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October 25–29, 2015
San Francisco
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HOL 10472

How to Deploy an Oracle E-Business Suite System in Minutes Using Oracle VM Templates

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Last update: October 16th, 2015

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Special thanks to : Christophe Pauliat, Saar Maoz, Chris Kawalek, Olivier Canonge and Bruno Bottreau.



1 INTRODUCTION

1.1 LAB OBJECTIVE

This document details all actions that you will be running during Oracle OpenWorld session Hands On Lab HOL10472.

The objective of this lab is to demonstrate how OracleVM Templates provide an easy and fast way of deploying Oracle Applications like Oracle eBusiness Suite systems. Those templates are designed to build test or production environments single or multi-tier.

During this session, you are going to deploy a two-tier Oracle eBusiness Suite 12.1.3 system with one database node and one application node.

STEPS TO PERFORM BEFORE CONTINUING READING :

TO SAVE TIME, THE FIRST THING TO DO IS TO START BOTH VirtualBox VMs (Oracle VM Manager and Oracle VM Server) :

- Select the VM called “**ovmm10472.oow.local**” and click on the icon  to start it (Figure 1.1.1)
- Select the VM called “**ovs10472.oow.local**” and click on the icon  to start it (Figure 1.1.1)

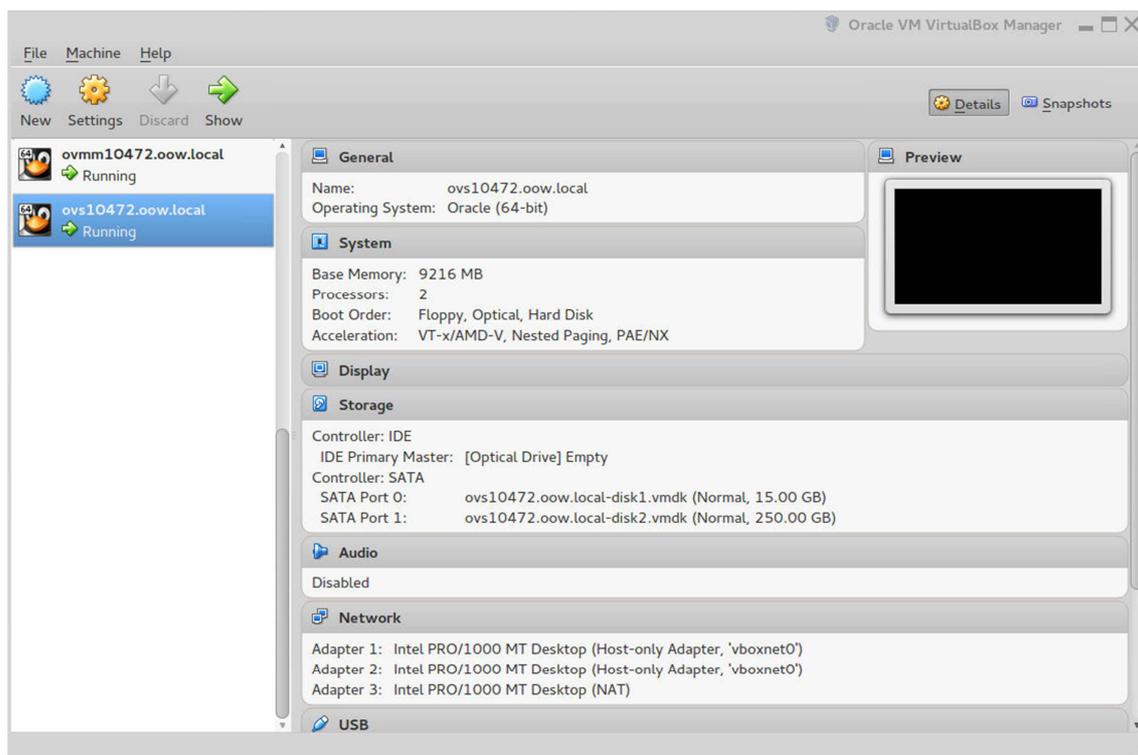


Figure 1.1.1



1.2 PREPARATION (HAS BEEN DONE BEFORE THE LAB)

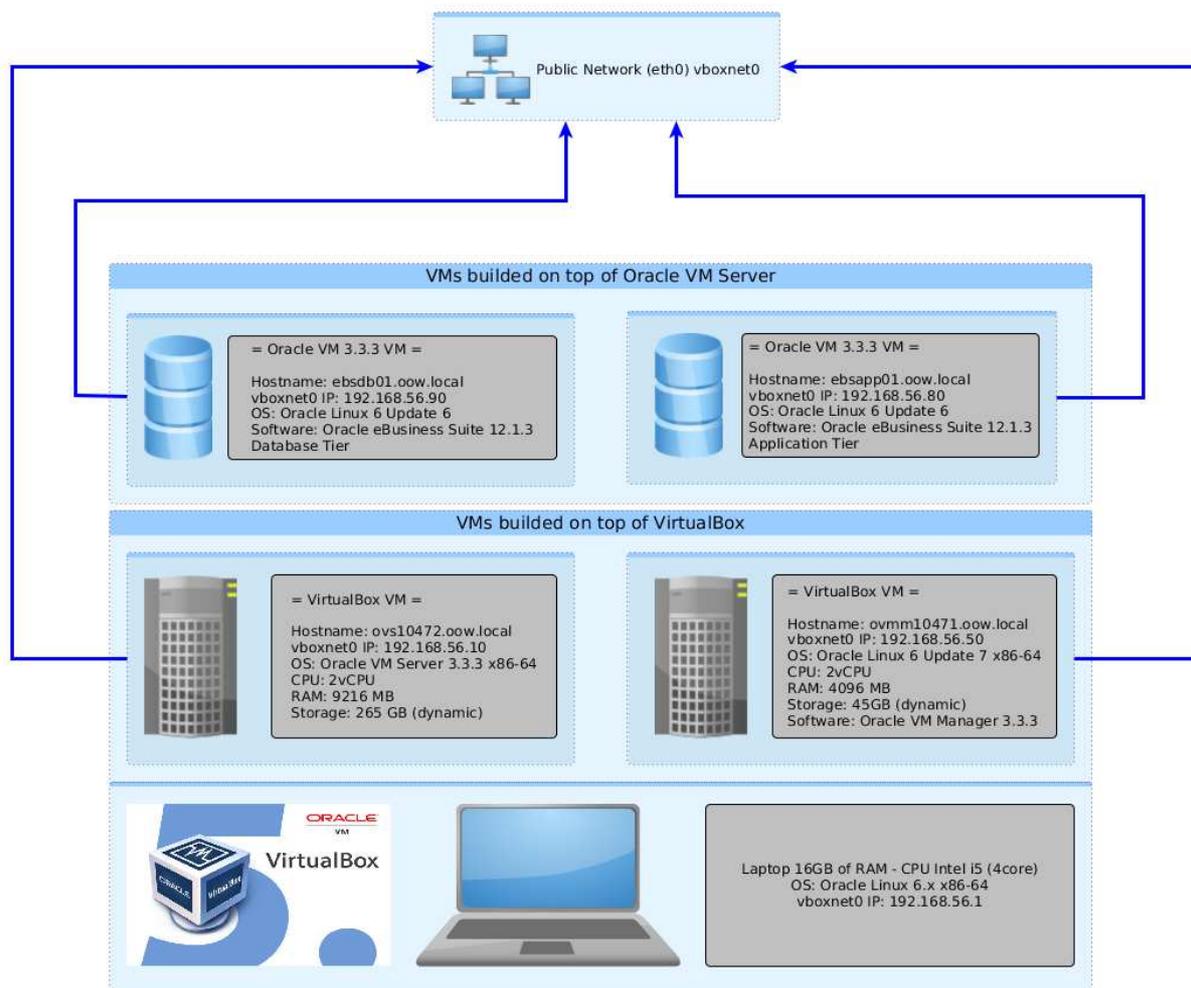
To save time and fit in the one hour slot of Oracle OpenWorld labs, some actions were made before the actual lab.

Here is a quick list of actions which were already done :

- Install Oracle Linux 6.7 (64 bits) on all the laptops.
- Install Oracle VirtualBox 5.0.6 + Extension Pack on all the laptops.
- Install an Oracle VM Manager 3.3.3 server in a VirtualBox virtual machine.
- Install an Oracle VM Server 3.3.3 server in a VirtualBox virtual machine.

1.3 GLOBAL PICTURE

The following picture shows all the components of this HOL:





2 DETAILED INSTRUCTIONS

2.1 START BOTH SERVERS (VIRTUAL BOX VMS)

As previously explained, we will use Oracle VirtualBox to host the 2 servers (Oracle VM Server, Oracle VM Manager) on a single laptop.

Both VMs should have been started in 1.1, if not please start both VMs as described in Chapter 1.1

TO DO :

- Wait for both VMs to be ready
 - Wait for the Oracle Linux display screen on the VM ovmm10472.oow.local (Figure 2.1.2)
 - Wait for Oracle VM server display screen on the VM ovs10472.oow.local (Figure 2.1.2)
 - **Open a Terminal window and check you are able to ping both VMs :**
ovmm10472.oow.local : 192.168.56.50
ovs10472.oow.local : 192.168.56.10

