Review

Configure the variables for the infrastructure resources that this stack will create when you run the apply job for this execution plan.

**Cloud Manager Instance Details**

AVAILABILITY DOMAIN  
evQs:PHX-AD-1  
Availability Domain for the Cloud Manager instance.

SHAPE  
VM.Standard.E2.1  
Compute shape to use for the Cloud Manager instance.

API PRIVATE KEY PASSPHRASE OPTIONAL  
Your API private key passphrase. It can contain letters, numbers and the characters ~@#%&\*\_-=+{}[];:~?/

Back Next Cancel

Below table summarizes the inputs in Configure Variables page. [\(Please Note: If these values are not prefilled than you have not zipped up your psft\\_cm.zip file correctly as described in Step 8. Please make sure you create the zip file within the directory you are zipping up.\)](#)

Attribute	Value
AVAILABILITY DOMAIN	Availability Domain for CM instance and for provisioning PSFT environment
PRIVATE_KEY_PASSWD	-
SHAPE	VM.Standard2.2 (Modify in case your tenancy does not have this shape)
DB CONNECT PASSWORD	peop1e
ACCESS PASSWORD	SYSAD123
DB ADMIN PASSWORD	Passw0rd#
CLOUD MANAGER ADMINISTRATOR PASSWORD	Passw0rd
INTEGRATION GATEWAY USER PASSWORD	Passw0rd

WEBLOGIC ADMINISTRATOR USER PASSWORD	Passw0rd
WEB PROFILE USER PASSWORD	PTWEBSERVER
DOMAIN CONNECT PASSWORD	Passw0rd123

12. Click Next and review your inputs.

The screenshot shows the 'Create Stack' page in the Oracle Cloud console. The 'Review' step is active, indicated by a blue circle with a '3'. The page displays the following information:

- Stack Information:**
  - Name: psftcm-setup-2
  - Description:
  - Compartment: ...ckp5mq [Show](#) [Copy](#)
- Variables:**
  - region: us-ashburn-1
  - tenancy\_ocid: ...ckp5mq [Show](#) [Copy](#)

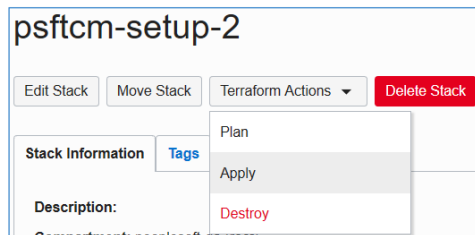
At the bottom, there are buttons for 'Back', 'Create', and 'Cancel'. The footer includes 'Terms of Use and Privacy', 'Cookie Preferences', and 'Copyright © 2019, Oracle and/or its affiliates. All rights reserved.'

13. Click Create. This will add a new stack and open the stack details page.

14. On the stack details page, under "Terraform Actions", click Plan.

The screenshot shows the 'psftcm-setup-2' stack details page. At the top, there are buttons for 'Edit Stack', 'Move Stack', 'Terraform Actions' (with a dropdown arrow), and 'Delete Stack'. The 'Terraform Actions' dropdown menu is open, showing options: 'Plan', 'Apply', and 'Destroy'. Below the buttons, there is a 'Stack Information' tab and a 'Tags' tab. The 'Description' field is visible, and the 'Compartment' is listed as 'psftcm-setup-2'.

15. After the Plan completes successfully, run Terraform Apply.



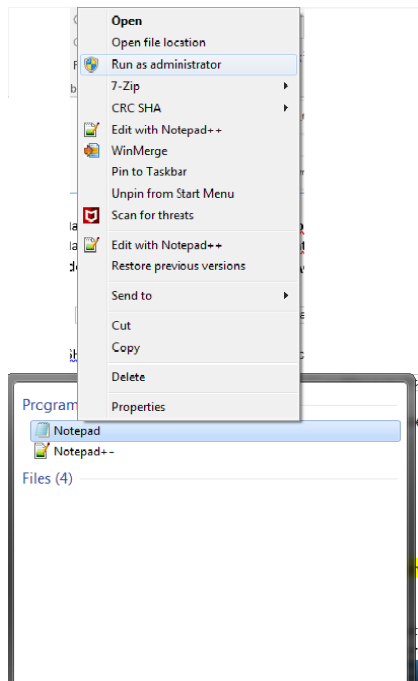
16. Terraform Apply job is a long running process. After it completes, the output from this job will have the IP address and PIA URL of CM instance. To obtain those details, click on the Job name.

Resources		Jobs				
Jobs		Name	Type	State	Start Time	End Time
Variables		<a href="#">apply-job-20190705121221</a>	Apply	Succeeded	7/5/2019, 12:12:23 PM	7/5/2019, 12:20:54 PM
Work Requests						

17. On the job details page, click on Output link under Resources.

Resources		Outputs	
Logs		Key	Value
Variables		CM_http_url	http://labcm.cm.labnet.oraclevcn.com:8000
Associated Resources		CM_https_url	https://labcm.cm.labnet.oraclevcn.com:8443
Outputs		CM_private_ip	10.0.6.2
View State		CM_public_ip	129.146.173.56
		Windows_2016_Platform_Image_for_CM	...ron5on7a <a href="#">Show</a> <a href="#">Copy</a>

18. Make a note of the **Windows\_2016\_Platform\_Image\_for\_CM** value. This OCID will be required in the next section.
19. Make a note of **CM\_public\_ip** and **CM\_http\_url**.
20. Add an entry to **C:\Windows\System32\drivers\etc\hosts** entry on your laptop/workstation as shown below. Use the hostname value for attribute **CM\_http\_url**.
- Open Windows Search "Notepad". Right Click on Notepad and open as Administrator.



- II. Go to File → Open → **C:\Windows\System32\drivers\etc\hosts**, and append below entry

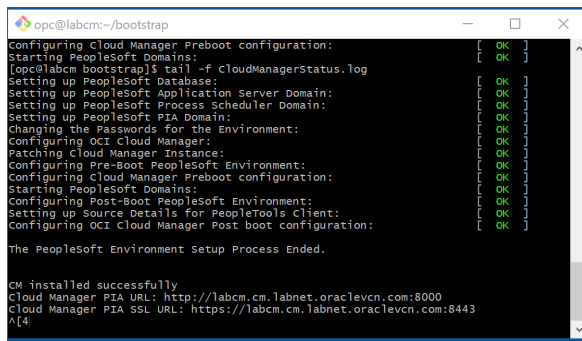
129.213.145.213 labcm.cm.labnet.oraclevcn.com
---

21. SSH into Cloud Manager instance to check status of deployment. Monitor Cloud Manager bootstrap installation using below command.

Please Note that the Plan Deployment take up to an hour.

Refer Appendix B for details on how to SSH into Cloud Manager instance.

