



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 two OCI images for Cloud Manager VM and Custom Oracle Linux VM,
 - g. Create Cloud Manager instance
 - h. Bootstrap install Cloud Manager application
4. Configure Cloud Manager Settings (Section: Configure Cloud Manager)
5. Create a File Server 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, a Environment Template and provision a new PeopleSoft environment.

2. Requirements

Time: 10 mins

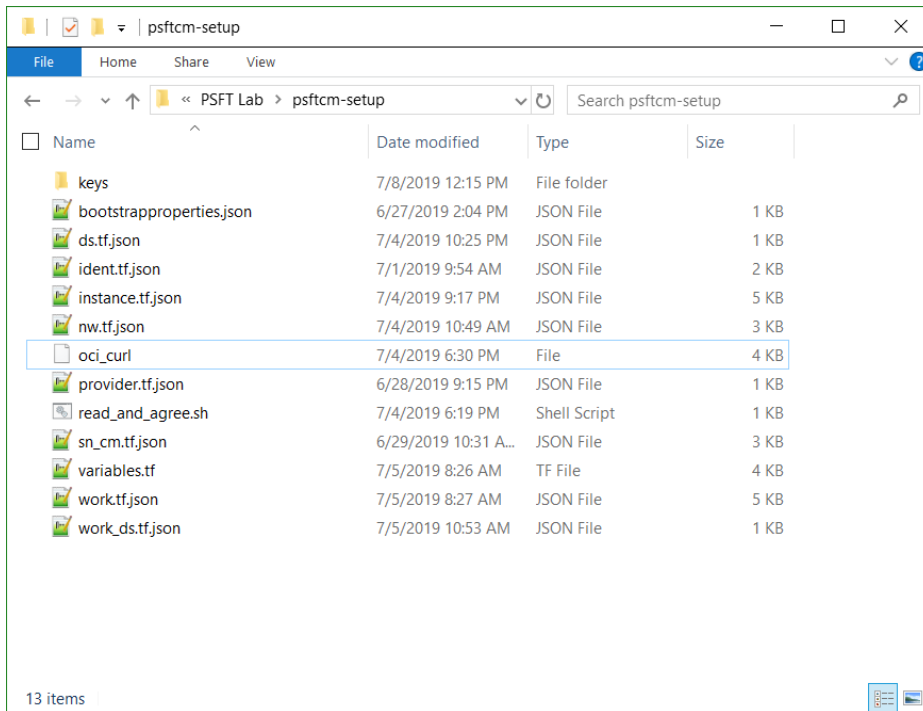
1. User already has a tenancy with Administrator user access.
2. My Oracle Support credentials
3. Minimum resources in Home region of the tenancy
 - a. 4 x VM shapes (VM.Standard2.2 or VM.Standard2.1, VM.StandardE2.2 or VM.StandardE2.1)
 - b. 1 TB block storage
4. User brings their own Windows workstation/laptop 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.

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.zip' - [DOWNLOAD](#)
3. Extract psftcm-setup-2.1.zip to a new folder on the laptop/workstation. Let's call it 'psftcm-setup'. Below are the contents in the zip file.



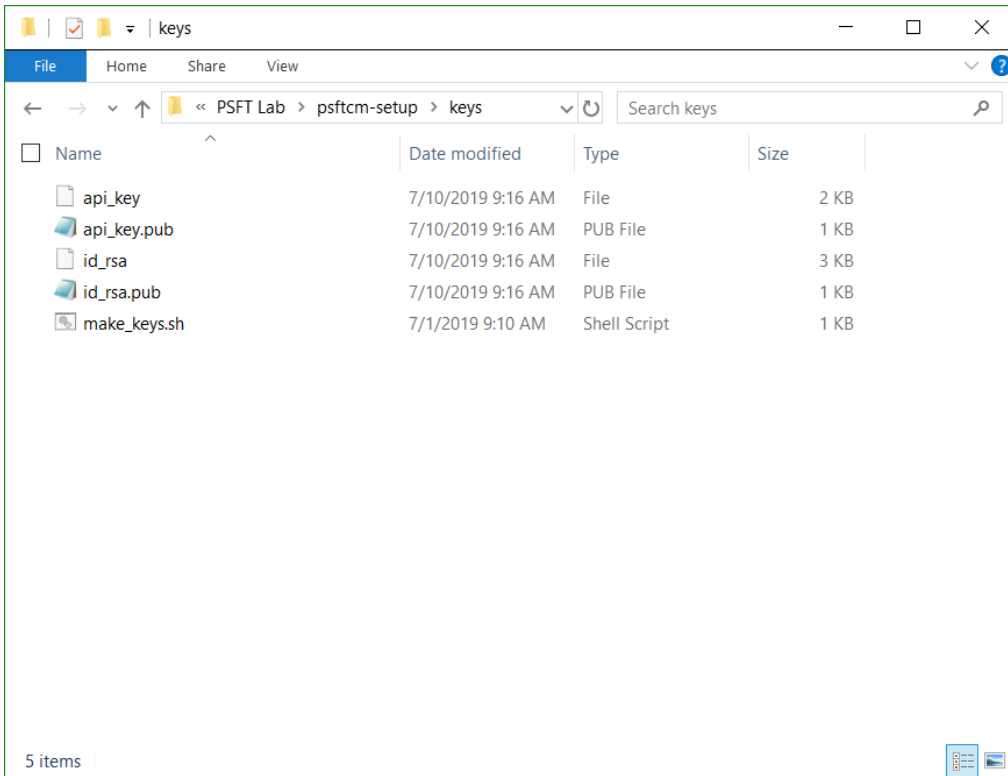
4. Launch Git Bash command line and navigate to the newly extracted folder – 'psftcm-setup'.
5. Change directory to "keys" folder, under the extracted folder

```
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
```

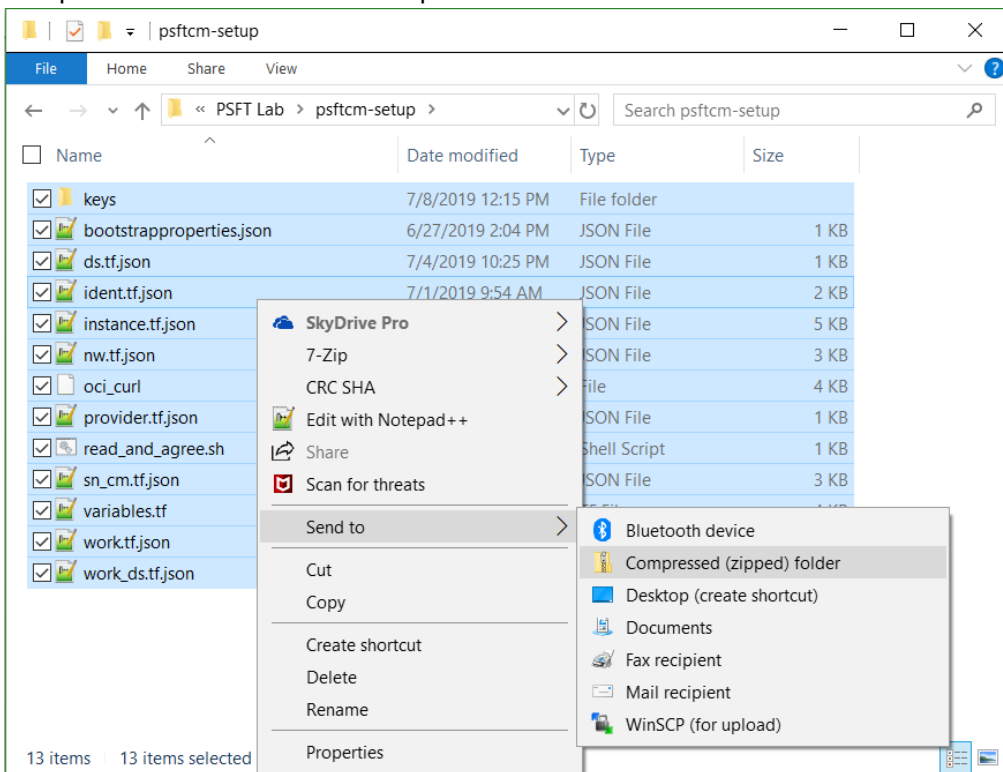
6. Run the script “bash make_keys.sh”