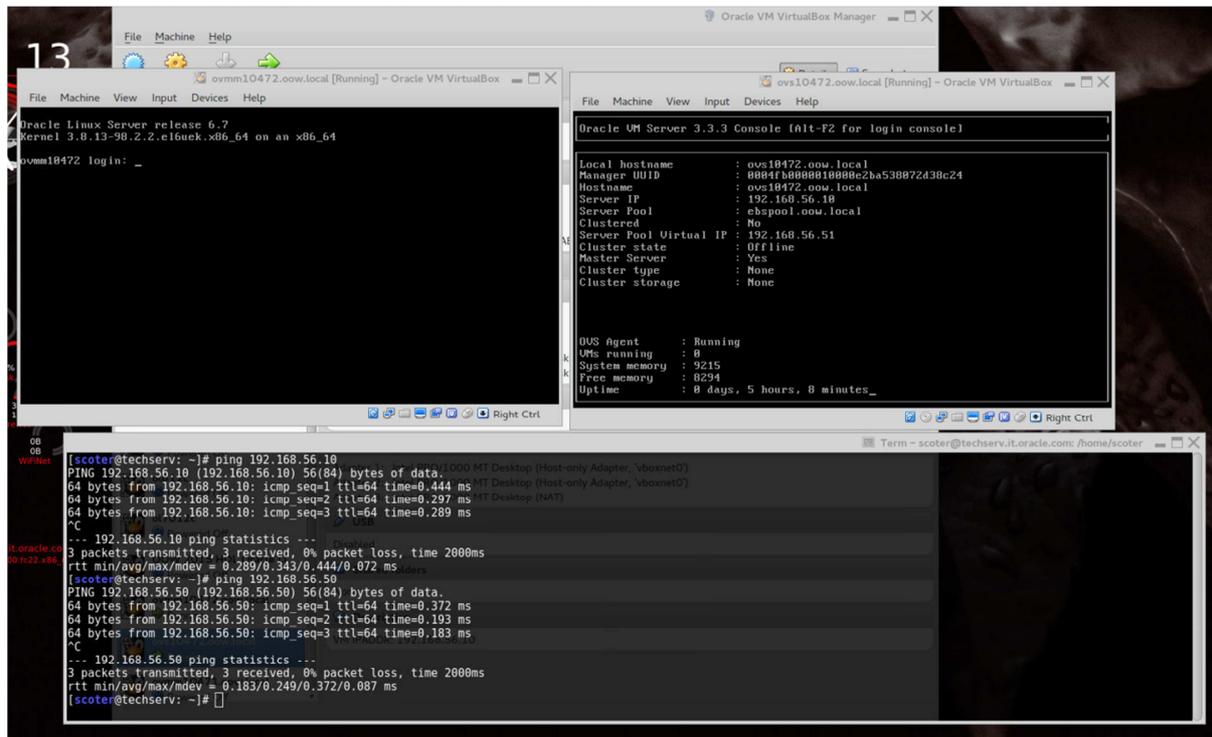


Figure 2.1.2

- Once both VMs are started and you have checked ping is OK you can :
 - Minimize the main VirtualBox program window
 - Minimize the Oracle VM Manager VirtualBox window
 - Minimize the Oracle VM Server VirtualBox window

All next steps will be done from your laptop native OS.

TO DO :

- In **servers and VMs Tab**, select **ovs10472.oow.local** and in **Perspective** choose Physicals disks (Figure 2.3.1)
- Select the 250 GB hard disk (SATA_VBOX_HARDDISK) (Figure 2.3.1)
- Click on  to refresh the Physical Disk (Figure 2.3.1) and click OK on the Confirmation window

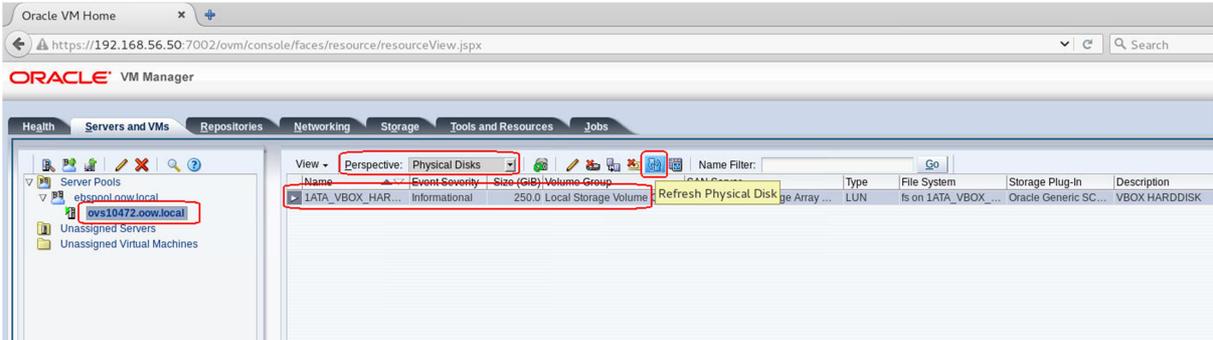


Figure 2.3.1

- In **Repositories tab** you will see the pre-existing repository named “**ebrepo_12.1.3**”. For now, this repo is not already presented to any server
- Select the repository named “**ebrepo_12.1.3**” and click  to edit the Repository (Figure 2.3.2)
- In the **Present Repository** tab, add “**ebspool.oow.local(0/1)**” to the **Presents to Server Pool(s)** list box (Figure 2.3.2)
- Click **OK** to complete

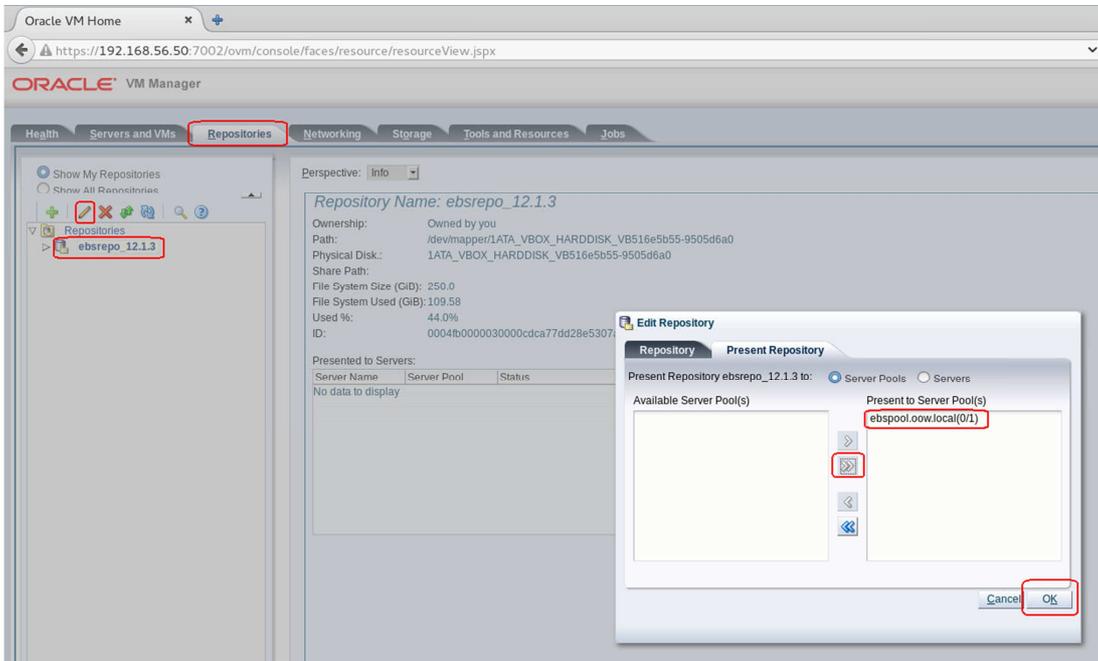


Figure 2.3.2

- The repository is now owned and presented to the Oracle VM Server “**ovs10472.oow.local**”
- You need to refresh the repository by clicking on  (Figure 2.3.3)

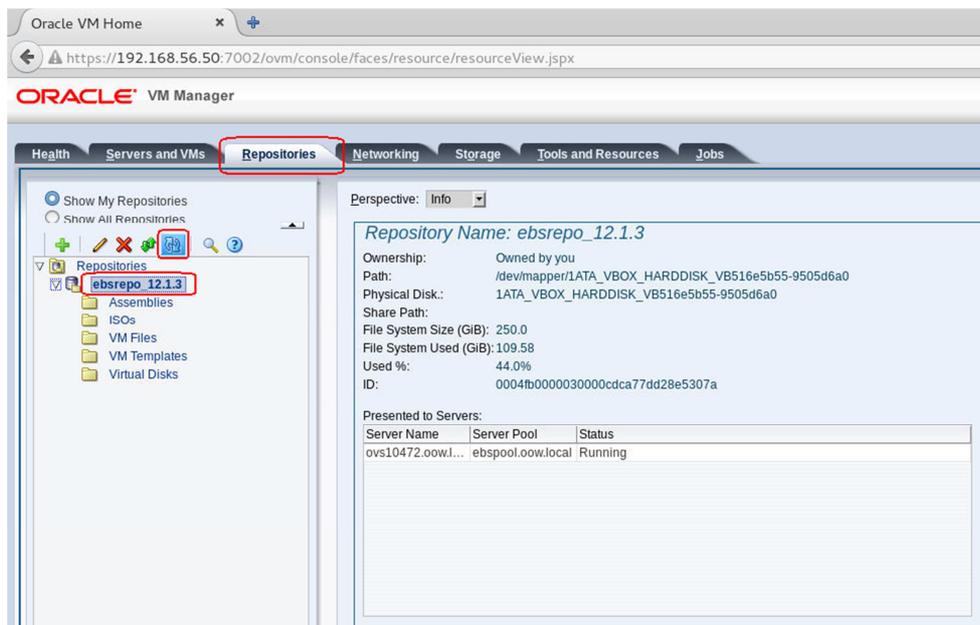


Figure 2.3.3

- Under “ebsrepo_12.1.3”, VM Templates check that following templates are available:
 - EBS1213_APPS-TIER (Oracle eBusiness Suite 12.1.3 Application Tier)
 - EBS1213_DB-TIER (Oracle eBusiness Suite 12.1.3 Database Tier)

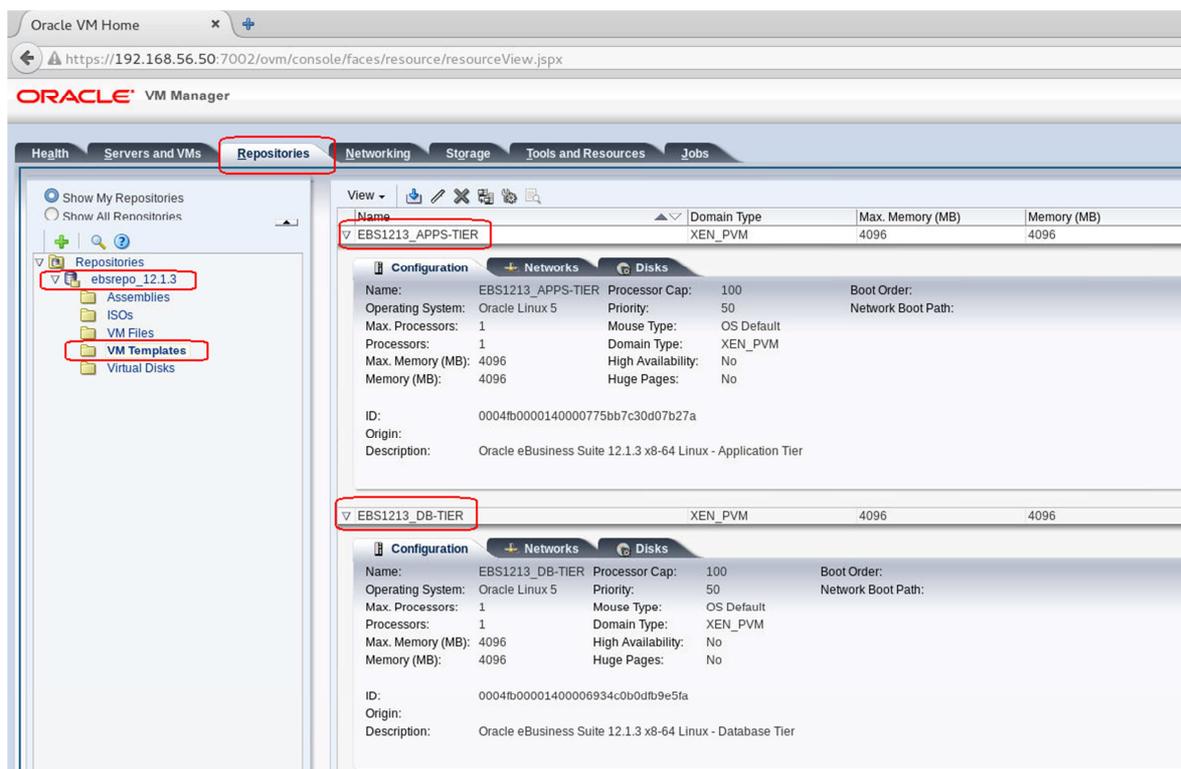


Figure 2.3.4

Now that you have a repository and a complete Oracle eBusiness Suite 12.1.3 template inside, you are going to create 2 virtual machines from this template (one for each template).