\$ tail -f /home/opc/bootstrap/CloudManagerStatus.log



```
opc@labcm:~/bootstrap
Configuring Cloud Manager Preboot configuration: [ OK ]
Starting PeopleSoft Domains: [ OK ]
[opc@labcm bootstrap]$ tail -f CloudManagerStatus.log
Setting up PeopleSoft Database: [ OK ]
Setting up PeopleSoft Application Server Domain: [ OK ]
Setting up PeopleSoft Process Scheduler Domain: [ OK ]
Setting up PeopleSoft PIA Domain: [ OK ]
Changing the passwords for the Environment: [ OK ]
Configuring OCI Cloud Manager: [ OK ]
Patching Cloud Manager Instance: [ OK ]
Configuring Pre-Boot PeopleSoft Environment: [ OK ]
Configuring Cloud Manager Preboot configuration: [ OK ]
Starting PeopleSoft Domains: [ OK ]
Configuring Post-Boot PeopleSoft Environment: [ OK ]
Setting up Source Details for PeopleTools Client: [ OK ]
Configuring OCI Cloud Manager Post boot configuration: [ OK ]

The PeopleSoft Environment Setup Process Ended.

CM installed successfully
Cloud Manager PIA URL: http://labcm.cm.labnet.oraclevcn.com:8000
Cloud Manager PIA SSL URL: https://labcm.cm.labnet.oraclevcn.com:8443
^[[4]
```

**Deleted:** \$ tailf  
/home/opc/bootstrap/CloudManagerStatus.log  
... [1]

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22. While Cloud Manager is being installed, review Associated Resources for the list of all resources created by automation. Refer [Appendix D](#) for more details.

23. After Cloud Manager bootstrap is complete, the CloudManagerStatus.log will show the following messages.

```
The PeopleSoft Environment Setup Process Ended.

CM installed successfully
Cloud Manager PIA URL: http://labcm.cm.labnet.oraclevcn.com:8000
Cloud Manager PIA SSL URL: https://labcm.cm.labnet.oraclevcn.com:8443
```

**Deleted:** Refer Appendix A for details on how to SSH into Cloud Manager instance.

24. Launch a browser to access your Cloud Manager PIA URL (CM\_http\_url) –

<http://labcm.cm.labnet.oraclevcn.com:8000>

To login, use the username CLADM and password that was provided for input parameter OPR\_PWD.

#### 4. Configure Cloud Manager

Time: 20 mins

##### Configure Cloud Manager Settings:

1. Navigate to Cloud Manager Dashboard | Cloud Manager Settings | Cloud Manager Settings
2. Update My Oracle Support (MOS) Credentials. This is required to download DPKs and PRPs automatically.

The screenshot shows the 'Cloud Manager Settings' interface. On the left is a sidebar with navigation links: 'Cloud Manager Settings' (highlighted), 'Infrastructure Settings', 'File Server', 'Manage PUM Connections', 'Manage Updates', and 'Logs'. The main content area is titled 'Cloud Manager Settings' and contains a 'Save Settings' button in the top right. The primary section is 'My Oracle Support(MOS) Credentials', which includes explanatory text about downloading patches from MOS and a note about SSO account requirements. Below this text are input fields for 'User ID' (containing 'nagendra.krishnappe@oracle.com'), 'Password' (masked with dots), and 'Uri' (containing 'https://updates.oracle.com'). Below the MOS section are expandable sections for 'PeopleSoft Credentials' (with sub-sections 'REST Services' and 'User Credentials'), 'Lift & Shift Container' (with a 'Container Name' field containing 'psft\_las'), 'Cobol License', and 'Server Express'.

3. Navigate to Infrastructure Settings and update Operating System Images. For Linux, enable “Marketplace Image” radio button and choose the latest version from the displayed list.

For Windows image, use the value of “Windows\_2016\_Platform\_Image\_for\_CM” displayed earlier in the Outputs section of the stack.

Cloud Manager Infrastructure Settings

User Name: psfadmin\_Lab

User OCID: ocd1.user.oc1..aaaaaaa7qrotczz2ooukv2mm7372qtsv5t3

API Signing Public Key: /home/psadm2/psft/data/cloud/ocihome/keys/oci\_api\_key\_publ

Fingerprint: 6a:ec:aff1:50:f7:e3:d7:86:78:73:de:d3:f0:2a:d2

API Signing Private Key: /home/psadm2/psft/data/cloud/ocihome/keys/oci\_api\_key.pem

API Signing Prv Key Passphrase: .....

API Version and Region

API Version: 20160918

Home Region: us-phoenix-1

Deployment Region: us-phoenix-1

Operating System Images

Linux Image

Marketplace Image: YES

Image Version: OCI\_X86\_64\_PSFBASE\_OL\_6.10\_01

Image OCID: ocd1.image.oc1..aaaaaaa6zck2znchipgxmj5y5psztzbxjqynqbe

Image Name

Windows Image

Image OCID: aaaaaaaate3vcpa7kkogul7zbvxfjsgwzptmbx7n7qqrzk62skronE

Image Name

- Click 'Save' to save the configuration.
- Click 'Refresh OCI Metadata' button on top of the page and wait for few minutes
- Next, navigate to File Server tab. Accept the defaults. For Mount Target, type "lab"

Cloud Manager File Server

Use existing file system: NO

File System Name: labcm.cm.labnet.oraclevcn.com

Export: /labcm.cm.labnet.oraclevcn.com-export

Use existing Mount Target: No

Mount Target: lab

Fss Status: Not Configured

Create

More Info

- Click Create. This action will create a file server in a few minutes.
- Wait until the file server status shows 'FSS Configured', and then the system is ready for downloads.

Fss Status: FSS Configured

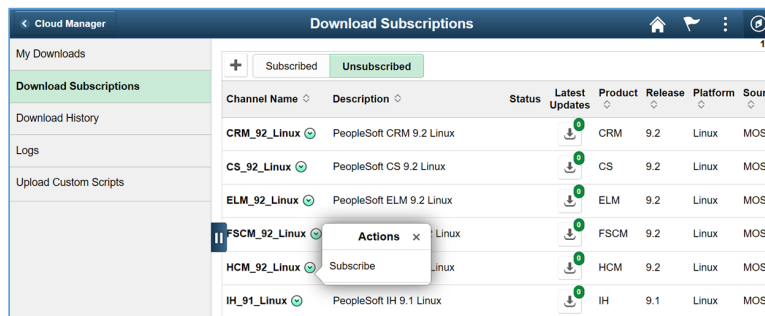




## 5. Subscribe to download channels

Time: Depends upon download speed and number of subscribed channels. Around 60 mins for this example.

1. Navigate to Cloud Manager Dashboard → Repository → Download Subscriptions
2. Go to the Unsubscribed tab
3. On a download channel of your choice, click on related actions menu and click Subscribe. E.g, HCM\_92\_Linux. Monitor the Logs page to check for progress.