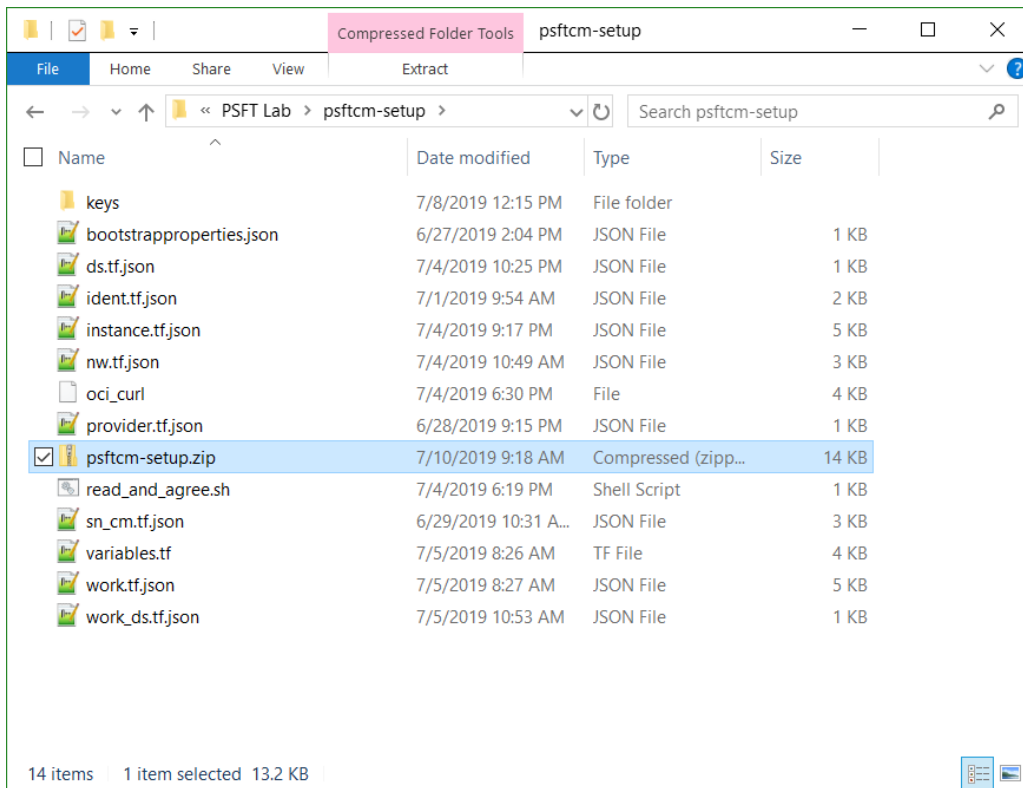
```
MINGW64:/c/Users/nagenkri.ORADEV/Downloads/PSFT Lab/psftcm-setup/keys
Your identification has been saved in ./id_rsa.
Your public key has been saved in ./id_rsa.pub.
The key fingerprint is:
SHA256:/h8pYp99rDVBuZj+eMe90BYRkmSknMqo+BqjhAfZuyY nagenkri@NAGENKRI-IN
The key's randomart image is:
+---[RSA 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**

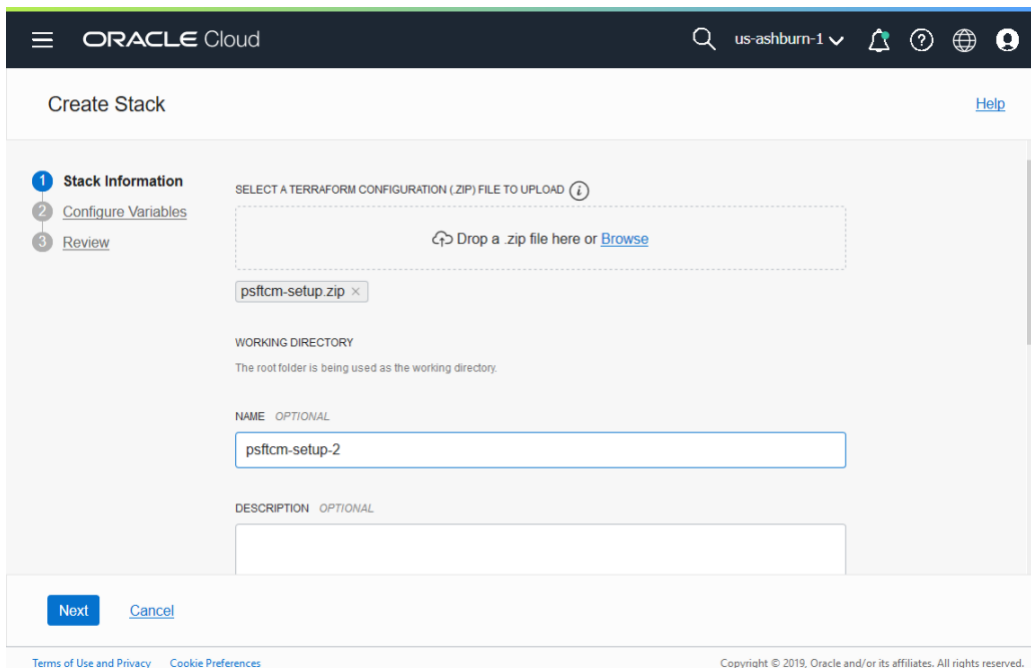


- Zip the contents in the extracted folder into a new zip file. Let's call it 'psftcm-setup.zip'. Note – The zip file should be created as shown below. Select all files → right-click → Send to → Compressed folder. Rename the zip file.

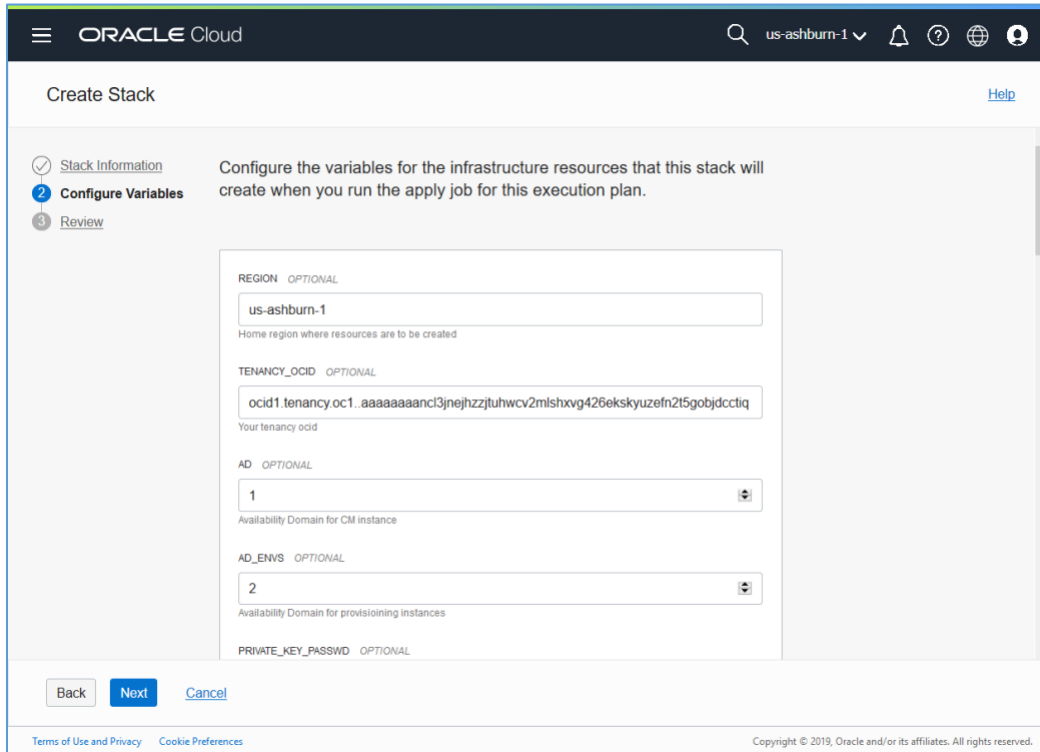




9. In a browser, launch the OCI console and navigate to Resource Manager → Stacks. Refer [Appendix A](#) for details on how to get OCI console URL.
10. Add a new stack by uploading the newly created psftcm-setup.zip file.



11. Click Next. The default values should work in most cases. Configure variables only if required. If your tenancy has different set of shapes, or they are allocated across different ADs, only then update the values. Otherwise, the defaults should work. **Note - If the Region doesn't have more than one AD (e.g. Toronto), then the value of "AD_ENVS" must be set to 1 (i.e. same as the value of "AD" variable)**

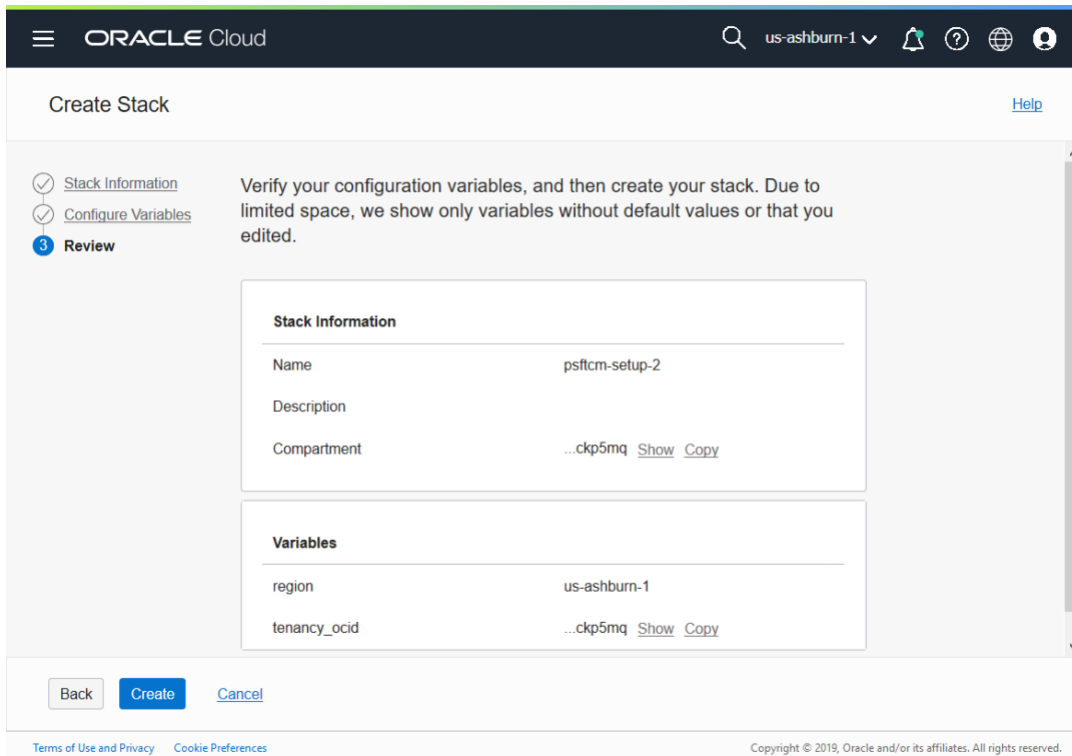


Below table summarizes the inputs in Configure Variables page.

Attribute	Value
REGION	us-ashburn-1
TENANCY_OCID	Your tenancy OCID. Available under Administration → Tenancy Details on OCI console.
AD	Availability Domain 1 (Availability Domain for CM instance)
AD_ENVS	Availability Domain 2 (Availability Domain for provisioning PSFT environment) Note - If the Region doesn't have more than one AD (e.g. Toronto), then the value of "AD_ENVS" must be set to 1 (i.e. same as the value of "AD" variable)
PRIVATE_KEY_PASSWD	-
CM_IMAGE_OCID	ocid1.image.oc1..aaaaaaaao27ngxnn2ndopc2b4u2xmrvixq6yuadstna5nvf2v5pwakobhjma
CUSTOM_LINUX_IMAGE_OCID	ocid1.image.oc1..aaaaaaa6zck2znchipgxnmj5y5pslzlxbjqynqbefaud6dwf5ibnxra5uyjq

SHAPE_NAME	VM.Standard2.2 (Modify in case your tenancy does not have this shape)
TEMP_SHAPE_NAME	VM.Standard2.1 (Modify in case your tenancy does not have this shape)