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2.4 CLONE VM FROM EBS DB-TIER ORACLE VM TEMPLATE

The goal of this HOL LAB is to configure a 2 nodes eBusiness Suite system; first node that will be created is the database-tier:

- Click the **Servers and VMs** tab (Figure 2.4.1)
- Click **Create Virtual Machine** in the toolbar (Figure 2.4.1)
- From Create Virtual Machine wizard (Figure 2.4.1)
 - Select **Clone from an existing VM Template**
 - **VM Template = EBS1213_DB-TIER**
 - **Clone Count = 1**
 - **Name Index = 0**
 - **VM Name = ebsdb01.oow.local**

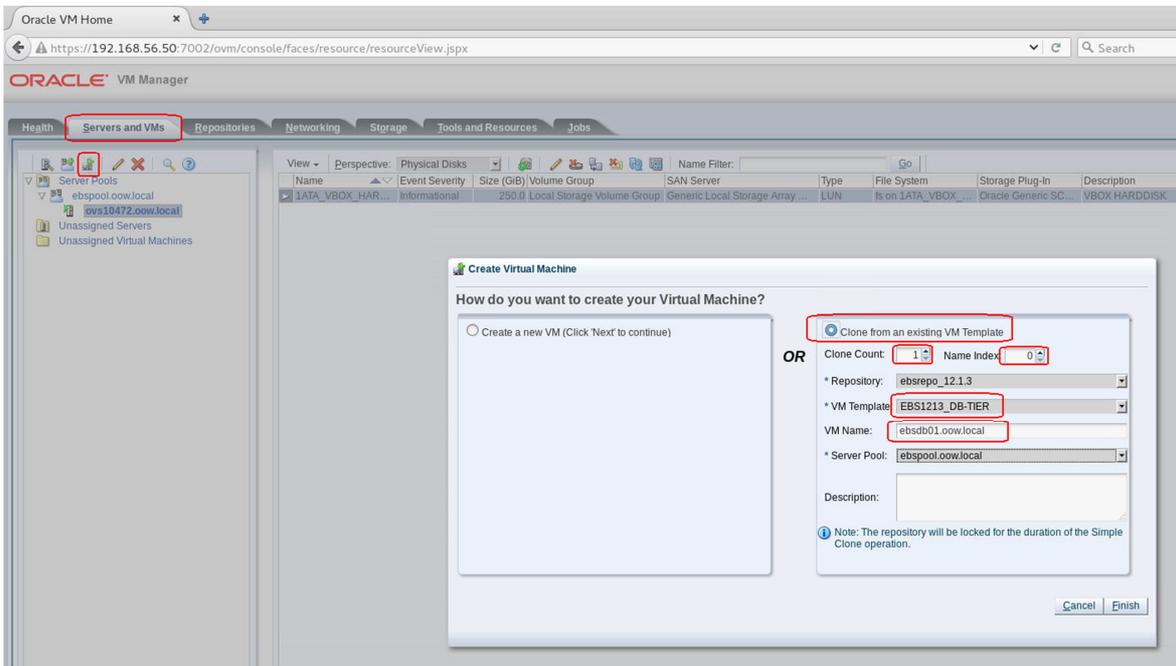


Figure 2.4.1

- Click Finish
- In **Servers and VMs** Tab, In **Perspective** select **Virtual Machines**, you should have 1 VM: **ebsdb01.oow.local.0**

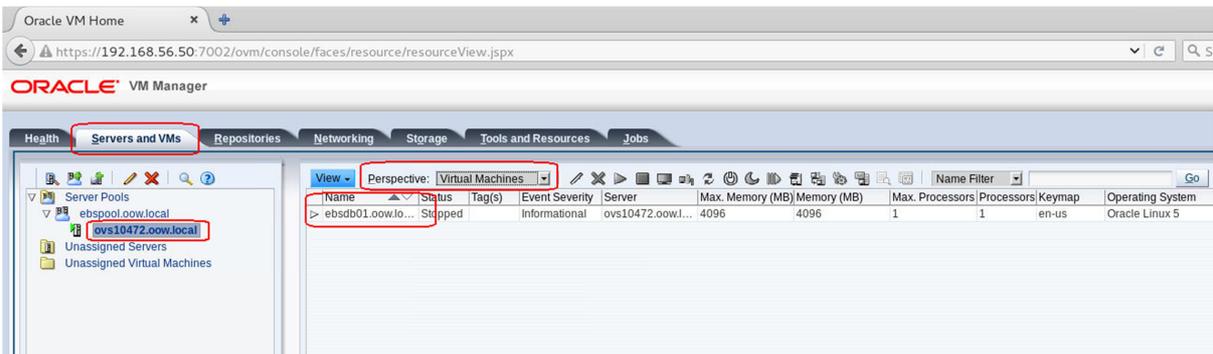


Figure 2.4.2

2.5 CLONE VM FROM EBS APP-TIER ORACLE VM TEMPLATE

The goal of this HOL LAB is to configure a 2 nodes eBusiness Suite system; second node that will be created is the application-tier:

- Click the **Servers and VMs** tab (Figure 2.5.1)
- Click **Create Virtual Machine**  in the toolbar (Figure 2.5.1)
- From Create Virtual Machine wizard (Figure 2.5.1)
 - Select **Clone from an existing VM Template**
 - **VM Template = EBS1213_APP-TIER**
 - **Clone Count = 1**
 - **Name Index = 0**
 - **VM Name = ebsapp01.oow.local**

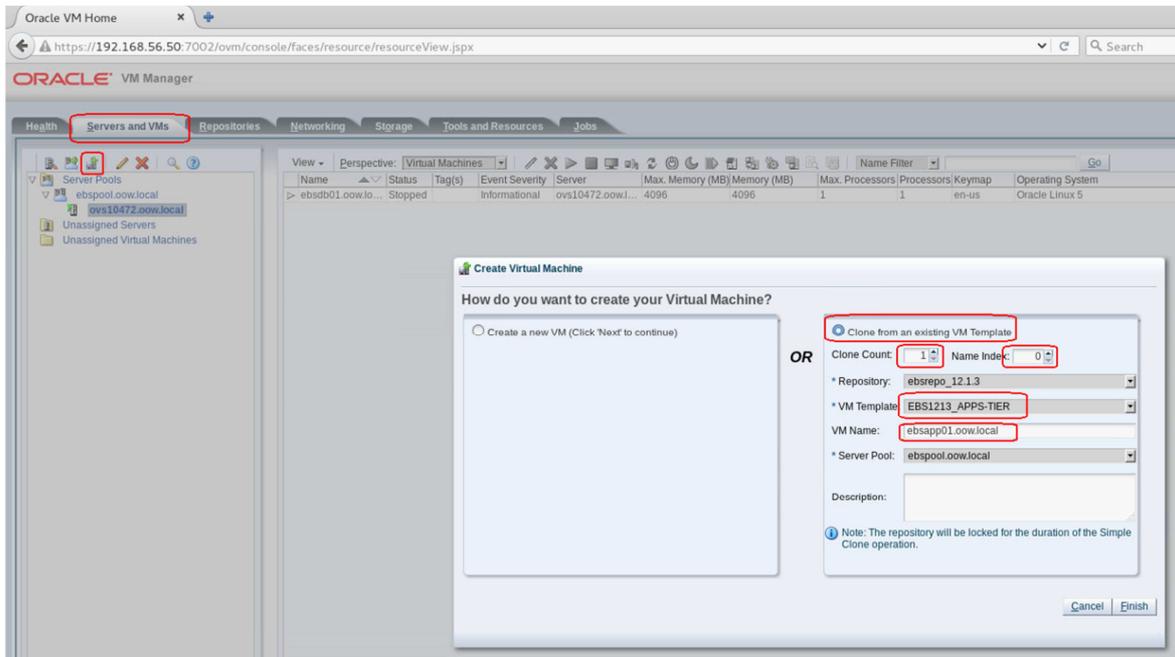


Figure 2.5.1

- Click Finish
- In **Servers and VMs** Tab, In **Perspective** select **Virtual Machines**, you should have 2 VMs: **ebsdb01.oow.local.0** and **ebsapp01.oow.local.0**

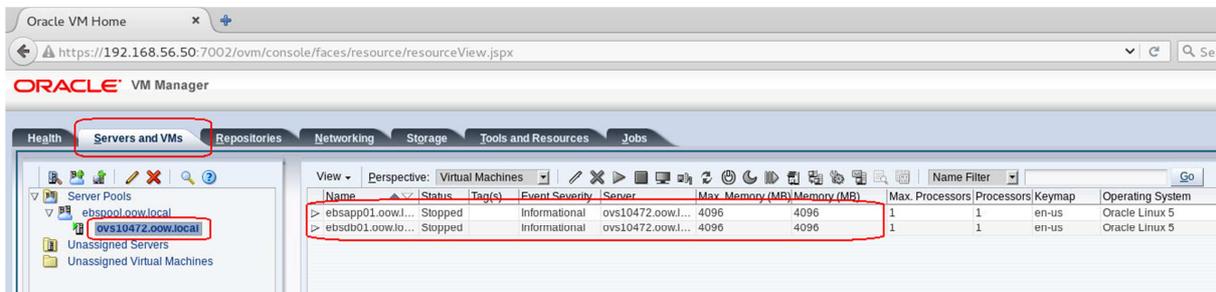


Figure 2.5.2

3 START AND CONFIGURE EBUSINESS SUITE VMS

Oracle VM Templates and Appliances are built to be automatically managed by Oracle Enterprise Manager 12c where, using OEM12c, you are able to deploy the entire Oracle E-Business Suite System; this does not mean that everything can be manually executed.