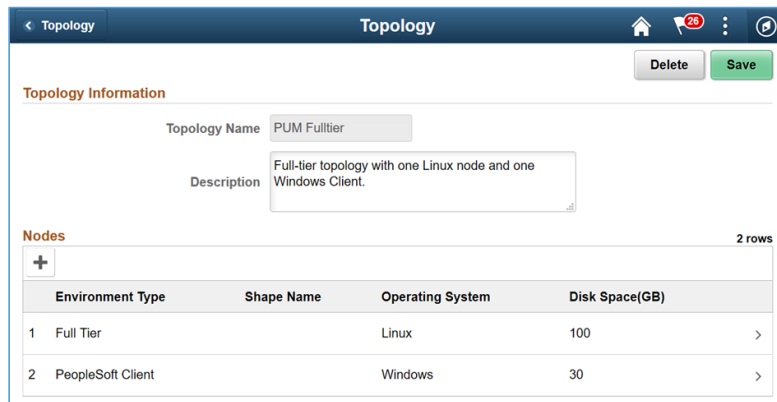
The screenshot shows the 'Download Subscriptions' page in the Cloud Manager interface. The left sidebar contains navigation links: 'My Downloads', 'Download Subscriptions' (highlighted), 'Download History', 'Logs', and 'Upload Custom Scripts'. The main content area has tabs for 'Subscribed' and 'Unsubscribed', with 'Unsubscribed' being the active tab. A table lists several download channels. An 'Actions' menu is open for the 'HCM\_92\_Linux' channel, showing a 'Subscribe' option.

Channel Name	Description	Status	Latest Updates	Product	Release	Platform	Source
CRM_92_Linux	PeopleSoft CRM 9.2 Linux		1	CRM	9.2	Linux	MOS
CS_92_Linux	PeopleSoft CS 9.2 Linux		1	CS	9.2	Linux	MOS
ELM_92_Linux	PeopleSoft ELM 9.2 Linux		1	ELM	9.2	Linux	MOS
FSCM_92_Linux	PeopleSoft FSCM 9.2 Linux		1	FSCM	9.2	Linux	MOS
HCM_92_Linux	PeopleSoft HCM 9.2 Linux		1	HCM	9.2	Linux	MOS
IH_91_Linux	PeopleSoft IH 9.1 Linux		1	IH	9.1	Linux	MOS

## 6. Review and update a Topology

Time: 10 mins

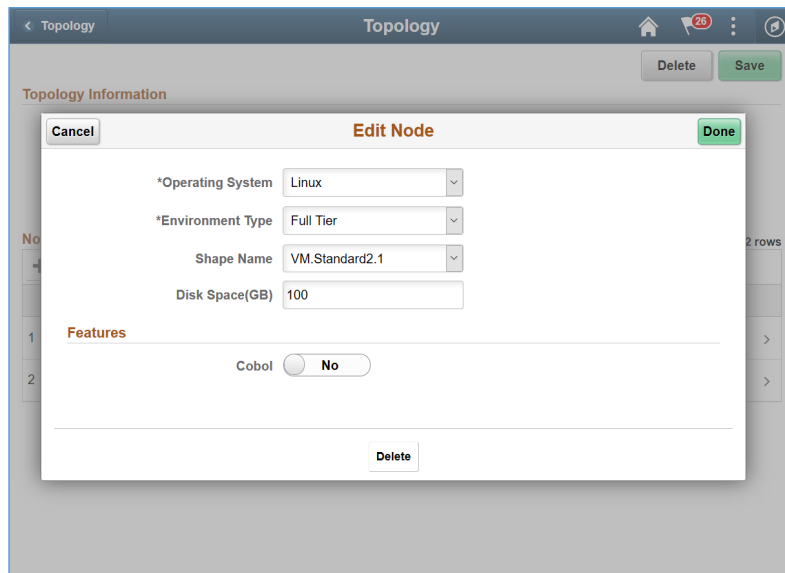
1. Navigate to Dashboard | Topology | PUM Fulltier topology. This topology will be used to create a new environment.



The screenshot shows the 'Topology' configuration page. At the top, there's a header with a back arrow, the title 'Topology', and icons for home, notifications (20), and user profile. Below the header, there are 'Delete' and 'Save' buttons. The 'Topology Information' section contains a 'Topology Name' field with the value 'PUM Fulltier' and a 'Description' field with the text 'Full-tier topology with one Linux node and one Windows Client.' Below this is a 'Nodes' section with a '+ ' icon and a table with 2 rows. The table has columns: 'Environment Type', 'Shape Name', 'Operating System', and 'Disk Space(GB)'. The first row is '1 Full Tier Linux 100' and the second row is '2 PeopleSoft Client Windows 30'. Each row has a right arrow icon.

	Environment Type	Shape Name	Operating System	Disk Space(GB)
1	Full Tier		Linux	100
2	PeopleSoft Client		Windows	30

2. Review the nodes and update the Shapes. Click Full Tier node and select a shape that is available in your AD 2. In this case, select VM.Standard2.1 or VM.Standard2.2. Review the available shapes in your AD as explained in [Appendix A](#).



The screenshot shows the 'Edit Node' dialog box. It has a 'Cancel' button on the left and a 'Done' button on the right. The dialog contains several fields: '\*Operating System' with a dropdown menu showing 'Linux', '\*Environment Type' with a dropdown menu showing 'Full Tier', 'Shape Name' with a dropdown menu showing 'VM.Standard2.1', and 'Disk Space(GB)' with a text input field showing '100'. Below these fields is a 'Features' section with a 'Cobol' toggle switch set to 'No'. At the bottom of the dialog is a 'Delete' button.

3. Delete the Windows node from the topology. Click 'Delete' on the page shown below and save the topology.

The screenshot shows the 'Edit Node' dialog box in the Topology application. The dialog has a title bar with 'Cancel', 'Edit Node', and 'Done' buttons. Inside, there are three dropdown menus: '\*Operating System' set to 'Windows', '\*Environment Type' set to 'PeopleSoft Client', and 'Shape Name' set to 'VM.Standard2.1'. At the bottom of the dialog, there is a 'Delete' button. The background shows the 'Topology Information' section of the application.