CM_IMAGE_LISTING_ID	ocid1.appcataloglisting.oc1..aaaaaaaanqkuc5fit7nax6fltq gox7ucpqxvlaeiqktr2qyih754y5mzrowq
CUSTOM_IMAGE_RESOURCE_VER	OCI_X86_64_PSFTBASE_OL_6.10_01
DB_CONNECT_PWD	peop1e
ACCESS_PWD	SYSAD123
DB_ADMIN_PWD	Passw0rd#
OPR_PWD	Passw0rd
PIA_GATEWAY_USER_PWD	Passw0rd
WEBSERVER_ADMIN_USER_PWD	Passw0rd
PROFILE_USER_PWD	PTWEBSERVER
DOMAIN_CONN_PWD	Passw0rd123

12. Click Next and review your inputs.



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us-ashburn-1

Create Stack [Help](#)

Stack Information
 Configure Variables
 Review

Verify your configuration variables, and then create your stack. Due to limited space, we show only variables without default values or that you edited.

Stack Information

Name psftcm-setup-2

Description

Compartment ...ckp5mq [Show](#) [Copy](#)

Variables

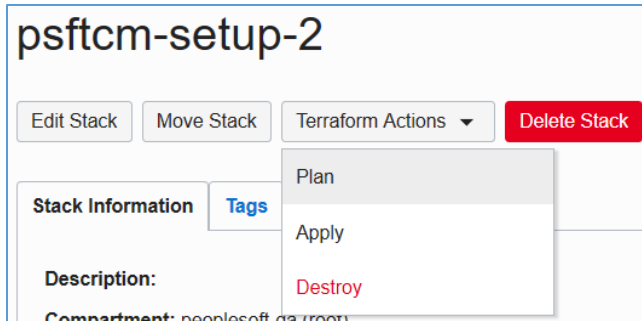
region us-ashburn-1

tenancy_ocid ...ckp5mq [Show](#) [Copy](#)

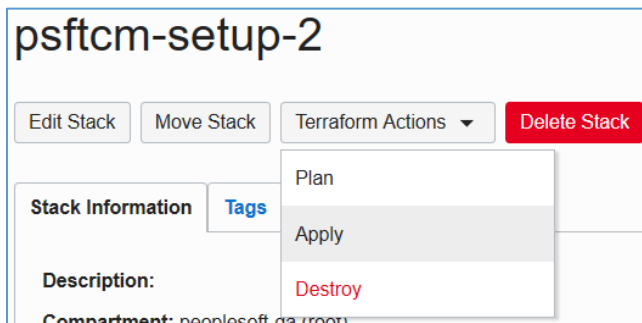
[Terms of Use and Privacy](#)
[Cookie Preferences](#)
Copyright © 2019, Oracle and/or its affiliates. All rights reserved.

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.



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



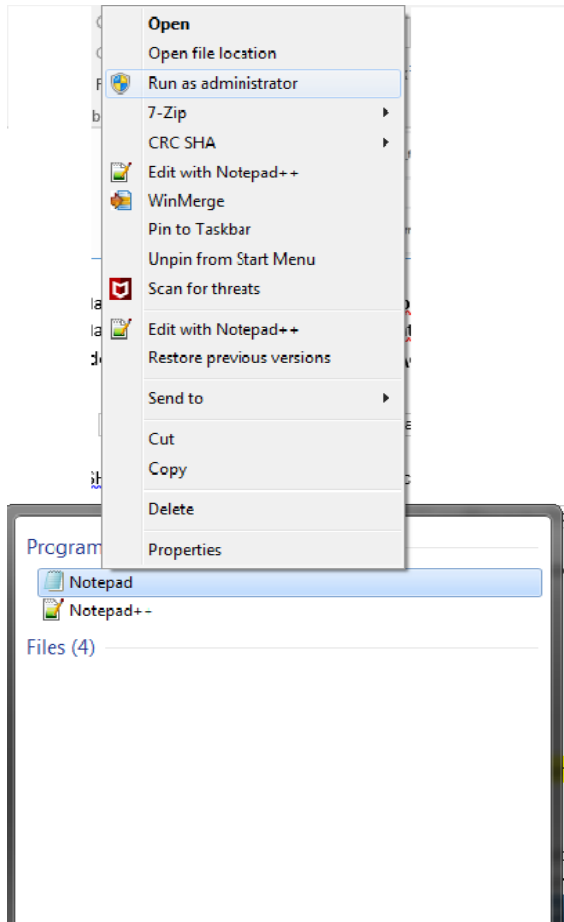
16. Terraform Apply job is a long running process. After it completes, the output from this job will have the IP address and PIA URL of CM instance. To obtain those details, click on the Job name.

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

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

Resources		Outputs	
		Key	Value
Logs Variables Associated Resources Outputs		CM_http_url	http://labcm.cm.labnet.oraclevcn.com:8000
		CM_https_url	https://labcm.cm.labnet.oraclevcn.com:8443
		CM_private_ip	10.0.6.3
		CM_public_ip	129.213.145.213
		Custom_Linux_Image_for_CM	ocid1.image.oc1..aaaaaaa6zck2znchpigmj5y5pslzlbxjqynqbefaud6dwf5ibnxra5uyjq Hide Copy
		temp_vm_hostname	workvm
		Windows_2012_Platform_Image_for_CM	ocid1.image.oc1.iad.aaaaaaaaypu4ncl5aqki4fsxezho7dmm7jydgpucc6pfrz6ikyy4ii2t3m7q Hide Copy

18. Make a note of **Custom_Linux_Image_for_CM** and **Windows_2012_Platform_Image_for_CM** values. These OCIDs 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**.
 - I. 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.