In this HOL we are going to create an Oracle eBusiness Suite 12.1.3 system composed of 1 VM related to the database-tier and 1 VM related to the application-tier; Oracle VM Templates and Appliances of newer Oracle eBusiness Suite releases (like 12.2.x) are already available but with our limited resource (single laptop) and time (1 hour) we haven't the opportunity to use the latest release.

You can find much more details at the following link:

https://blogs.oracle.com/stevenChan/entry/e_business_suite_virtual_machines

3.1 START AND CONFIGURE DATABASE-TIER VM

In "Oracle VM Manager" BUI choose VM named "**ebsdb01.oow.local**" and edit it (Figure 3.1.1):

- Click the **Servers and VMs** tab
- Click physical server "**ovs10472.oow.local**"
- Select Perspective "**Virtual Machines**"
- Select VM "**ebsdb01.oow.local**" and button "**Edit**"

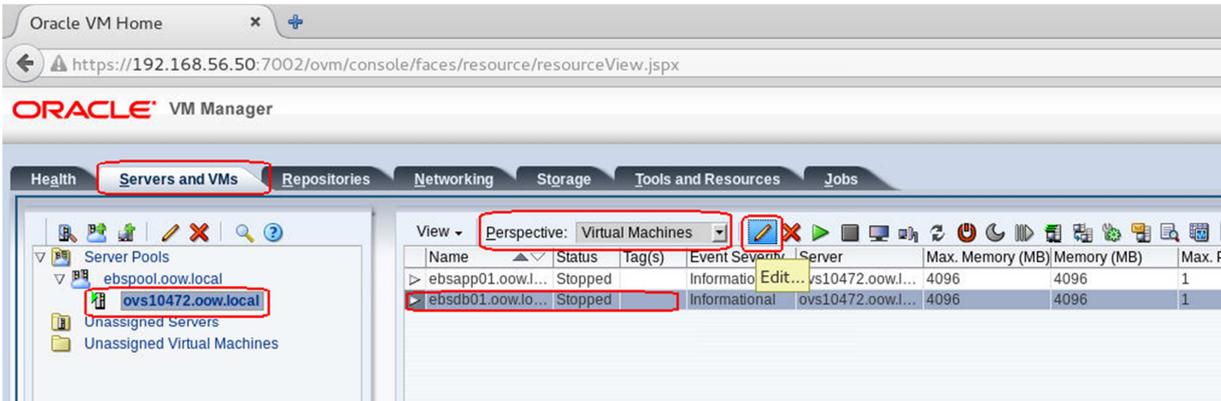


Figure 3.1.1

We need to associate vNIC to a specific network-type before starting it; in the "**Edit VM**" section (Figure 3.1.2):

- Click "**Network**" tab
- Under "**Slot 0**" choose Network named "**guest-network-public**"
- Confirm with "**OK**"

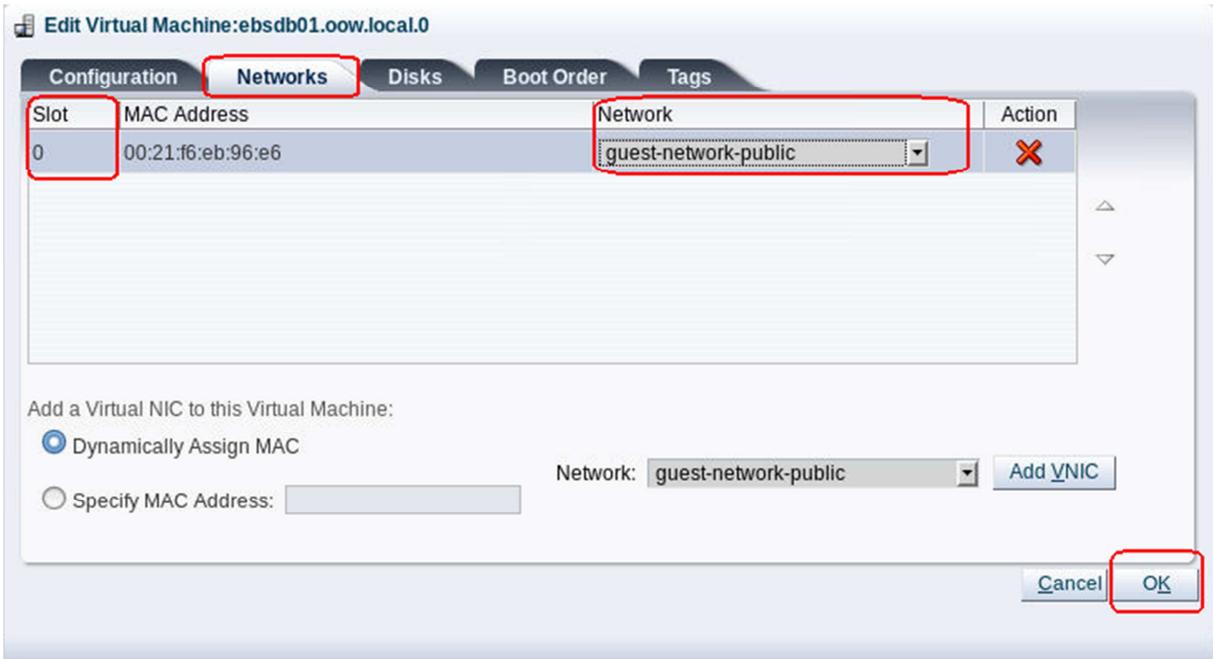


Figure 3.1.2

In “Oracle VM Manager” BUI choose VM named “**ebsdb01.oow.local**” and start it (Figure 3.1.3):

- Click the **Servers and VMs** tab
- Click physical server “**ovs10472.oow.local**”
- Select Perspective “**Virtual Machines**”
- Select VM “**ebsdb01.oow.local**” and button “**Start**”

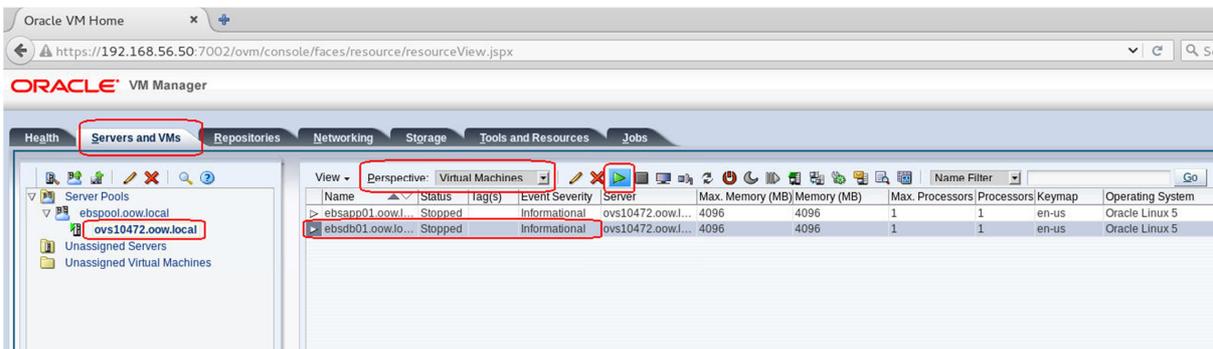


Figure 3.1.3

Once VM is started, open the console of this VM (Figure 3.1.4):

- Click the **Servers and VMs** tab
- Click physical server “**ovs10472.oow.local**”
- Select Perspective “**Virtual Machines**”
- Select VM “**ebsdb01.oow.local**” and button “**Launch Console**” 

NB: a pop-up blocker could intercept the console so you should need to accept pop-ups from this website

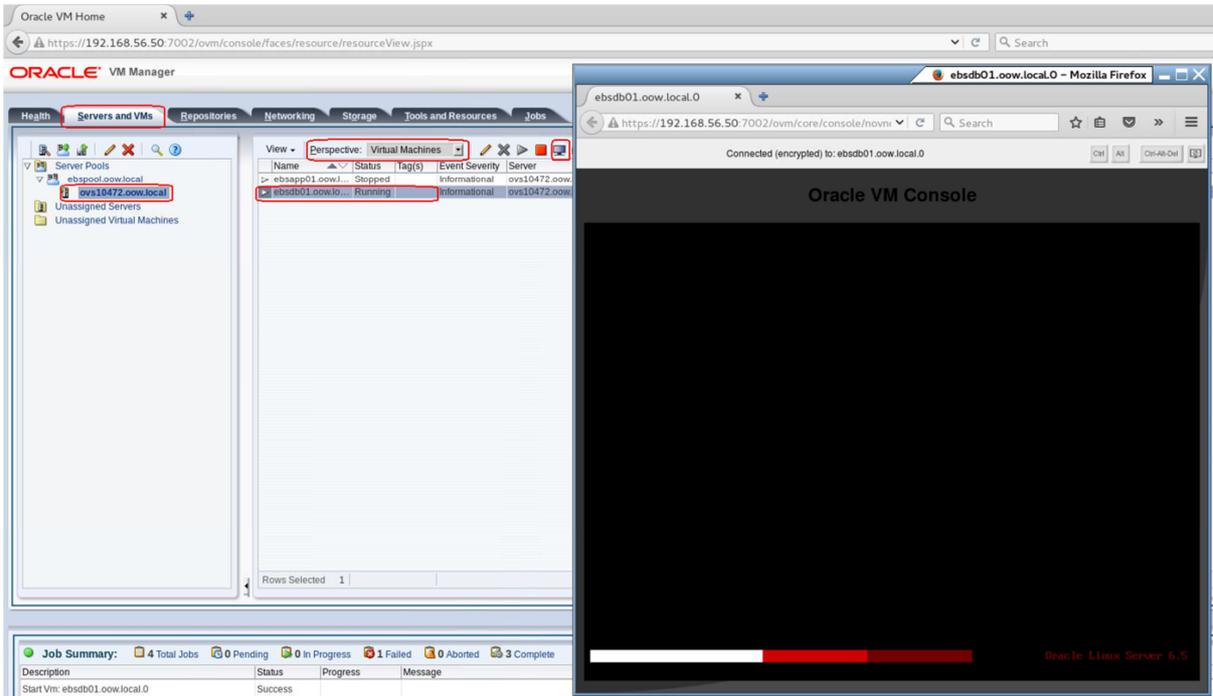


Figure 3.1.4

By the console opened, once the prompt is ready, authenticate with “root” and the template will ask for new password for users like “root”, “oracle” and “aplmgr” (you have to insert new passwords twice for each user).