4. When you are ready, Click Save. The topology should now look as shown below.

The screenshot shows the 'Topology' application interface. The 'Topology Information' section has a 'Topology Name' field with the value 'PUM Fulltier' and a 'Description' field with the value 'Full-tier topology with one Linux node and one Windows Client.' Below this is the 'Nodes' section, which contains a table with the following data:

	Environment Type	Shape Name	Operating System	Disk Space(GB)	
1	Full Tier	VM.Standard2.1	Linux	100	>

## 7. Create a new Environment Template

Time: 10 mins

1. Navigate to Dashboard | Environment Template. Click Add New Template button. Provide below details and click Next.

Name	MYPUM
Description	Test a PUM image
Database	Click on Search icon and select a downloaded DPK. For example. PEOPLESOFT HCM UPDATE IMAGE 9.2.030 - NATIVE OS

The screenshot shows a web application window titled "Environment Template". At the top, there is a navigation bar with "Exit", a progress indicator showing 25% completion, and a "Next >" button. Below the navigation bar, there are four steps: "1 General Details", "2 Select Topology", "3 Define Security", and "4 Summary". The "General Details" step is active. It contains three sections: "General Settings" with fields for "Name" (MYPUM) and "Description" (Test a PUM image); "Select Database" with a "Database" field containing "PEOPLESOFT HCM UF" and a search icon; and a collapsed "Details" section showing "Name HCM", "Platform Linux", "Release 9.2", and "Version 30".

2. On Select Topology page, click on search icon to search for a topology and select the PUM Fulltier topology.

Environment Template

1 General Details 2 Select Topology 3 Define Security 4 Summary

Select Topology 1 row

Default Topology	Topology Name
<input checked="" type="checkbox"/>	PUM Fulltier

Custom Attributes

- Expand the Custom Attributes and select the PUM Fulltier topology and click Edit Custom Attributes.

Environment Template

1 General Details 2 Select Topology 3 Define Security 4 Summary

Select Topology 1 row

Default Topology	Topology Name
<input checked="" type="checkbox"/>	PUM Fulltier

Custom Attributes

Topology PUM Fulltier

Edit Custom Attributes Validate Network

Region and Availability Domains

Full Tier

- Expand the Region and Availability Domains section. Select the Region and Availability Domain in which Cloud Manager instance is not deployed. Refer Appendix A to review tenancy service limits

and find the AD which has the required shape available for provisioning. In this exercise, for trial accounts, AD 2 should have the required shapes. Also refer to Appendix C for network topology.

#### Regional and Availability Domains

1	Region	us-ashburn-1
2	Primary Availability Domain	evQs:US-ASHBURN-AD-2 (Select an AD 2, where shapes are available for use)
3	Compartment	PSFT_Lab
4	Virtual Cloud Network	Labnet

- Expand each of the sub-sections under Full Tier and PeopleSoft Client and provide inputs. The defaults for many parameters can be changed optionally.

#### Full Tier | General Settings

1	PeopleSoft Deployment Path	/u01/app/oracle/product
2	Database Access Id	SYSADM
3	Database Connect Id	people
4	Enable EM agent	No
5	Weblogic Administrator Username	system
6	Database Name	MYPUM
7	Gateway Administrator Username	administrator
8	Database Operator Id	PS
9	Database Server Port	1522
10	Database Type	SYS

11	Enable Multi Language	NO
12	Pre Provision Custom Script	-
13	Post Provision Custom Script	-

#### Full Tier | Subnet Settings

1	Subnet For Primary Instance	Select a subnet. E.g. envs
---	-----------------------------	----------------------------

Note – Since there is only one subnet, the ‘envs’ subnet is automatically chosen when AD2, PSFT\_Lab compartment and labnet VCN is chosen in the earlier section.

#### Full Tier | Domain Settings | Web Server Settings

1	Number of Domains	1
2	Authentication Domain	default
3	HTTP PIA Port	8000
4	HTTPS PIA Port	8443

#### Full Tier | Domain Settings | Appserver Settings

1	Number of Domains	1
2	Number of App Server Instance (PSAPPSRV services) Per Domain	2
3	Number of Query Server Instances(PSQRYSRV services) Per Domain	1
4	Number of SQL Access App Server(PSSAMSRV services) Per Domain	1
5	Number of Jolt Listener(Jolt Handler) Per Domain	3
6	Jolt Port	9033
7	WSL Port	7000
8	Enable IB settings on first domain	YES
9	Number of App Server instance(PSAPPSRV services) for IB	2
10	Number of SQL Access App Server(PSSAMSRV services) for IB	1
11	Number of PSBRKHND instances for IB	1
12	Number of PSSUBHND instances for IB	1
13	Number of PSPUBHND instances for IB	1

#### Full Tier | Domain Settings | Process Scheduler Settings

1	Number of Domains	1
2	Number of App Engine Server Instances(PSAESRV services) Per Domain	2
3	Number of App Engine Server Instances(PSDSTSRV services) Per Domain	2

#### Full Tier | Domain Settings | Process Scheduler Server Definition Parameters

1	Application Engine	1
2	XML Publisher	1
3	COBOL SQL	1
4	Optimization Engine	1
5	SQR Process	1
6	SQR Report	1

7	Max Api Aware	1
---	---------------	---

Full Tier | Domain Settings | Advanced

None

6. Click Next to configure zone and role. Select options as shown below.

Environment Template

26

< Previous

Next >

1

2

3

4

General Details

Select Topology

Define Security

Summary

Assign Template to Zone(s)

1 row

Zone Name

1

Test

Q

+

-

Assign Template to Role(s)

1 row

Role Name

1

PACL\_CAD

Q

+

-

7. Click Next. Review the page and click Submit to save the template.

Environment Template

26

< Previous

Submit

1

2

3

4

General Details

Select Topology

Define Security

Summary

▼ General Details

Template Name

MYPUM

Description

Test a PUM image

Database

PEOPLESOFT HCM UPDATE IMAGE 9.2.030 - NATIVE OS

▼ Topology

Selected topology

PUM Fulltier

▼ Security

Selected Zone

Test

Selected Role

PACL\_CAD

Auto-generate Passwords

No



8. Create Environment

Time: 50 mins

- 1. Navigate to Dashboard | Environments. Click Create Environment button.
- 2. Provide a unique environment name. Select the Template that was created in previous section – MYPUM. Expand all sections under Environment Attributes and provide all inputs. Use the table given below for quick and default values. Click Done to begin the environment provisioning process.