```
$ tailf /home/opc/bootstrap/CloudManagerStatus.log
```

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

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
```

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

A. Delete the temporary workvm:

1. On the OCI console, navigate to Menu → Compute → Instances. Set the compartment to PSFT_Lab. Click on the 'workvm'. Delete this instance, by clicking on Actions → Terminate. Enable option 'Permanently delete the attached Boot Volume'. Wait for few seconds for the status to change to TERMINATING or TERMINATED.

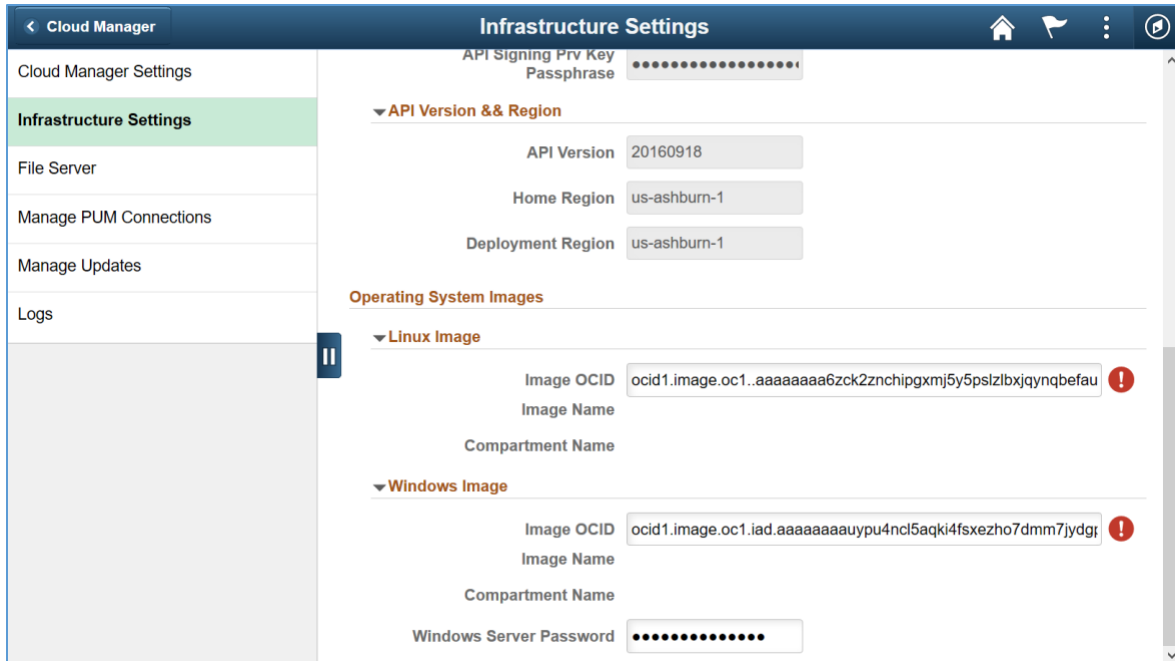
B. Configure Cloud Manager Settings:

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 a 'Cloud Manager Settings' header and several menu items: Infrastructure Settings, File Server, Manage PUM Connections, Manage Updates, and Logs. The main content area is titled 'Cloud Manager Settings' and features a 'Save Settings' button in the top right. The primary section is 'My Oracle Support(MOS) Credentials', which includes a descriptive paragraph about MOS and a form with three input fields: 'User ID' containing 'nagendra.krishnappa@oracle.com', 'Password' with masked characters, and 'Url' containing 'https://updates.oracle.com'. Below this are sections for 'PeopleSoft Credentials', 'REST Services' (with a sub-section for '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 using below provided OCIDs. Use the OCIDs that were obtained in earlier steps.

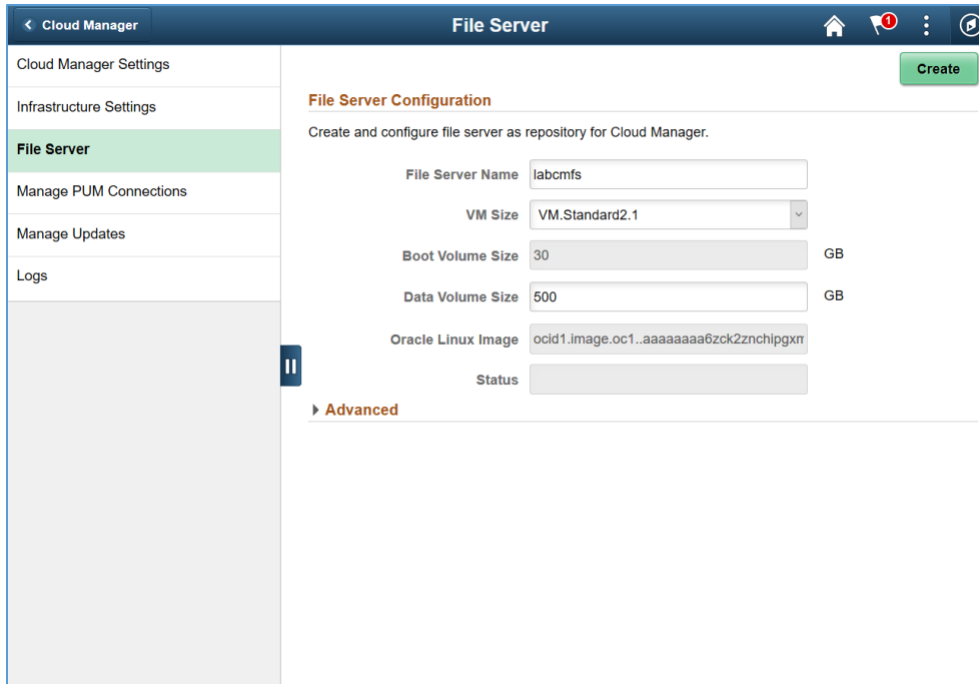
Linux	ocid1.image.oc1..aaaaaaaa6zck2znchipgxmj5y5ps1z1bxjqynqbefaud6dwf5ibnxra5uyjq
Windows	ocid1.image.oc1.iad.aaaaaaaaypu4nc15aqki4fsxezho7dmm7jydgpu6pfzr6lkyy4ii2t3m7q
Windows Password	Any complex password. For e.g zScSGFEhV^sQ6



Note – The Windows image and password used for this lab exercise is for temporary use. Please follow instructions in Cloud Manager install guide OBE on how to use a custom Windows image.

4. Click 'Save' to save the configuration.
5. Click 'Refresh OCI Metadata' button on top of the page and wait for few minutes
6. Next, navigate to File Server tab. Provide the following inputs –

File Server Name	labcmfs
VM Size	VM.Standard2.1 (Modify in case your tenancy does not have this shape)
Boot Volume Size	30 GB
Data Volume Size	500 GB



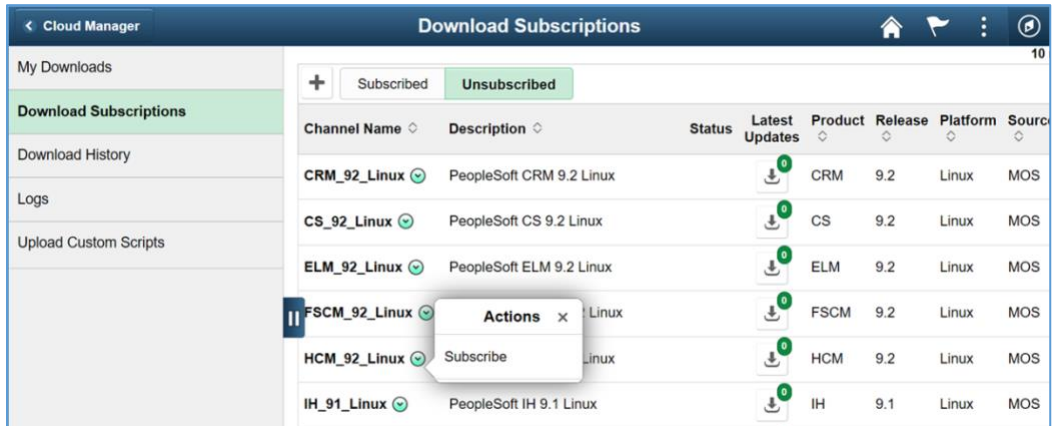
7. Click Create. This action will create a file server in 15-20 mins.
8. Wait until the file server status shows '**Configured**', and then the system is ready for downloads.

Status

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.

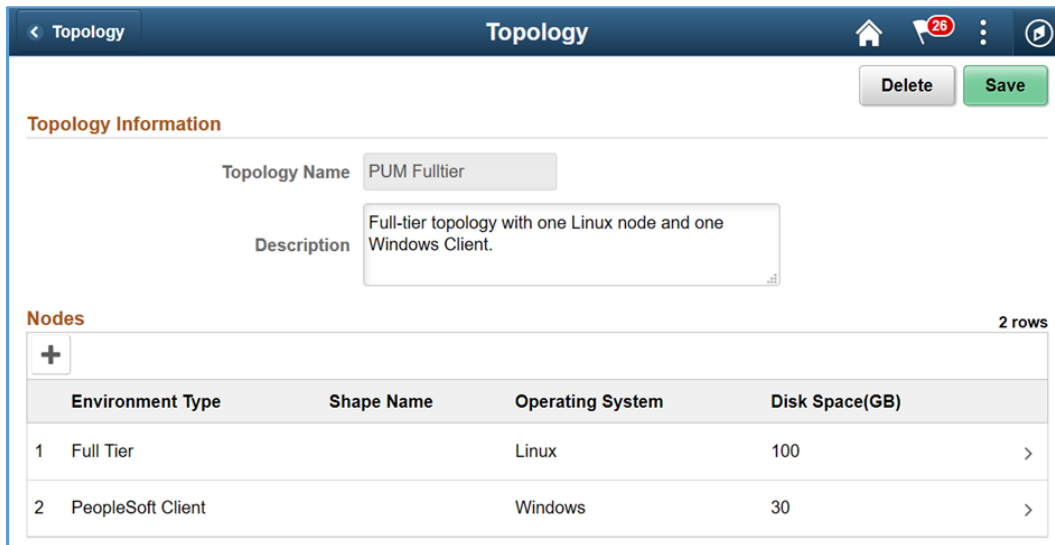


Channel Name	Description	Status	Latest Updates	Product	Release	Platform	Source
CRM_92_Linux	PeopleSoft CRM 9.2 Linux			CRM	9.2	Linux	MOS
CS_92_Linux	PeopleSoft CS 9.2 Linux			CS	9.2	Linux	MOS
ELM_92_Linux	PeopleSoft ELM 9.2 Linux			ELM	9.2	Linux	MOS
FSCM_92_Linux	PeopleSoft FSCM 9.2 Linux			FSCM	9.2	Linux	MOS
HCM_92_Linux	PeopleSoft HCM 9.2 Linux			HCM	9.2	Linux	MOS
IH_91_Linux	PeopleSoft IH 9.1 Linux			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' management interface. At the top, there is a navigation bar with a back arrow, the title 'Topology', and icons for home, notifications (26), and a play button. Below the navigation bar are 'Delete' and 'Save' buttons. The main content area is divided into two sections: 'Topology Information' and 'Nodes'.