Defaults used in this HOL are:

root / ovsroot
 oracle / oracle
 apmMgr / apmMgr

At the step asking for:

```

=====VM CONFIGURATION SUMMARY=====
HOSTNAME FOR THE VM : localhost.localdomain
DB FILE SYSTEM OWNER : oracle
TOP-LEVEL INSTALLATION DIRECTORY: /u01/install/PROD
SCRIPTS TO START/STOP/RECONFIGURE THE INSTANCE: /u01/install/PROD/scripts
SCRIPTS TO RECONFIGURE THE VM: /u01/install/scripts
=====

Enter PROD to manage the start/stop of the instance during reboot
Enter NONE to login to the VM

Enter your response (PROD/NONE):
  
```

Confirm with “PROD” option (this step will enable a Linux service to startup database-tier):

```
Enter your response (PROD/NONE):PROD

Configuring the PROD Instance
Copying /u01/install/PROD/scripts/proddb.rc to /etc/init.d/proddb
Adding service PROD DB to be managed on boot

[root@localhost ~]#
```

Proceed with “**ebsdb01.oow.local**” network configuration with the following steps:

1. `cd /u01/install/scripts`
2. `./configstatic.sh`

Here the details to insert into the network configuration phase (Figure 3.1.5):

- Enter static IP address: **192.168.56.90**
- Enter netmask: **255.255.255.0**
- Enter gateway: **192.168.56.1**
- Enter DNS server: **192.168.56.50**
- Enter Hostname: **ebsdb01.oow.local** (*correct name should be proposed*)

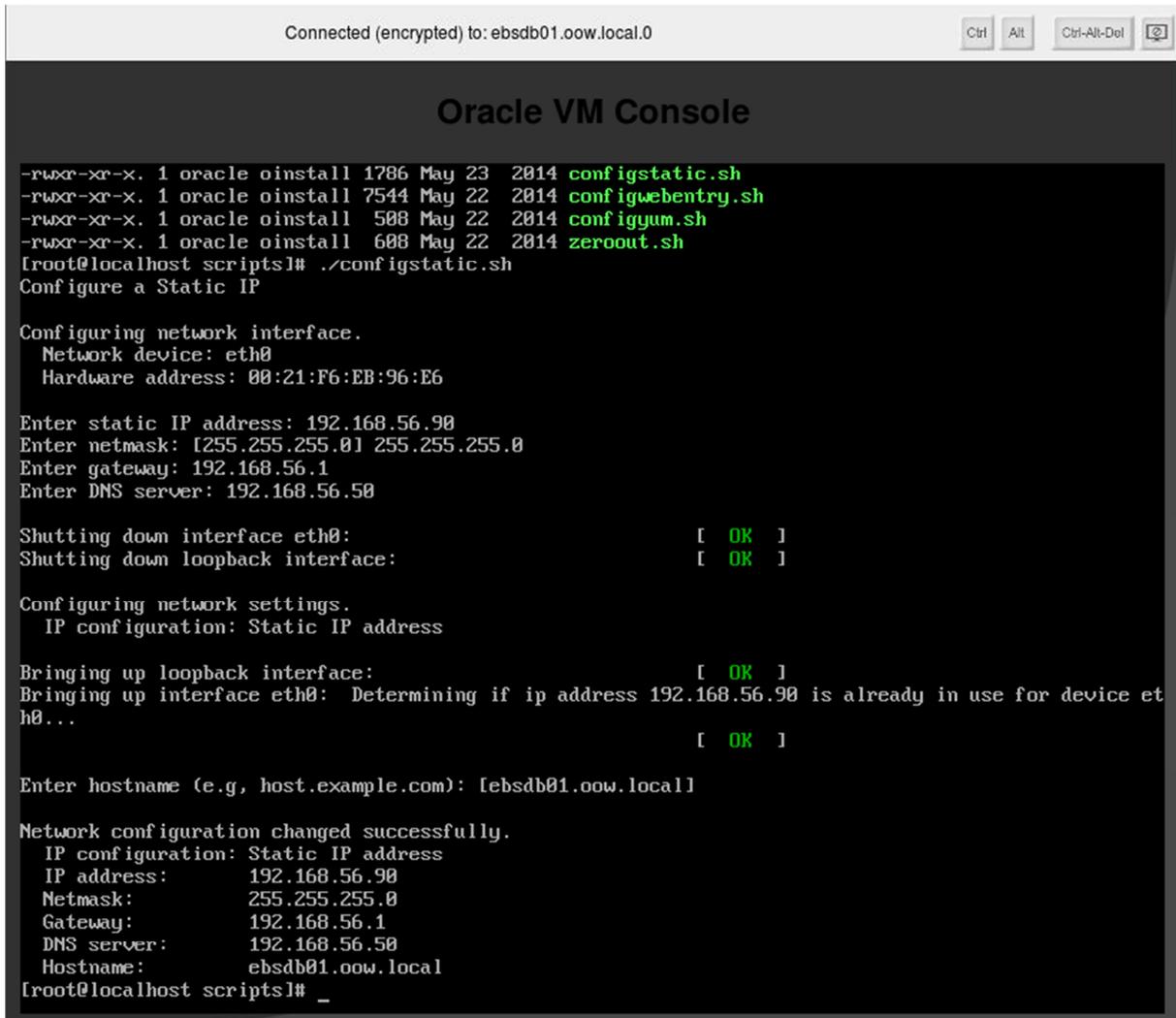


Figure 3.1.5

Proceed with “**ebsdb01.oow.local**” Oracle eBusiness Suite Database-Tier configuration with the following steps (Figure 3.1.6):

- Change directory to “/u01/install/PROD/scripts”
`cd /u01/install/PROD/scripts`
- Execute command “**proddbconfig.sh**” to proceed with the database configuration:
 - `./proddbconfig.sh`
 - Enter the Oracle Database SID: **OOW2015**

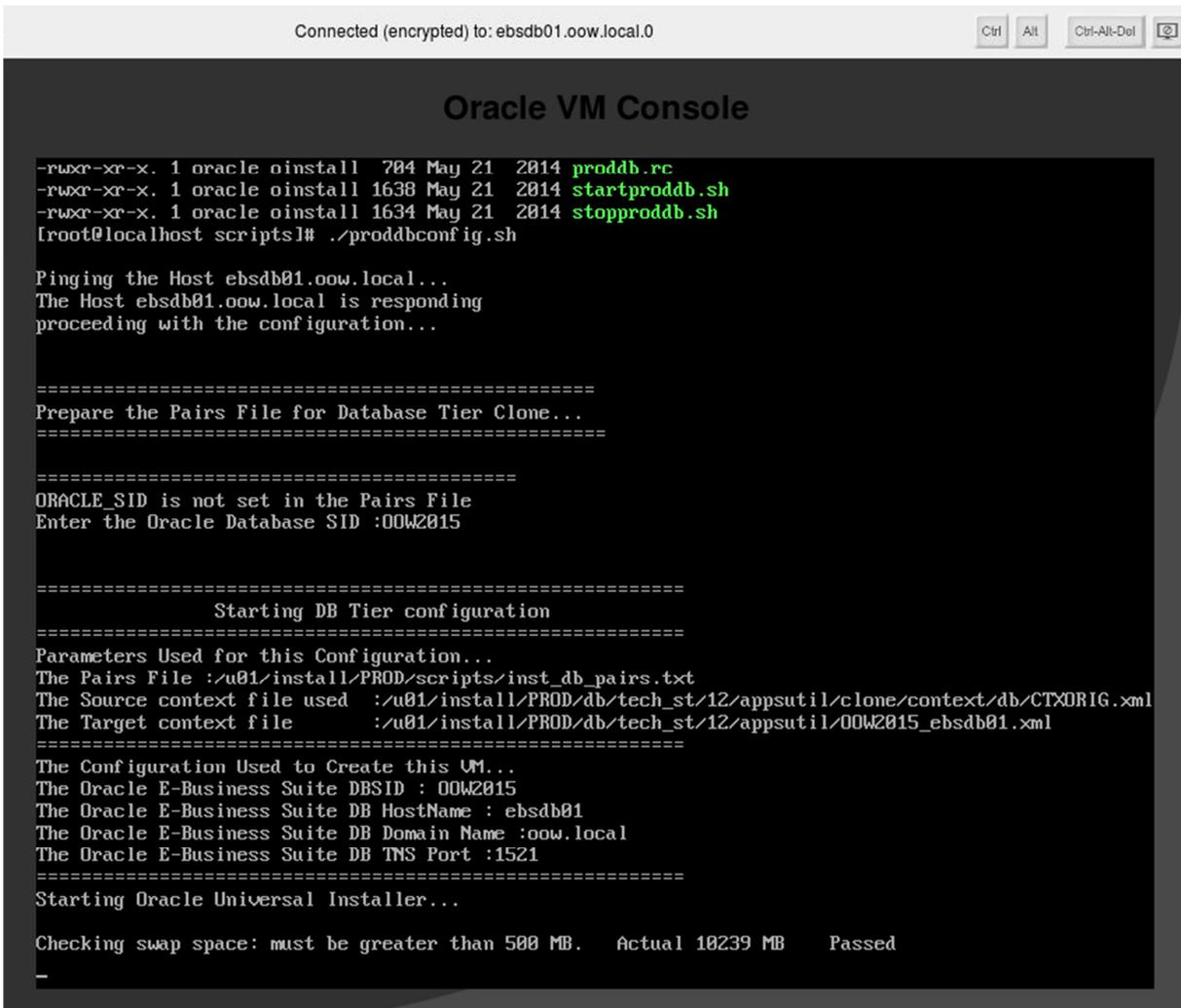


Figure 3.1.6

The “**Rapid Clone Wizard**” will proceed to the database configuration (Figure 3.1.7):