Monitor the deployment logs under Dashboard | Environments | <Environment> | Action Menu | Details | Logs

Cancel

Create Environment

Done

Environment Name

mypum

Description

Test new PUM

Template Name

MYPUM

Zone

Test

Topology

Environment Attributes

Full Tier

Full Tier | Credentials

	Name	Value
1	Database Connect Id	people
2	Database Connect Password	Password1234
3	Weblogic Administrator Username	system
4	Weblogic Administrator Password	Password1234
5	Database Administrator Password	Password1234
6	Gateway Administrator Username	administrator
7	Gateway Administrator Password	Password1234
8	Database Operator Id	PS
9	Database Operator Password	PS
10	Web Profile Password for user PTWEBSERVER	Password1234
11	Database Access Id	SYSADM
12	Database Access Password	Password1234

**Full Tier | General Settings**

1	PeopleSoft Deployment Path	/u01/app/oracle/product
2	Database Access Id	SYSADM
3	Database Connect Id	people
4	Enable EM agent	No
5	Weblogic Administrator Username	system
6	Database Name	MYPUM
7	Gateway Administrator Username	administrator
8	Database Operator Id	PS
9	Database Server Port	1522
10	Database Type	SYS
11	Enable Multi Language	NO
12	Pre Provision Custom Script	-
13	Post Provision Custom Script	-

**Full Tier | Domain Settings | Web Server Settings**

1	Number of Domains	1
2	Authentication Domain	default
3	HTTP PIA Port	8000
4	HTTPS PIA Port	8443

**Full Tier | Domain Settings | Appserver Settings**

1	Number of Domains	1
2	Number of App Server Instance (PSAPPSRV services) Per Domain	2
3	Number of Query Server Instances(PSQRYSRV services) Per Domain	1
4	Number of SQL Access App Server(PSSAMSRV services) Per Domain	1
5	Number of Jolt Listener(Jolt Handler) Per Domain	3
6	Jolt Port	9033
7	WSL Port	7000
8	Enable IB settings on first domain	YES
9	Number of App Server instance(PSAPPSRV services) for IB	2
10	Number of SQL Access App Server(PSSAMSRV services) for IB	1
11	Number of PSBRKHND instances for IB	1
12	Number of PSSUBHND instances for IB	1
13	Number of PSPUBHND instances for IB	1

**Full Tier | Domain Settings | Process Scheduler Settings**

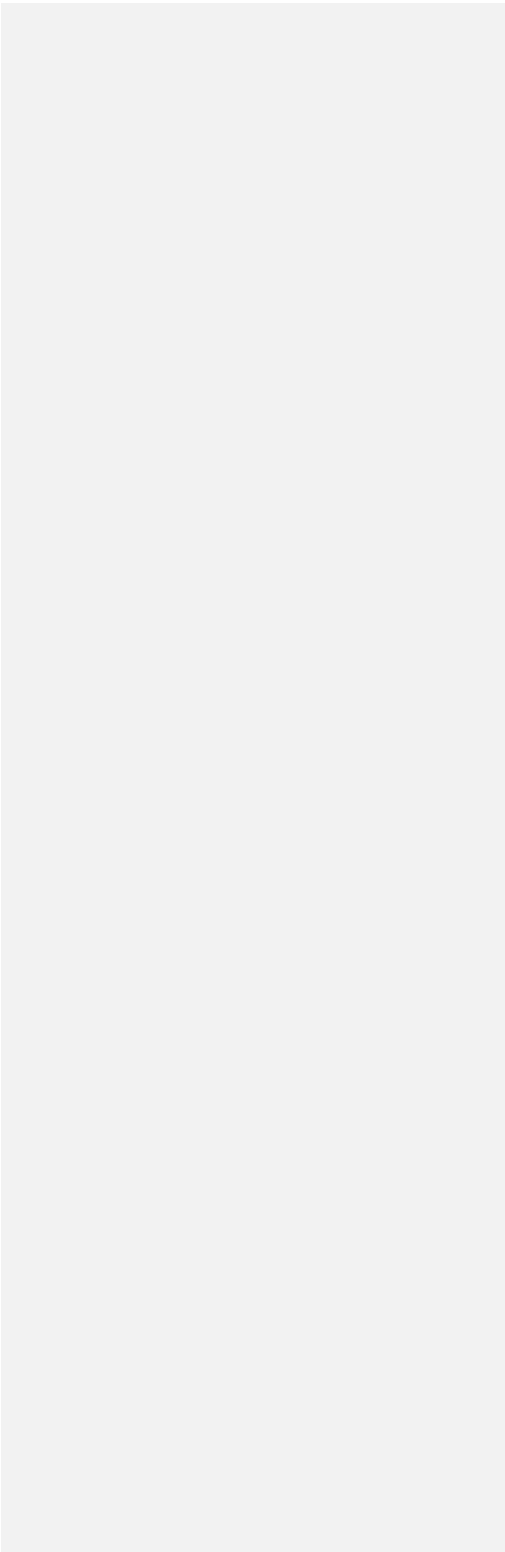
1	Number of Domains	1
2	Number of App Engine Server Instances(PSAESRV services) Per Domain	2
3	Number of App Engine Server Instances(PSDSTSRV services) Per Domain	2

Full Tier | Domain Settings | Process Scheduler Server Definition Parameters

1	Application Engine	1
2	XML Publisher	1
3	COBOL SQL	1
4	Optimization Engine	1
5	SQR Process	1
6	SQR Report	1
7	Max Api Aware	1

Full Tier | Domain Settings | Advanced

None



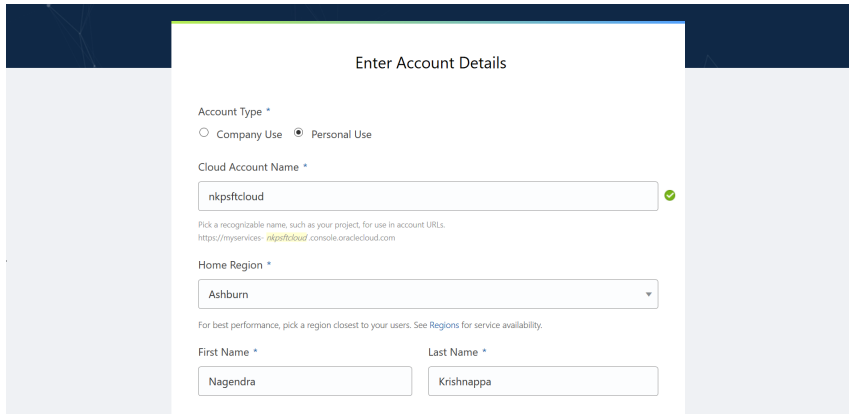
## 9. Additional Exercise – Provision Environments with Windows Clients

As a take home exercise, you can provision a PeopleSoft environment with a Windows client node. Follow the high level steps outlined below.

1. Remove the PUM topology from the Environment Template that was used to provision in the previous section – Refer step 2 in [Create a New Environment Template](#)
2. Edit the PUM topology and add a new Windows Client node. Select an available shape. Refer step 1 in [Review and Update a Topology](#). Hint - Click + to add a node.
3. Edit the Environment Template and re-add the PUM topology – Refer step 2 in [Create a New Environment Template](#). Hint - Search for PUM topology.
4. Configure the Custom Attributes of the topology in the template. Ensure to select the Availability Domain which has the required shapes – Refer Step 3 in [Create a New Environment Template](#)
5. Create a new Environment using the newly modified template – Refer [Create Environment](#).