Topology Information

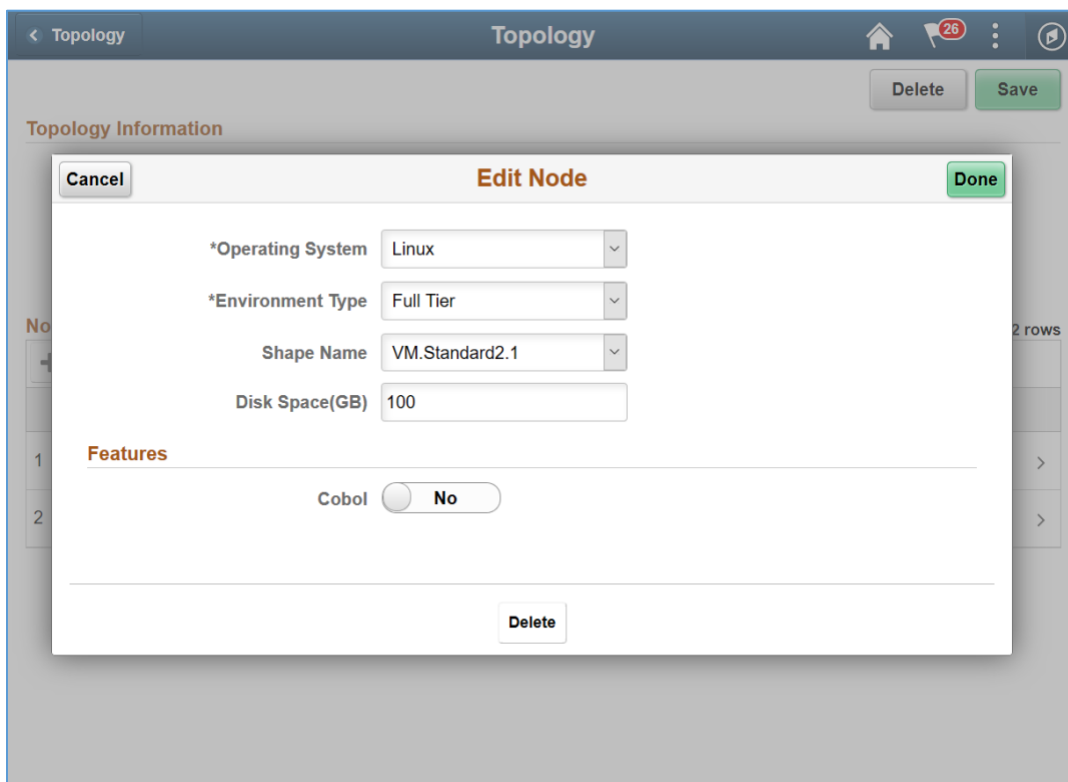
Topology Name: PUM Fulltier

Description: Full-tier topology with one Linux node and one Windows Client.

Nodes (2 rows)

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](#).

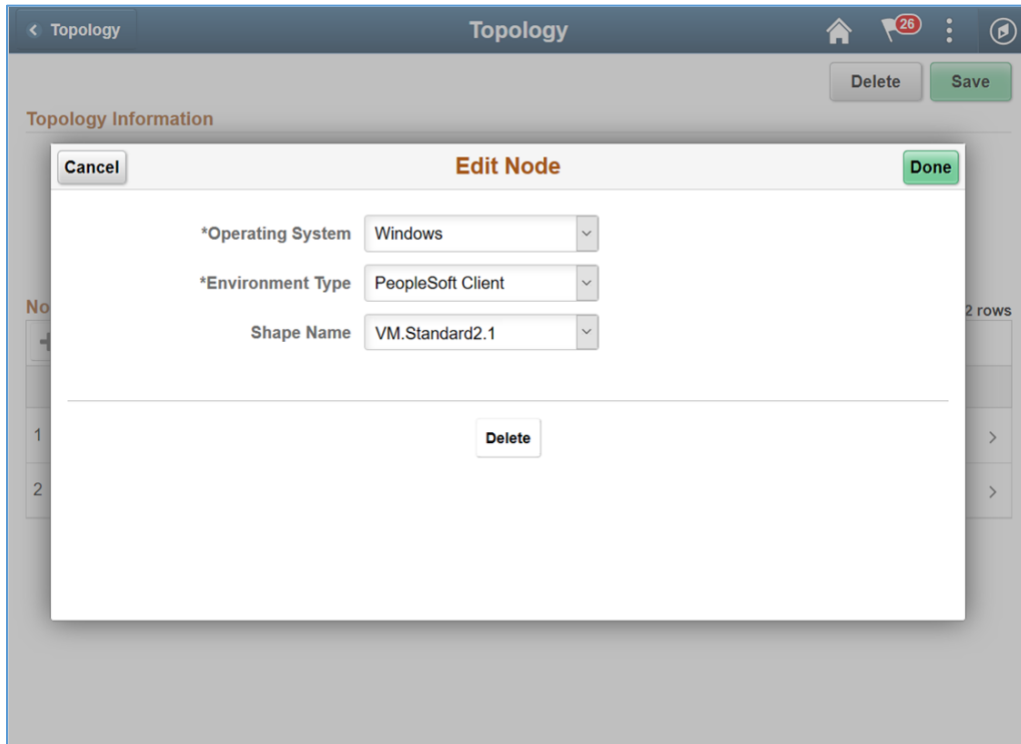


The screenshot shows the 'Edit Node' dialog box overlaid on the 'Topology' interface. The dialog has a 'Cancel' button on the top left and a 'Done' button on the top right. It contains the following fields:

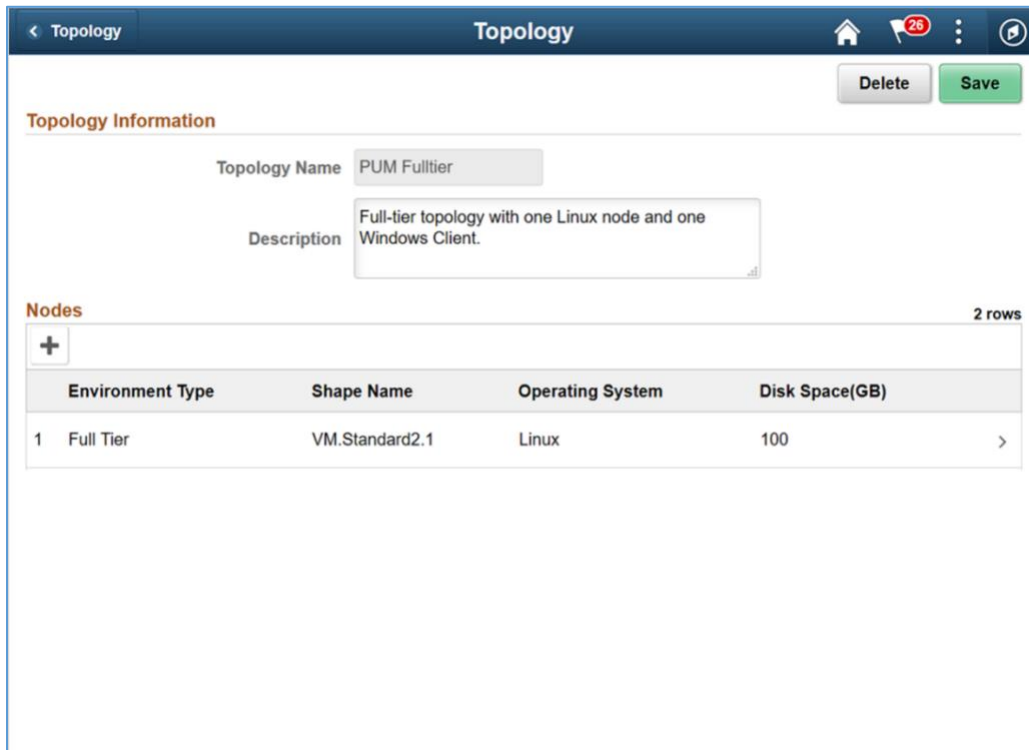
- *Operating System: Linux (dropdown)
- *Environment Type: Full Tier (dropdown)
- Shape Name: VM.Standard2.1 (dropdown)
- Disk Space(GB): 100 (text input)

Below these fields is a 'Features' section with a 'Cobol' toggle 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.