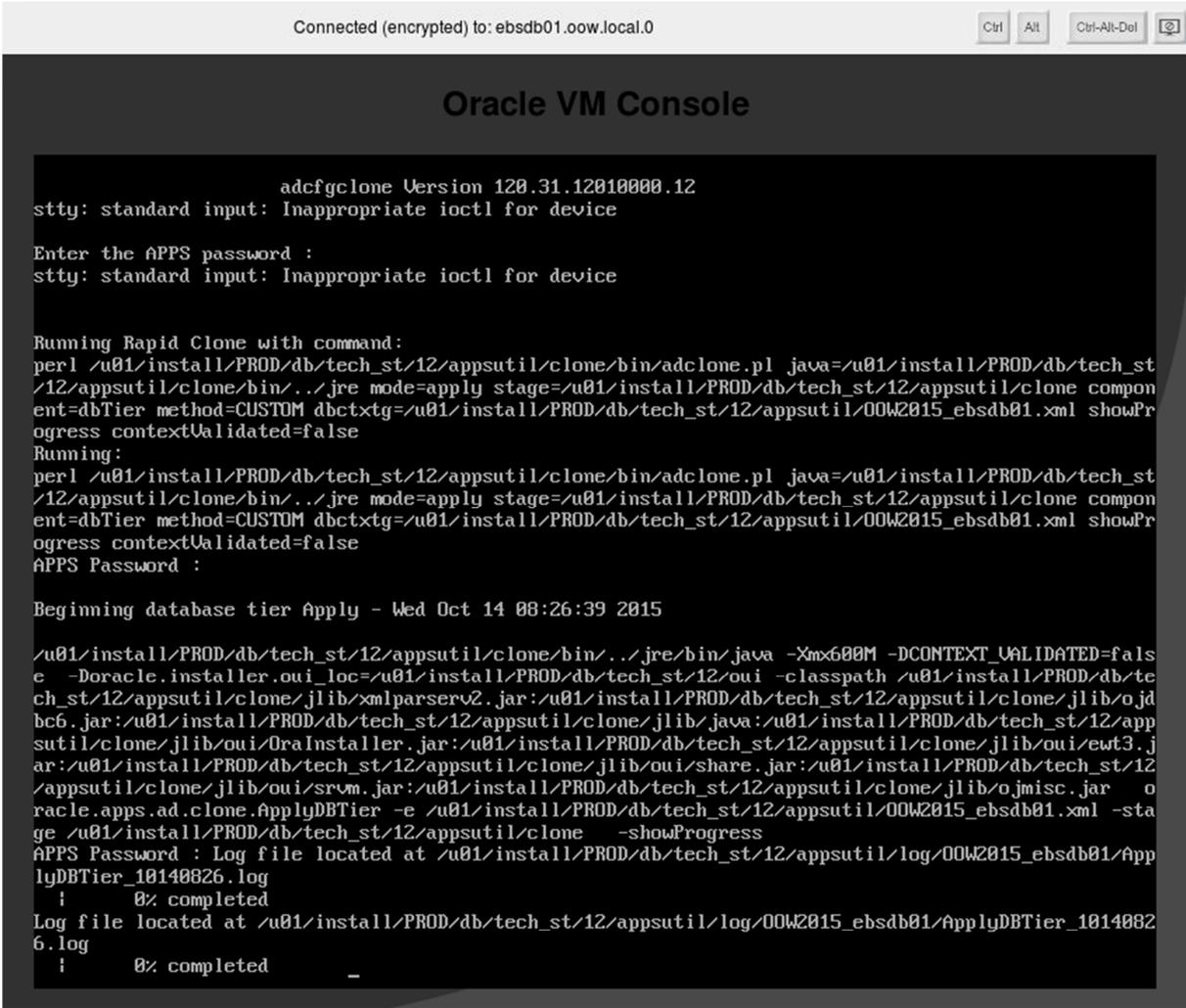


Figure 3.1.7

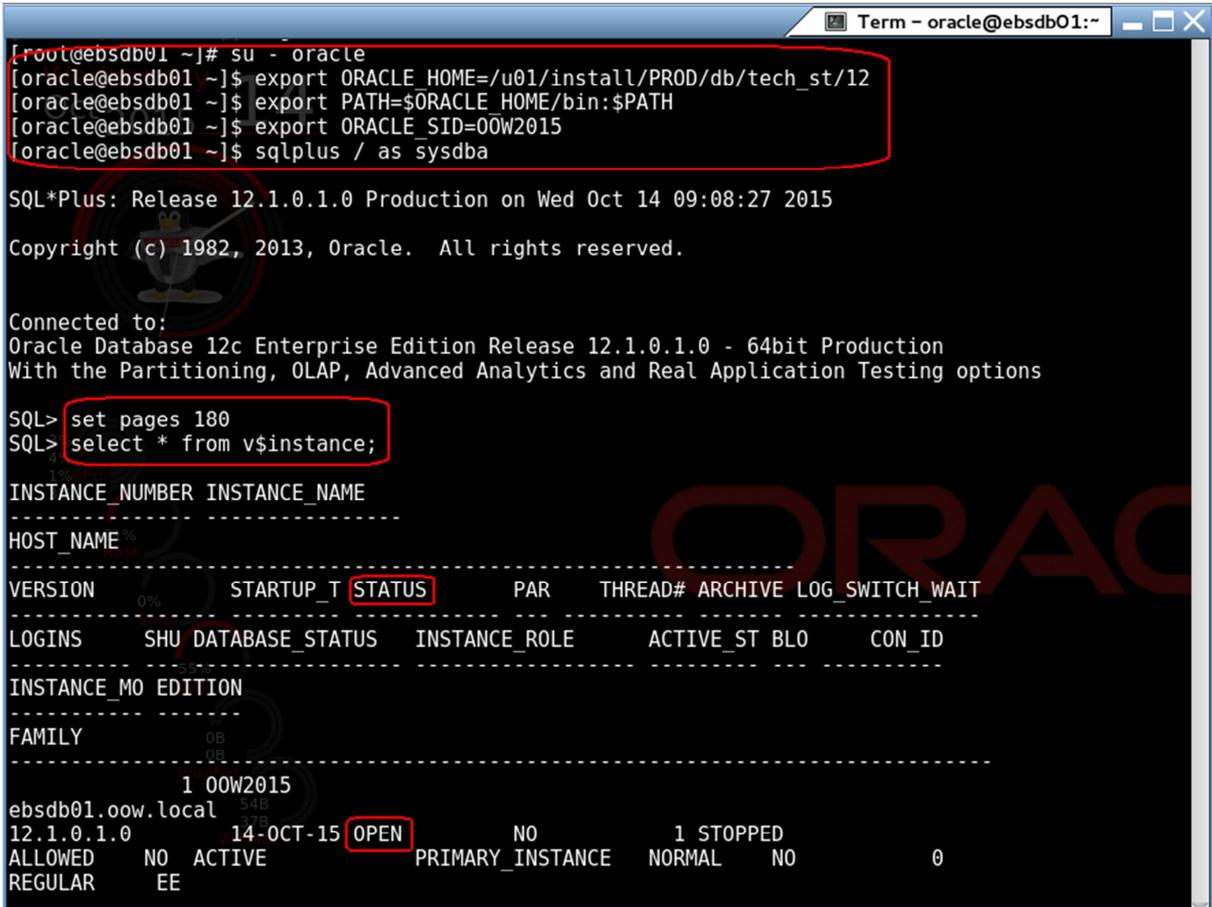
Once completed a window asking for “root”, “oracle” and “applmgr” password; after that an output similar to the following one may appear (Figure 3.1.8):



Figure 3.1.8

Now you should be able to directly connect to the VM “**ebsdb01.oow.local**” and verify that Oracle Database 12.1.0.1 is active; proceed with following steps (Figure 3.1.9):

- ssh on ebsdb01.oow.local (credential root/ovsroot)
ssh root@192.168.56.90
- Change user to “oracle”
su - oracle
- Export following env parameters:
export ORACLE_HOME=/u01/install/PROD/db/tech_st/12
export PATH=\$ORACLE_HOME/bin:\$PATH
export ORACLE_SID=OOW2015
- Connect “as sysdba” to the database:
sqlplus / as sysdba
- Execute the following statement to verify that Oracle Instance is opened:
set lines 180
select * from v\$instance;



```

[oracle@ebsdb01 ~]$ su - oracle
[oracle@ebsdb01 ~]$ export ORACLE_HOME=/u01/install/PROD/db/tech_st/12
[oracle@ebsdb01 ~]$ export PATH=$ORACLE_HOME/bin:$PATH
[oracle@ebsdb01 ~]$ export ORACLE_SID=OOW2015
[oracle@ebsdb01 ~]$ sqlplus / as sysdba

SQL*Plus: Release 12.1.0.1.0 Production on Wed Oct 14 09:08:27 2015
Copyright (c) 1982, 2013, Oracle. All rights reserved.

Connected to:
Oracle Database 12c Enterprise Edition Release 12.1.0.1.0 - 64bit Production
With the Partitioning, OLAP, Advanced Analytics and Real Application Testing options

SQL> set pages 180
SQL> select * from v$instance;

INSTANCE_NUMBER INSTANCE_NAME
-----
HOST_NAME
-----
VERSION          STARTUP_T STATUS  PAR  THREAD# ARCHIVE LOG_SWITCH_WAIT
-----
LOGINS           SHU DATABASE_STATUS  INSTANCE_ROLE  ACTIVE_ST BLO  CON_ID
-----
INSTANCE_MO EDITION
-----
FAMILY
-----
1 OOW2015
ebsdb01.oow.local
12.1.0.1.0      14-OCT-15 OPEN    NO    1 STOPPED
ALLOWED NO ACTIVE PRIMARY_INSTANCE NORMAL NO 0
REGULAR EE
  
```

Figure 3.1.9

3.2 START AND CONFIGURE APPLICATION-TIER VM

In “Oracle VM Manager” BUI choose VM named “**ewsapp01.oow.local**” and edit it (Figure 3.2.1):

- Click the **Servers and VMs** tab
- Click physical server “**ovs10472.oow.local**”
- Select Perspective “**Virtual Machines**”
- Select VM “**ewsapp01.oow.local**” and button “**Edit**”

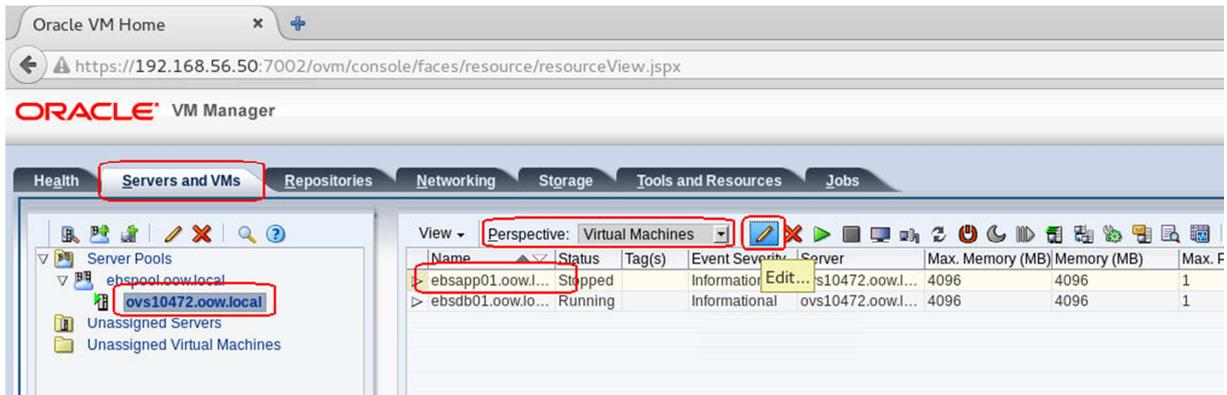


Figure 3.2.1

We need to associate vNIC to a specific network-type before starting it; in the “**Edit VM**” section (Figure 3.2.2):