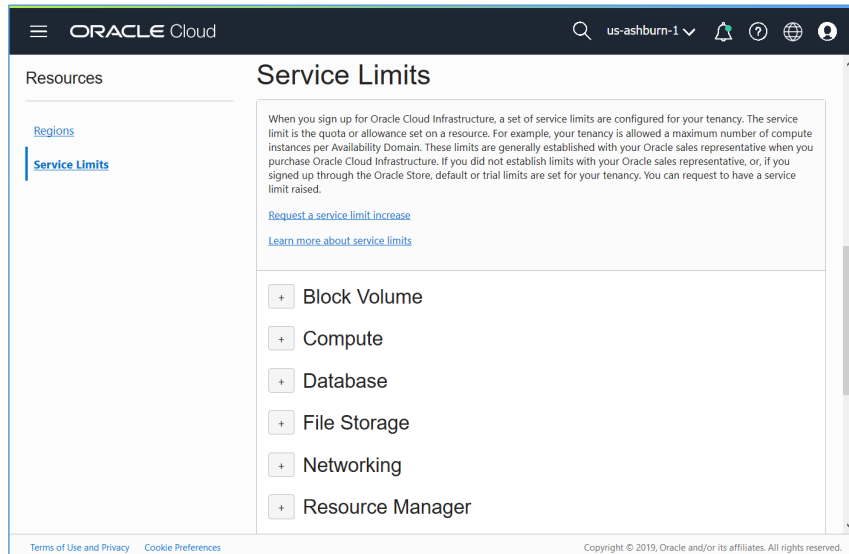
## Appendix A – OCI Account URL and Resources

The OCI Console URL will be as shown in the screenshot below. The standard format is – [https://myservices-<account\\_name>.console.oraclecloud.com](https://myservices-<account_name>.console.oraclecloud.com). In this example, the account name provided during account creation is 'nkpsftcloud'. The URL will be <https://myservices-nkpsftcloud.console.oraclecloud.com>.



The screenshot shows the 'Enter Account Details' form in the OCI console. The form has a dark blue header with the title 'Enter Account Details'. Below the header, there are several input fields and a dropdown menu. The 'Account Type' section has two radio buttons: 'Company Use' and 'Personal Use', with 'Personal Use' selected. The 'Cloud Account Name' field contains the text 'nkpsftcloud' and has a green checkmark icon to its right. Below this field, there is a small text block: 'Pick a recognizable name, such as your project, for use in account URLs. https://myservices-[nkpsftcloud](https://myservices-nkpsftcloud.console.oraclecloud.com).console.oraclecloud.com'. The 'Home Region' dropdown menu is set to 'Ashburn'. Below this, there is a note: 'For best performance, pick a region closest to your users. See [Regions](#) for service availability.' The 'First Name' field contains 'Nagendra' and the 'Last Name' field contains 'Krishnappa'.

Review the resources available in your tenancy. Navigate to Menu → Administration → Tenancy Details and review the service limits for Compute. Determine the number of VM shapes available in your tenancy.



The screenshot shows the 'Service Limits' page in the OCI console. The page has a dark blue header with the Oracle Cloud logo and a search bar. The main content area is divided into two sections: 'Resources' on the left and 'Service Limits' on the right. The 'Resources' section has a list of links: 'Regions' and 'Service Limits'. The 'Service Limits' section has a text block explaining service limits and two links: 'Request a service limit increase' and 'Learn more about service limits'. Below the text block, there is a list of service categories with plus icons: 'Block Volume', 'Compute', 'Database', 'File Storage', 'Networking', and 'Resource Manager'. The footer of the page contains links for 'Terms of Use and Privacy' and 'Cookie Preferences', and a copyright notice: 'Copyright © 2019, Oracle and/or its affiliates. All rights reserved.'

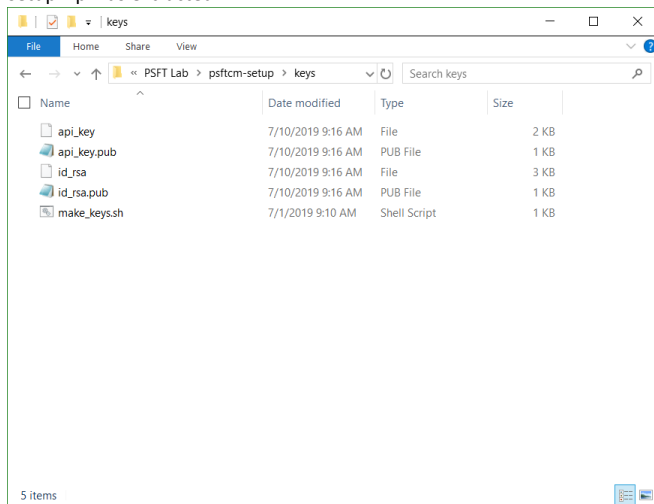
Your tenancy should have the following shapes.

Shape	AD-1	AD-2	AD-3
VM.Standard2.1	1	1	1
VM.Standard2.2	1	1	1
VM.Standard.E2.1	1	1	1
VM.Standard.E2.2	1	1	1

## Appendix B – Accessing Cloud Manager using SSH

Steps to SSH into Cloud Manager instance.

1. SSH key pair required to access Cloud Manager instance was created in step 6 in [section 6](#).
2. The SSH key pair will be under the folder named 'keys', in the same folder where the psftcm-setup.zip was extracted.



3. Launch Git Bash and navigate to the keys folder.
4. Retrieve the Cloud Manager IP address. It was provided as output when the stack was applied.

### Resources

[Logs](#)

[Variables](#)

[Associated Resources](#)

[Outputs](#)

[View State](#)

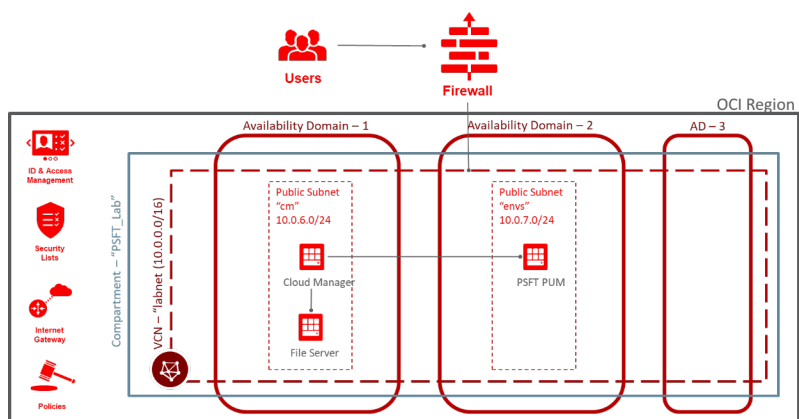
### Outputs

Key	Value
CM_http_url	http://labcm.cm.labnet.oraclevcn.com:8000
CM_https_url	https://labcm.cm.labnet.oraclevcn.com:8443
CM_private_ip	10.0.6.2
CM_public_ip	129.146.173.56
Windows_2016_Platform_Image_for_CM	...ron5on7a <a href="#">Show</a> <a href="#">Copy</a>

5. SSH into the Cloud Manager instance using below command.

```
$ ssh -i id_rsa opc@129.213.145.213
```

## Appendix C – Network layout





## Appendix D – Deployed OCI Resources

The deployment automation (Resource Manager Stack) provisions numerous resources in the tenancy. To find the list of resources that were created, navigate to OCI console → Resource Manager → Stacks → <Stack> → Apply Job details. On this page, click Associated Resources under Resources.