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



7. Create a new Environment Template

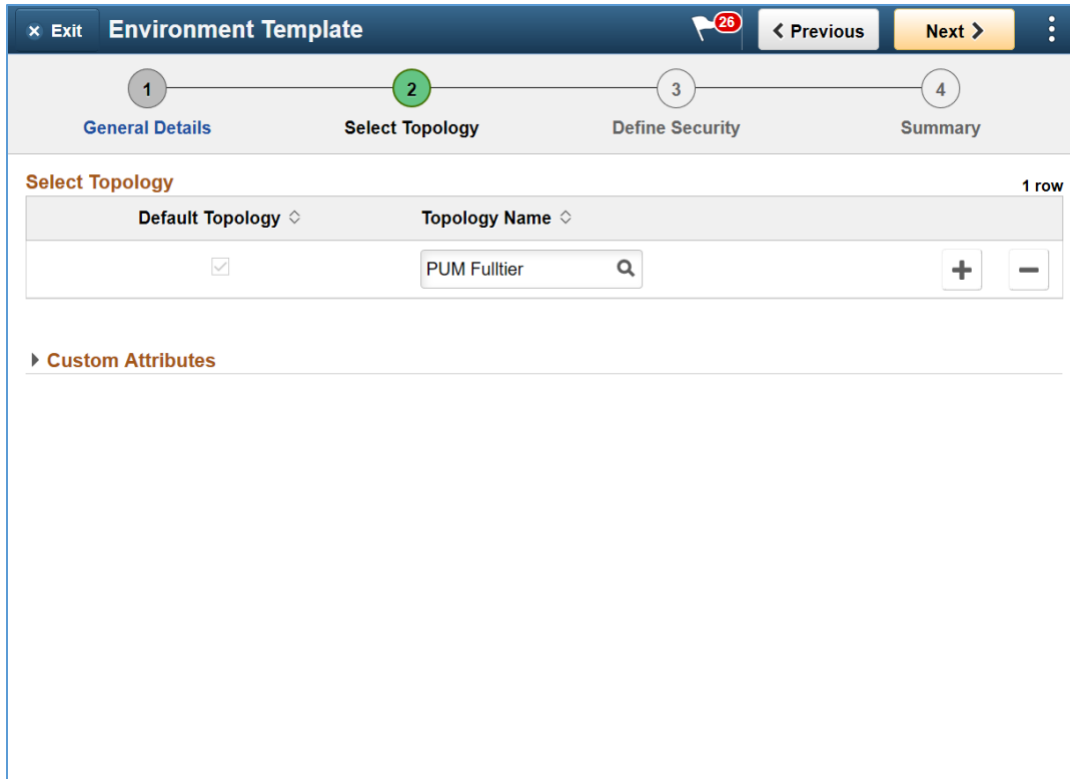
Time: 10 mins

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

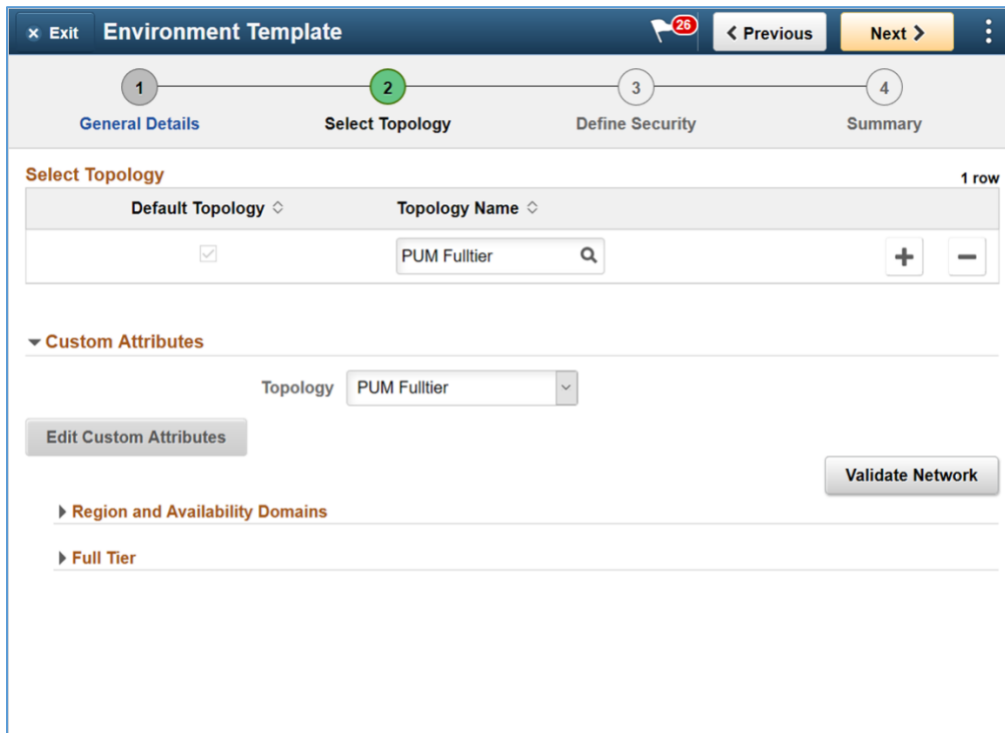
Name	MYPUM
Description	Test a PUM image
Database	Click on Search icon and select a downloaded DPK. For example. PEOPLESOFT HCM UPDATE IMAGE 9.2.030 - NATIVE OS

The screenshot shows the 'Environment Template' configuration interface. At the top, there is a navigation bar with 'Exit', 'Environment Template', a notification icon with '26', and a 'Next >' button. Below this is a progress bar with four steps: 1. General Details (highlighted with a green circle), 2. Select Topology, 3. Define Security, and 4. Summary. The main content area is divided into sections: 'General Settings' with input fields for Name (MYPUM) and Description (Test a PUM image); 'Select Database' with a search field containing 'PEOPLESOFT HCM UF' and a search icon; and a 'Details' section with a dropdown arrow and the following information: 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.

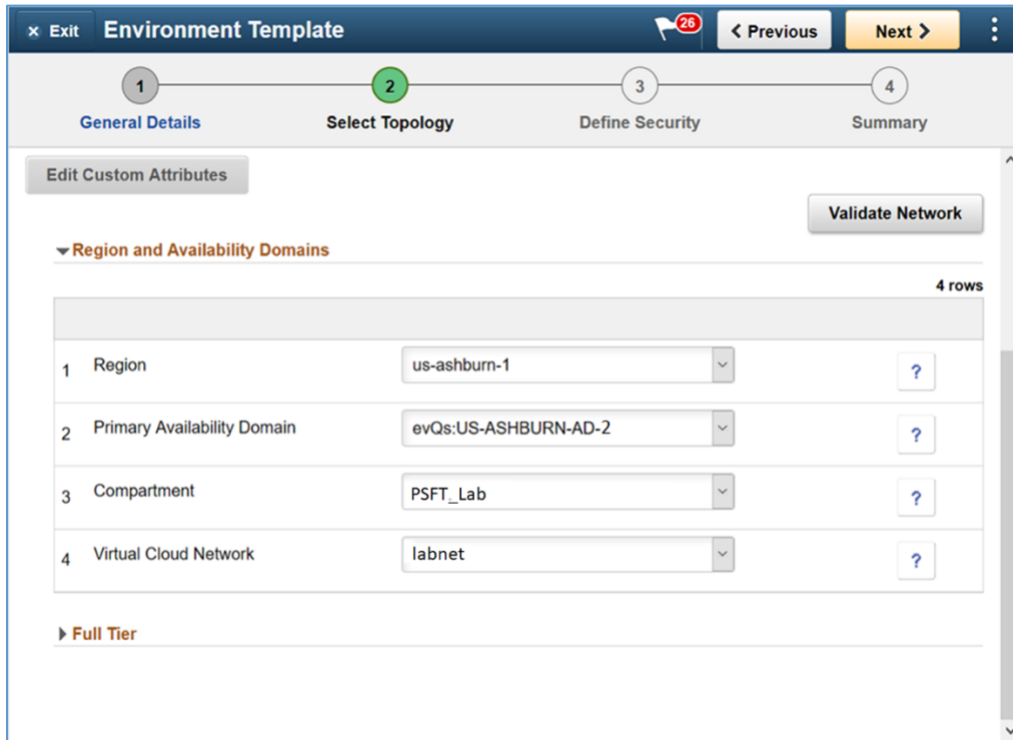


3. Expand the Custom Attributes and select the PUM Fulltier topology and click Edit Custom Attributes.



4. 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

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

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

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

The screenshot shows a 'Create Environment' dialog box. At the top, there are 'Cancel' and 'Done' buttons. The main area contains the following fields:

- Environment Name:** mypum
- Description:** Test new PUM
- Template Name:** MYPUM
- Zone:** Test

Below these fields are three expandable sections:

- Topology** (expanded)
- Environment Attributes** (expanded)
- Full Tier** (expanded)

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

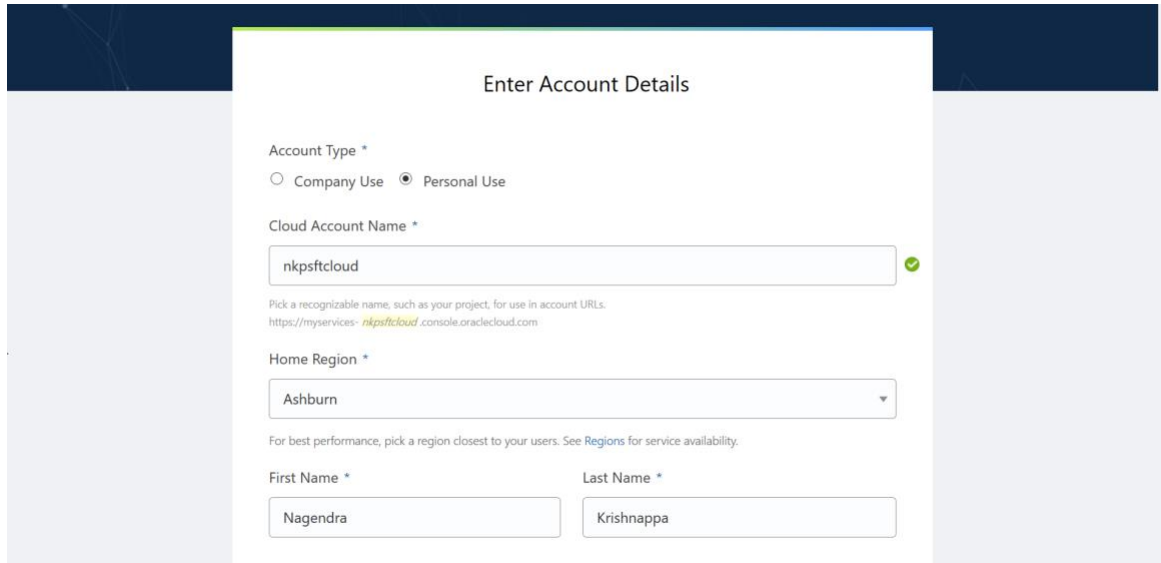
9. Additional Exercise – Provision Environments with Windows Clients

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

1. Create a Custom Windows Image – Refer [Appendix E](#)
2. Configure the Custom Windows Image OCID in Cloud Manager Settings | Infrastructure Settings – Refer step B.3 in [Configure Cloud Manager](#)
3. 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](#)
4. 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.
5. Edit the Environment Template and re-add the PUM topology – Refer step 2 in [Create a New Environment Template](#). Hint - Search for PUM topology.
6. 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](#)
7. 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. In this example, the account name provided during account creation is 'nkpsftcloud'. The URL will be <https://myservices-nkpsftcloud.console.oraclecloud.com>.

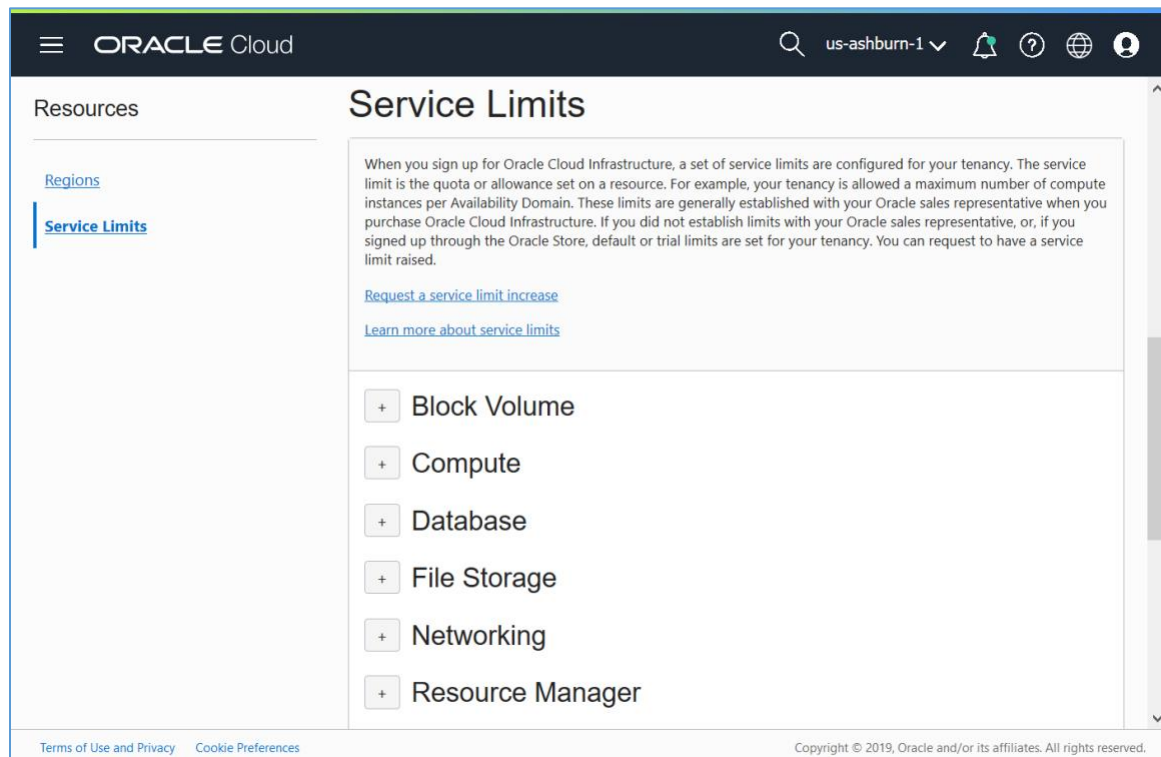


The screenshot shows the 'Enter Account Details' form in the OCI console. The form includes the following fields and options:

- Account Type ***: Radio buttons for 'Company Use' and 'Personal Use' (selected).
- Cloud Account Name ***: Text input field containing 'nkpsftcloud' with a green checkmark icon to the right.
- Home Region ***: Dropdown menu showing 'Ashburn'.
- First Name ***: Text input field containing 'Nagendra'.
- Last Name ***: Text input field containing 'Krishnappa'.

Below the 'Cloud Account Name' field, there is a note: 'Pick a recognizable name, such as your project, for use in account URLs. https://myservices-nkpsftcloud.console.oraclecloud.com'. Below the 'Home Region' dropdown, there is a note: 'For best performance, pick a region closest to your users. See Regions for service availability.'

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 header includes the Oracle Cloud logo, a search icon, and the region 'us-ashburn-1'. The main content area is titled 'Service Limits' and contains the following information:

- Resources**: A sidebar menu with 'Regions' and 'Service Limits' (selected).
- Service Limits**: A text block explaining that service limits are configured for the tenancy and providing links to 'Request a service limit increase' and 'Learn more about service limits'.
- Service Limit Categories**: A list of service categories with expandable buttons (+):
 - Block Volume
 - Compute
 - Database
 - File Storage
 - Networking
 - Resource Manager

The footer of the page includes 'Terms of Use and Privacy', 'Cookie Preferences', and 'Copyright © 2019, Oracle and/or its affiliates. All rights reserved.'

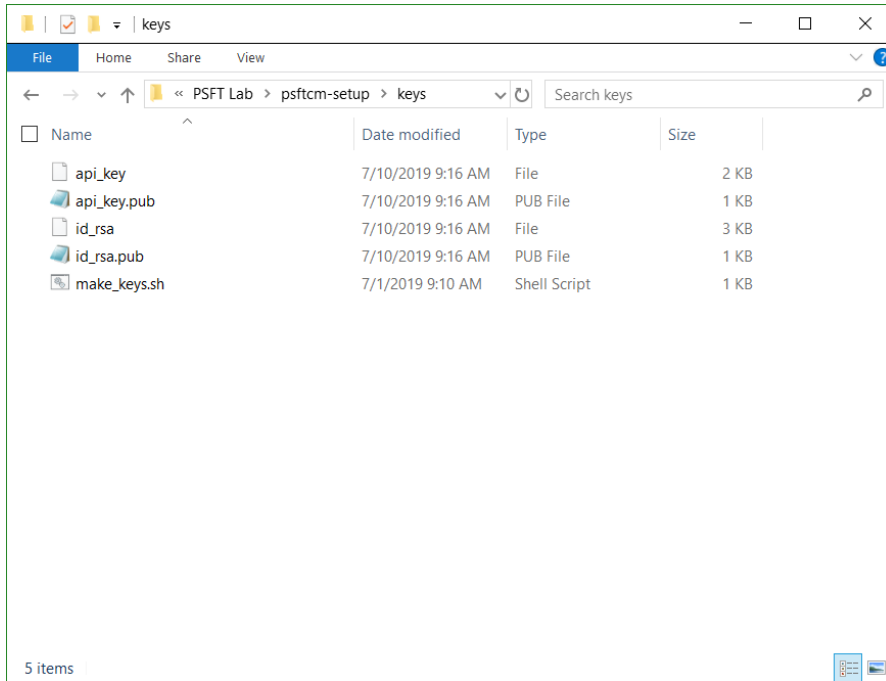
Your tenancy should have the following shapes.

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.