**RMJ** SUCCEEDED

**apply-job-20190705121221**

Download Terraform Configuration Download Terraform State Add Tags

**Job Information** Tags

OCID: ...7ax5dq Show Copy  
Job Type: Apply  
State: Succeeded  
Start Time: 7/5/2019, 12:12:23 PM  
Compartment: peoplesoft-qa (root)  
Plan Job ID: Automatically approved  
Working Directory: Not specified  
End Time: 7/5/2019, 12:20:54 PM

**Resources**

**Associated Resources**

Name	Type	Attributes	Time Created
data.template_file...	template_file	...bserver_admin_user_pwd:"Password"	-

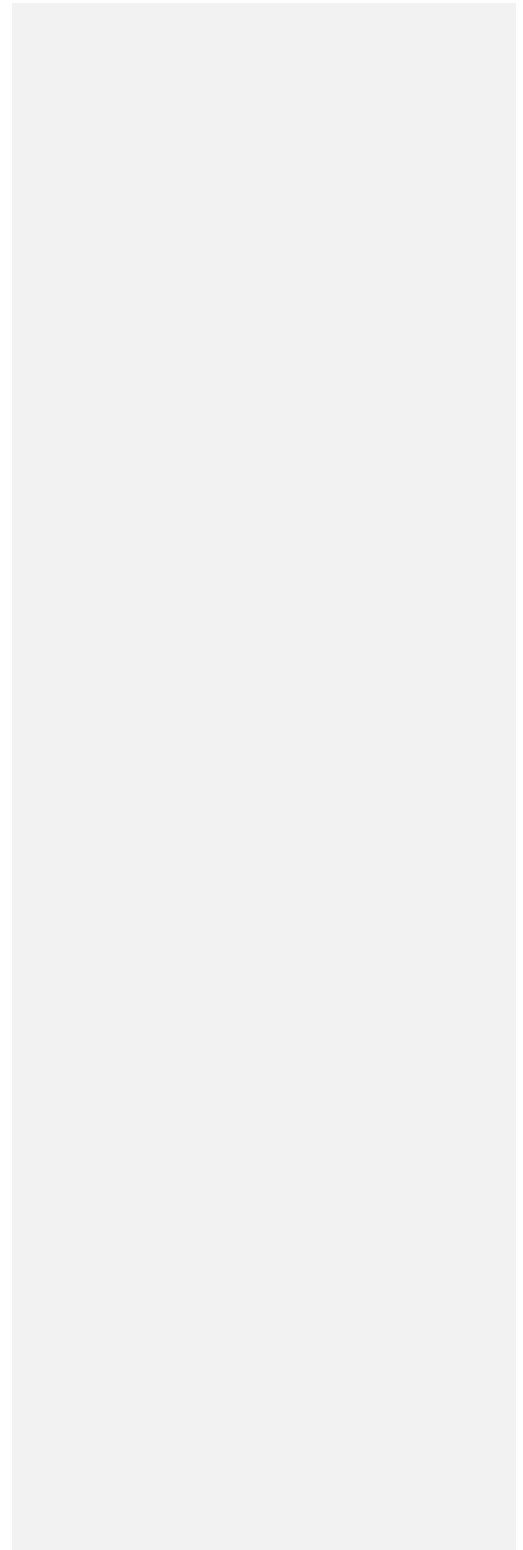
In this lab example, the Associated Resources show all the newly created resources.

Name	Type	Attributes	Time Created
data.oci_core_images.linux	oci_core_images	..., "operating_system_version": "6.10"} Show Copy	-
data.oci_core_images.windows	oci_core_images	...version": "Server 2012 R2 Standard"} Show Copy	-
cm	oci_core_subnet	...al_router_mac": "00:00:17:CB:77:95"} Show Copy	7/15/2019, 10:58:31 AM
data.oci_core_virtual_networks.t	oci_core_virtual_networks	...omain_name": "labnet.oraclevcn.com"} Show Copy	-
data.oci_identity_availability_domains.adlist	oci_identity_availability_domains	...7-15 05:28:30.663760208 +0000 UTC"} Show Copy	-
data.template_file.bs.json	template_file	...bserver_admin_user_pwd:"Password"	-
data.template_file.read_and_agree	template_file	...mlshxvg426ekskyuzefn2t5gobjdcctiq"} Show Copy	-
Default Route Table for labnet	oci_core_default_route_table	...2019-07-15 05:28:30.721 +0000 UTC"} Show Copy	7/15/2019, 10:58:30 AM

<a href="#">labcm</a>	oci_core_instance	...,"time_maintenance_reboot_due":""} <a href="#">Show</a> <a href="#">Copy</a>	7/15/2019, 11:08:22 AM	:
<a href="#">workvm</a>	oci_core_instance	...,"time_maintenance_reboot_due":""} <a href="#">Show</a> <a href="#">Copy</a>	7/15/2019, 10:58:32 AM	:
<a href="#">labnet_ig</a>	oci_core_internet_gateway	...fk3kurtxyau7uez3fmoix5uhw2efduoq") <a href="#">Show</a> <a href="#">Copy</a>	7/15/2019, 10:58:31 AM	:
<a href="#">cm_sec</a>	oci_core_security_list	...fk3kurtxyau7uez3fmoix5uhw2efduoq") <a href="#">Show</a> <a href="#">Copy</a>	7/15/2019, 10:58:31 AM	:
<a href="#">cm</a>	oci_core_subnet	...al_router_mac":"00:00:17:CB:77:95"} <a href="#">Show</a> <a href="#">Copy</a>	7/15/2019, 10:58:31 AM	:
<a href="#">envs</a>	oci_core_subnet	...al_router_mac":"00:00:17:CB:77:95"} <a href="#">Show</a> <a href="#">Copy</a>	7/15/2019, 10:58:31 AM	:
<a href="#">labnet</a>	oci_core_virtual_network	...omain_name":"labnet.oraclevcn.com") <a href="#">Show</a> <a href="#">Copy</a>	7/15/2019, 10:58:30 AM	:
oci_identity_api_key.labApiKey	oci_identity_api_key	...vh5caxbtbugm6y5bnjc75n7kem55fz4q") <a href="#">Show</a> <a href="#">Copy</a>	7/15/2019, 10:58:23 AM	:
PSFT_Lab	oci_identity_compartment	...2019-07-15 05:28:23.643 +0000 UTC") <a href="#">Show</a> <a href="#">Copy</a>	7/15/2019, 10:58:23 AM	:
CMadmins_Lab	oci_identity_group	...2019-07-15 05:28:23.364 +0000 UTC") <a href="#">Show</a> <a href="#">Copy</a>	7/15/2019, 10:58:23 AM	:
policy_Lab	oci_identity_policy	...2019-07-15 05:28:30.791 +0000 UTC") <a href="#">Show</a> <a href="#">Copy</a>	7/15/2019, 10:58:30 AM	:
psftadmin_Lab	oci_identity_user	...2019-07-15 05:28:23.492 +0000 UTC") <a href="#">Show</a> <a href="#">Copy</a>	7/15/2019, 10:58:23 AM	:

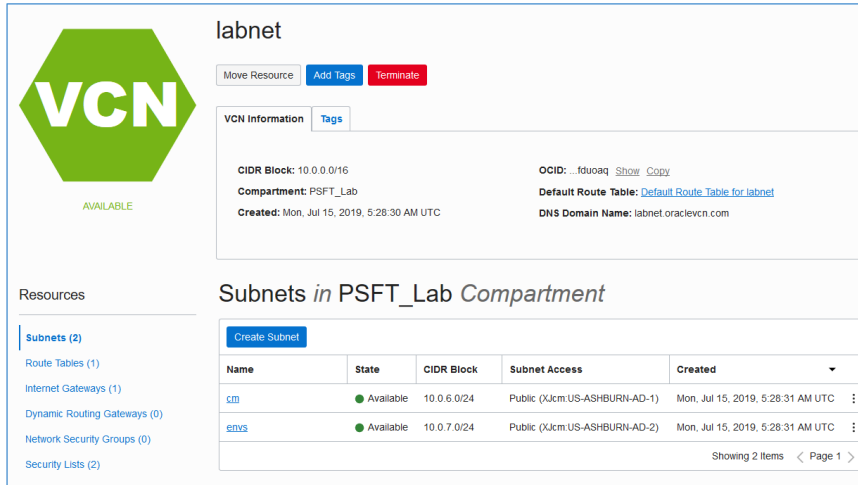
## Appendix E – Provisioning Windows Instances

In this lab exercise, Windows node was removed from the topology to keep the provisioning process short and simple. If you want to provision Windows instances as part of an environment at a later point in time, you can do so easily.



## Appendix F – Creating a new subnet

1. Navigate to Menu → Networking → Virtual Cloud Networks. Set the Compartment to 'PSFT\_Lab'. Click on the existing VCN "labnet".



**labnet**

Move Resource Add Tags Terminate

VCN Information Tags

CIDR Block: 10.0.0.0/16 OCID: ...fdv0a9 [Show](#) [Copy](#)  
Compartment: PSFT\_Lab Default Route Table: [Default Route Table for labnet](#)  
Created: Mon, Jul 15, 2019, 5:28:30 AM UTC DNS Domain Name: labnet.oraclevcn.com

Resources

Subnets (2)

Route Tables (1)

Internet Gateways (1)

Dynamic Routing Gateways (0)

Network Security Groups (0)

Security Lists (2)

**Subnets in PSFT\_Lab Compartment**

Create Subnet

Name	State	CIDR Block	Subnet Access	Created	
cm	Available	10.0.6.0/24	Public (Ucm:US-ASHBURN-AD-1)	Mon, Jul 15, 2019, 5:28:31 AM UTC	:
envs	Available	10.0.7.0/24	Public (Ucm:US-ASHBURN-AD-2)	Mon, Jul 15, 2019, 5:28:31 AM UTC	:

Showing 2 items < Page 1 >

2. Click on Create Subnet button to add a new subnet. Use default route table, and default DHCP options. Use 10.0.8.0/24 as the CIDR for subnet.

Create Subnet

[help](#) [cancel](#)

If the Route Table, DHCP Options, or Security Lists are in a different Compartment than the Subnet, enable Compartment selection for those resources: [Click here](#)

NAME

MySubnet

SUBNET TYPE

☐ REGIONAL (RECOMMENDED)  
Instances in the subnet can be created in any availability domain in the region. Useful for high availability.

☒ AVAILABILITY DOMAIN-SPECIFIC  
Instances in the subnet can only be created in one availability domain in the region.

AVAILABILITY DOMAIN

Xjcm-US-ASHBURN-AD-3

CIDR BLOCK

10.0.8.0/24

Specified IP addresses: 10.0.8.0-10.0.8.255 (256 IP addresses)

ROUTE TABLE

Default Route Table for labnet

SUBNET ACCESS

☐ PRIVATE SUBNET  
Prohibit public IP addresses for instances in this Subnet

☒ PUBLIC SUBNET  
Allow public IP addresses for instances in this Subnet

Attribute	Value
Name	MySubnet
Subnet Type	Availability Domain-specific
Availability Domain	AD 3
CIDR Block	10.0.8.0/24
Route Table	Default Route Table for labnet
Subnet Access	Public Subnet
DNS Resolution	Enable Use DNS hostnames in this SUBNET
Security List	Add two security lists using the button + Additional Security List as shown in below screenshot – 1. cm_sec 2. Default Security List for labnet

Security Lists

SECURITY LIST

cm\_sec

SECURITY LIST


Default Security List for labnet

SECURITY LIST

Select a Security List

+ Additional Security List

3. Click Create Subnet. The newly created subnet will be as shown



AVAILABLE

MySubnet

Edit

Move Resource

Add Tags

Terminate

Subnet information

Tags

OCID: ...qpkf0a Show Copy

CIDR Block: 10.0.8.0/24

Virtual Router Mac Address: 00:00:17:CB:77:95

Subnet Type: Availability Domain-Specific

Availability Domain: XJcm-US-ASHBURN-AD-3

Compartment: PSFT\_Lab

DNS Domain Name: mysubnet... Show Copy

Subnet Access: Public Subnet

DHCP Options: Default DHCP Options for labnet

Route Table: Default Route Table for labnet

Resources

Security Lists (2)

Tag Filters

add | clear

no tag filters applied

Security Lists

Add Security List

Name	State	Compartment	Created	
<a>cm_sec</a>	Available	PSFT_Lab	Mon, Jul 15, 2019, 5:28:31 AM UTC	
<a>Default Security List for labnet</a>	Available	PSFT_Lab	Mon, Jul 15, 2019, 5:28:30 AM UTC	

Showing 2 items < Page 1 >