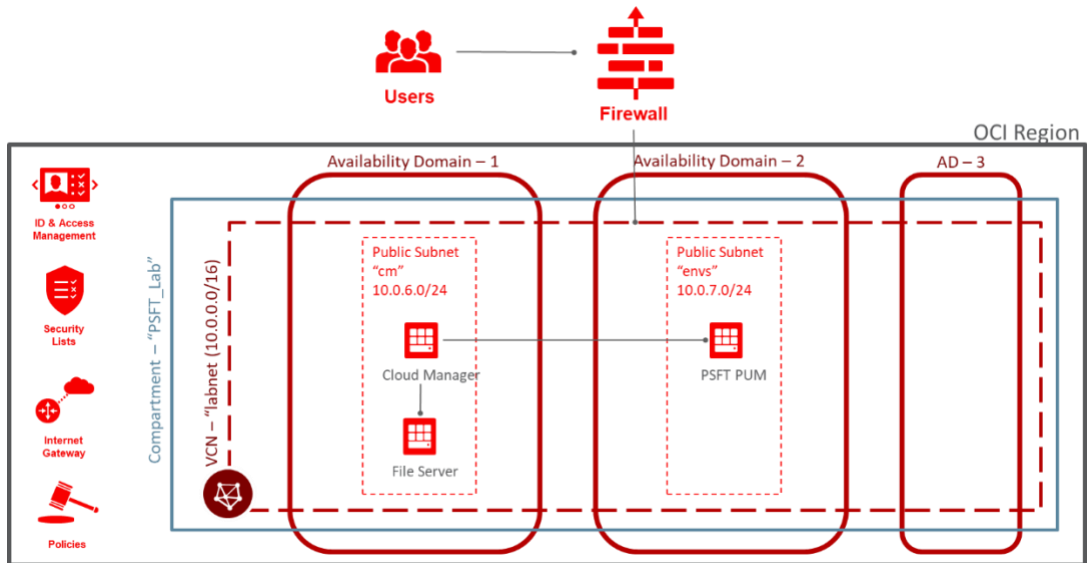
Resources	Outputs																
Logs	<table border="1"><thead><tr><th>Key</th><th>Value</th></tr></thead><tbody><tr><td>CM_http_url</td><td>http://labcm.cm.labnet.oraclevcn.com:8000</td></tr><tr><td>CM_https_url</td><td>https://labcm.cm.labnet.oraclevcn.com:8443</td></tr><tr><td>CM_private_ip</td><td>10.0.6.3</td></tr><tr><td>CM_public_ip</td><td>129.213.145.213</td></tr><tr><td>Custom_Linux_Image_for_CM</td><td>...xra5uyjq Show Copy</td></tr><tr><td>temp_vm_hostname</td><td>workvm</td></tr><tr><td>Windows_2012_Platform_Image_for_CM</td><td>...ii2t3m7q Show Copy</td></tr></tbody></table>	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	10.0.6.3	CM_public_ip	129.213.145.213	Custom_Linux_Image_for_CM	...xra5uyjq Show Copy	temp_vm_hostname	workvm	Windows_2012_Platform_Image_for_CM	...ii2t3m7q Show Copy
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	10.0.6.3																
CM_public_ip	129.213.145.213																
Custom_Linux_Image_for_CM	...xra5uyjq Show Copy																
temp_vm_hostname	workvm																
Windows_2012_Platform_Image_for_CM	...ii2t3m7q Show Copy																
Variables																	
Associated Resources																	
Outputs																	

Showing 7 Outputs < Page 1 >

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.

The screenshot shows the Oracle Cloud console interface for an apply-job-20190705121221. The job status is 'SUCCEEDED'. The job information includes: OCI ID: ...7ax5dq, Job Type: Apply, State: Succeeded, Start Time: 7/5/2019, 12:12:23 PM, End Time: 7/5/2019, 12:20:54 PM, Compartment: peoplesoft-qa (root), Plan Job ID: Automatically approved, and Working Directory: Not specified. Below the job information, there is a section for 'Associated Resources' which contains a table with columns: Name, Type, Attributes, and Time Created.

Name	Type	Attributes	Time Created
data.template_file...	template_file	...bserver_admin_user_pwd:"Passw0rd"} Show Copy	-

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_files.json	template_file	...bserver_admin_user_pwd:"Passw0rd"} Show Copy	-
data.template_files.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

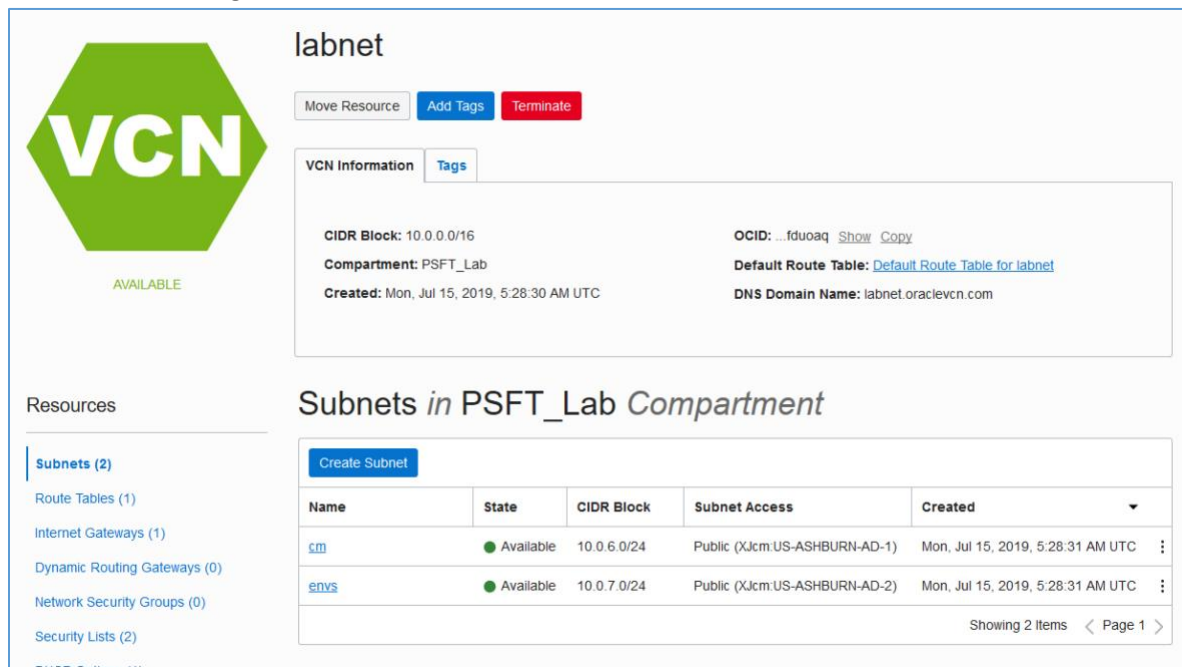
labcm	oci_core_instance	...,"time_maintenance_reboot_due":""} Show Copy	7/15/2019, 11:08:22 AM	:
workvm	oci_core_instance	...,"time_maintenance_reboot_due":""} Show Copy	7/15/2019, 10:58:32 AM	:
labnet_ig	oci_core_internet_gateway	...fk3kurtxyau7uez3fmoix5uhw2efduoaq"} Show Copy	7/15/2019, 10:58:31 AM	:
cm_sec	oci_core_security_list	...fk3kurtxyau7uez3fmoix5uhw2efduoaq"} Show Copy	7/15/2019, 10:58:31 AM	:
cm	oci_core_subnet	...al_router_mac":"00:00:17:CB:77:95"} Show Copy	7/15/2019, 10:58:31 AM	:
envs	oci_core_subnet	...al_router_mac":"00:00:17:CB:77:95"} Show Copy	7/15/2019, 10:58:31 AM	:
labnet	oci_core_virtual_network	...omain_name":"labnet.oraclevcn.com"} Show Copy	7/15/2019, 10:58:30 AM	:
oci_identity_api_key/labApiKey	oci_identity_api_key	...vh5caxbtbugm6y5txnjc75n7kem55fz4q"} Show Copy	7/15/2019, 10:58:23 AM	:
PSFT_Lab	oci_identity_compartment	...2019-07-15 05:28:23.643 +0000 UTC"} Show Copy	7/15/2019, 10:58:23 AM	:
CMadmins_Lab	oci_identity_group	...2019-07-15 05:28:23.364 +0000 UTC"} Show Copy	7/15/2019, 10:58:23 AM	:
policy_Lab	oci_identity_policy	...2019-07-15 05:28:30.791 +0000 UTC"} Show Copy	7/15/2019, 10:58:30 AM	:
psftadmin_Lab	oci_identity_user	...2019-07-15 05:28:23.492 +0000 UTC"} Show Copy	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, please follow the instructions under the section *Obtaining an Updated Microsoft Windows Image for Cloud Manager* in [Installing PeopleSoft Cloud Manager in Oracle Cloud Infrastructure](#) OBE. It is required to create a custom Windows image for use with Cloud Manager. The procedure is as explained in the [Creating a Custom Windows Image for PeopleSoft Cloud Manager in Oracle Cloud Infrastructure](#) OBE.

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: ...fduoaq [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)
- Subnet Options (1)

Subnets in PSFT_Lab Compartment

Create Subnet

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

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

CIDR BLOCK

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

ROUTE TABLE

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 – <ol style="list-style-type: none"> 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

MySubnet

AVAILABLE

Edit Move Resource Add Tags Terminate

Subnet Information Tags

OCID: ...qokfoa [Show](#) [Copy](#) **Compartment:** PSFT_Lab
CIDR Block: 10.0.8.0/24 **DNS Domain Name:** mysubnet... [Show](#) [Copy](#)
Virtual Router Mac Address: 00:00:17:CB:77:95 **Subnet Access:** Public Subnet
Subnet Type: Availability Domain-Specific **DHCP Options:** [Default DHCP Options for labnet](#)
Availability Domain: Xlcm-US-ASHBURN-AD-3 **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
cm_sec	● Available	PSFT_Lab	Mon, Jul 15, 2019, 5:28:31 AM UTC
Default Security List for labnet	● Available	PSFT_Lab	Mon, Jul 15, 2019, 5:28:30 AM UTC

Showing 2 items < Page 1 >