- Click “**Network**” tab
- Under “**Slot 0**” choose Network named “**guest-network-public**” and confirm with “**OK**”

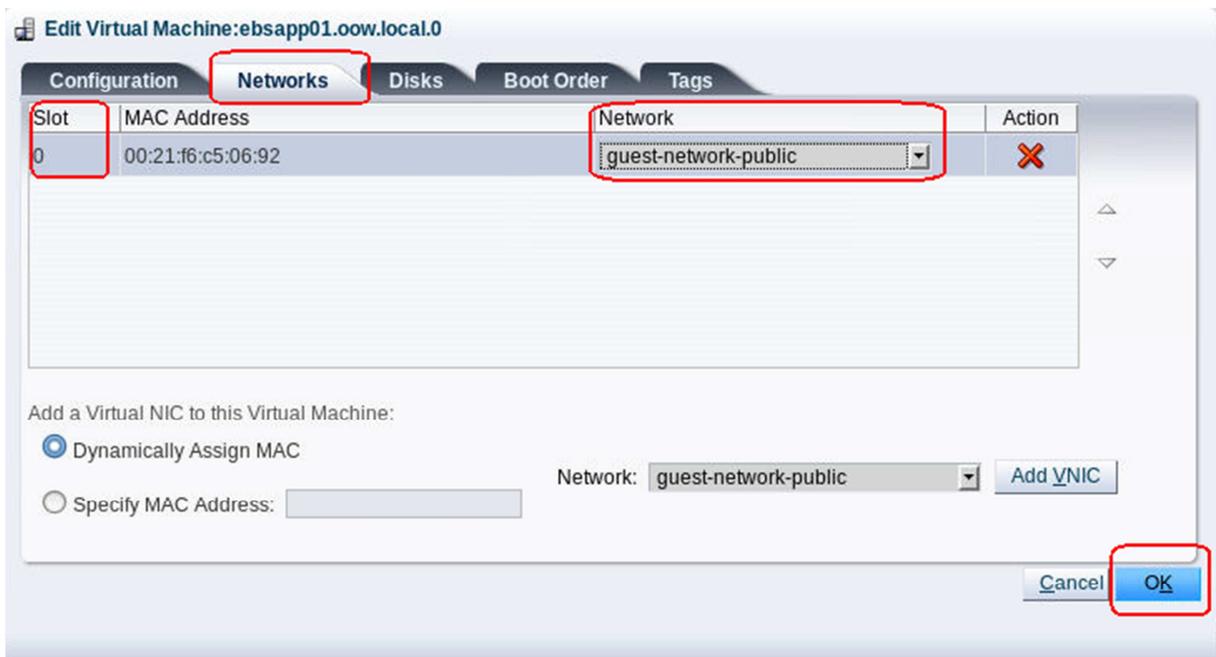


Figure 3.2.2

In “Oracle VM Manager” BUI choose VM named “**ewsapp01.oow.local**” and start it (Figure 3.2.3):

- Click the **Servers and VMs** tab
- Click physical server “**ovs10472.oow.local**”
- Select Perspective “**Virtual Machines**”
- Select VM “**ewsapp01.oow.local**” and button “**Start**”



Figure 3.2.3

Once VM is started, open the console of this VM (Figure 3.2.4):

- Click the **Servers and VMs** tab
- Click physical server “**ovs10472.oow.local**”
- Select Perspective “**Virtual Machines**”
- Select VM “**ewsapp01.oow.local**” and button “**Launch Console**”

NB: a pop-up blocker could intercept the console so you should need to accept pop-ups from this website

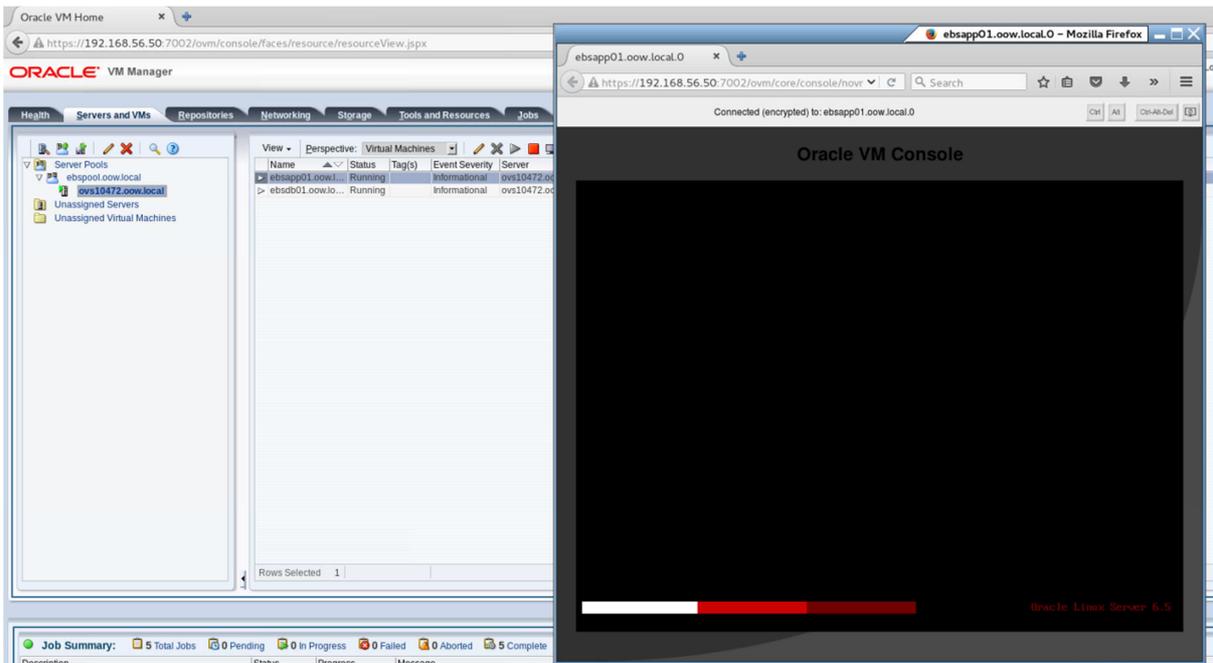


Figure 3.2.4

By the console opened, once the prompt is ready, authenticate with “root” and the template will ask for new password for users like “root”, “oracle” and “applmgr” (you have to insert new passwords twice for each user).

Defaults used in this HOL are:

```
root / ovsroot
oracle / oracle
applmgr / applmgr
```

At the step asking for Database-Tier information, use following datas (Figure 3.2.5):

- Enter the IP Address of the Database Tier Host: **192.168.56.90**
- Enter the Database Tier Hostname without the domain: **ebsdb01**
- Enter the Database Tier domain name: **oow.local**

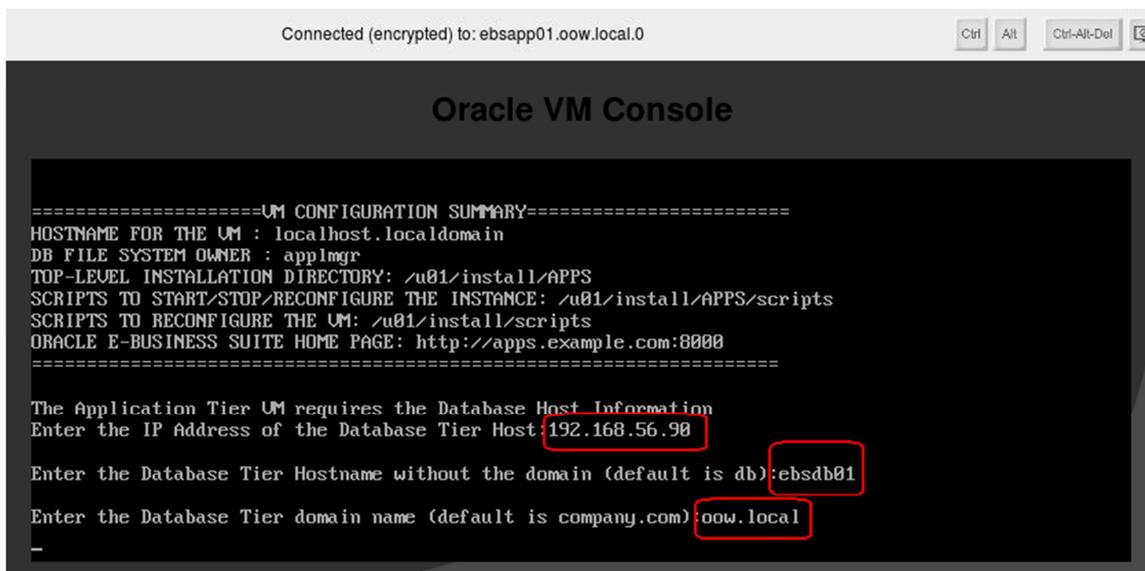


Figure 3.2.5

Now the configuration will proceed to create and execute a complete “AutoConfig” on the application-tier system; once completed you’ll have to confirm the creation of a Linux Service dedicated to start Application-Tier processes while booting the VM (Figure 3.2.6):

- Enter your response (APPS/NONE): **APPS**

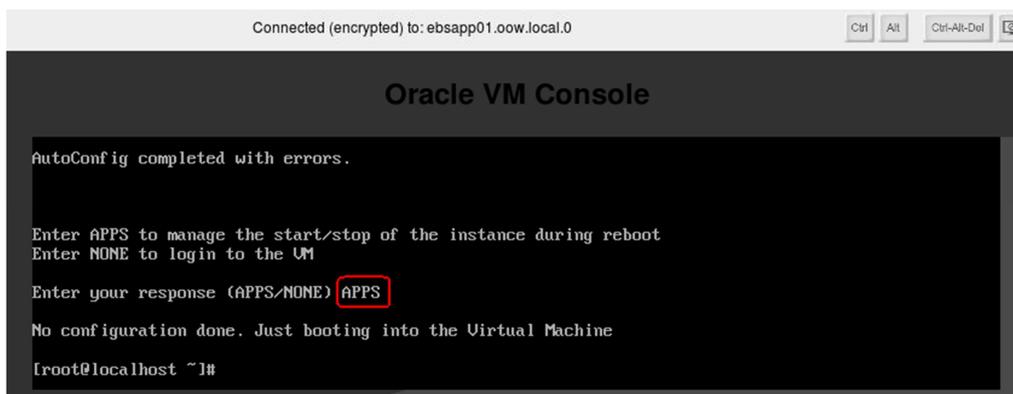


Figure 3.2.6

Proceed with “**ebsapp01.oow.local**” network configuration with the following steps:

- `cd /u01/install/scripts`
- `./configstatic.sh`

Here the details to insert into the network configuration phase (Figure 3.2.5):

- Enter static IP address: **192.168.56.80**
- Enter netmask: **255.255.255.0**
- Enter gateway: **192.168.56.1**
- Enter DNS server: **192.168.56.50**
- Enter Hostname: **ebsapp01.oow.local** (*correct name should be proposed*)

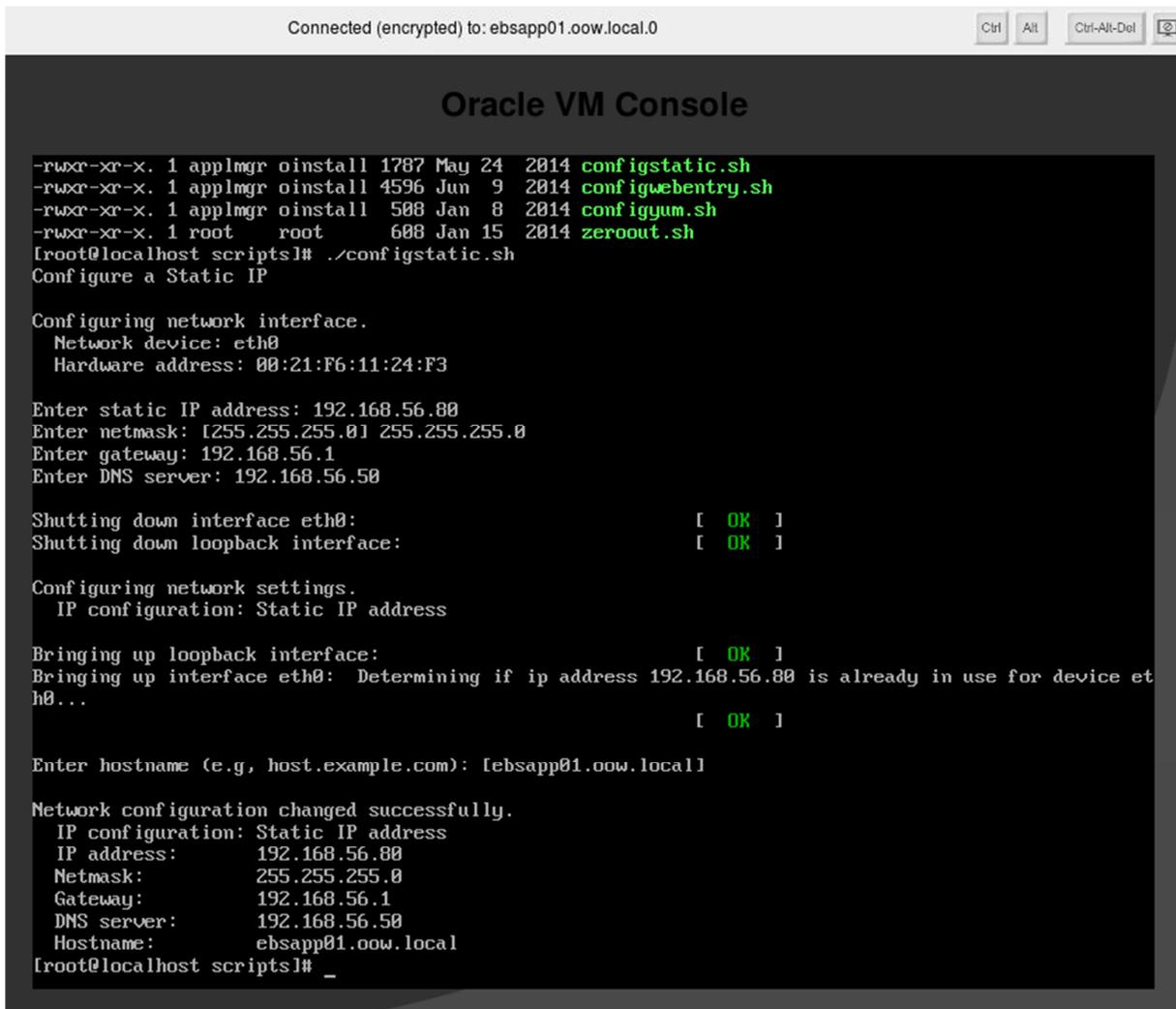


Figure 3.2.5

Proceed with “**ebsapp01.oow.local**” Oracle eBusiness Suite Application-Tier configuration with the following steps (Figure 3.2.6):

- Change directory to “**/u01/install/APPS/scripts**”
`cd /u01/install/APPS/scripts`



- Execute command “**appsconfig.sh**” to proceed with the database configuration:
 ./appsconfig.sh
 - Press any key to continue...: **<ENTER>**
 - Enter the IP Address of the DB Tier Host: **192.168.56.90**
 - Enter the Database Tier Host Name (without the domain): **ebsdb01**
 - Enter the Database Tier Domain Name: **oow.local**
 - Enter the Oracle Database Sid: **OOW2015**
 - Enter the TNS Listener Port Number: **1521**

```
Connected (encrypted) to: ebsapp01.oow.local.0  Ctrl  Alt  Ctrl-Alt-Del  [?]

Oracle VM Console

=====
Checking if the FQDN is > 30 chars...
=====

The FQDN is less than 30 characters. Proceeding with the configuration
Database Tier Information is not set in the Pairs File
Prompting the user for Database Tier Information

Enter the IP Address of the DB Tier Host: 192.168.56.90
Enter the Database Tier Host Name (without the domain) : ebsdb01
Enter the Database Tier Domain Name : oow.local
Enter the Oracle Database SID : OOW2015
Enter the TNS Listener Port Number : 1521

Updating /etc/hosts file with DB Tier Information

=====
Starting Apps Tier configuration
=====
Parameters Used for this Configuration...
The Pairs File :/u01/install/APPS/scripts/inst_apps_pairs.txt
The Source context file used :/u01/install/APPS/apps/apps_st/comm/clone/context/apps/CTXDRIG.xml
The Target context file :/u01/install/APPS/inst/apps/OOW2015_ebsapp01/appl/admin/OOW2015_ebsapp01.xml
```

Figure 3.2.6

At the end of the procedure, you'll have to re-insert passwords for “**root**”, “**oracle**” and “**applmgr**” accounts; at the end you'll see an “**INSTALLATION SUMMARY**” (Figure 3.2.7):

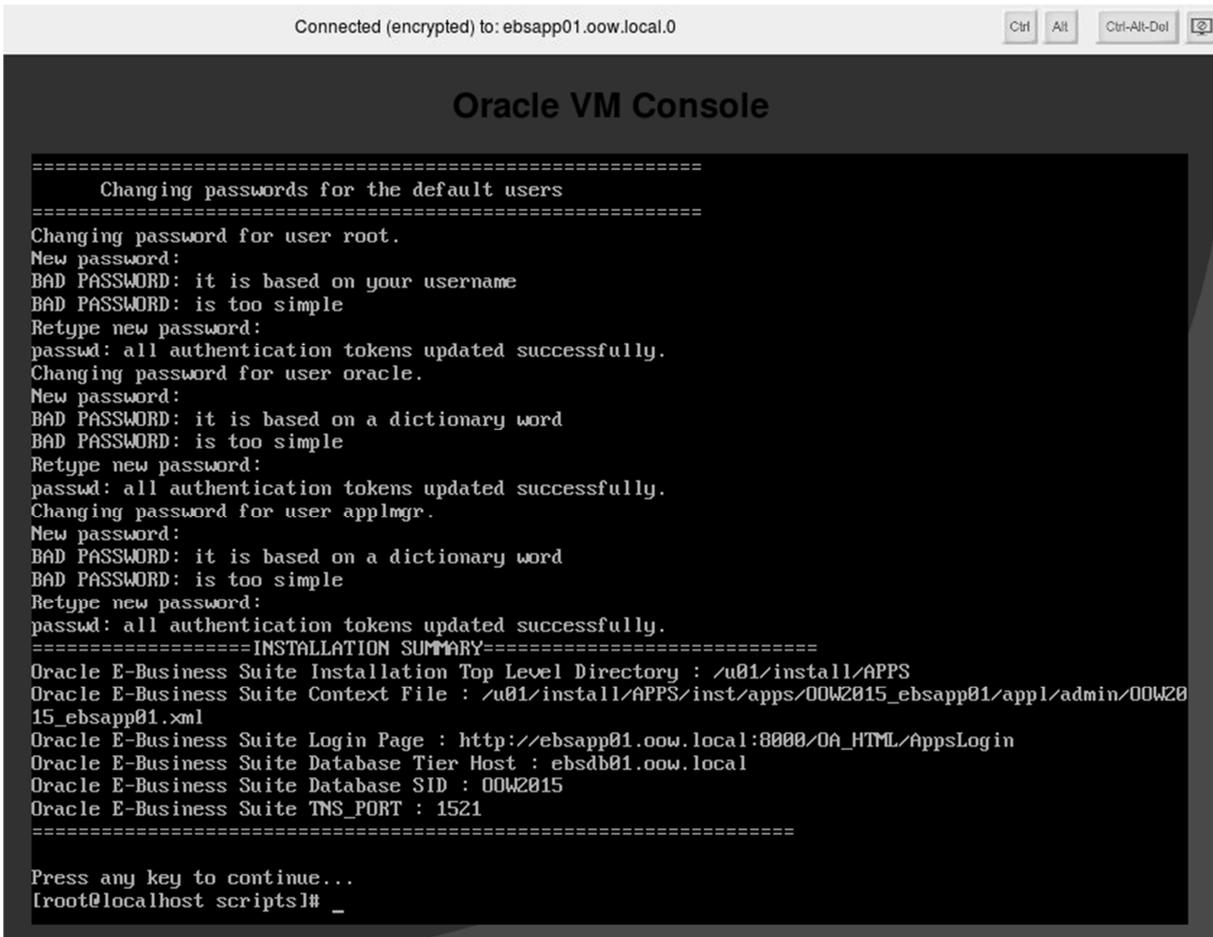


Figure 3.2.7

Now you should be able to directly connect to the VM “**ebsdb01.oow.local**” and verify that Oracle eBusiness Suite 12.1.3 is active; proceed with following steps (Figure 3.2.8):

- ssh on ebsapp01.oow.local (credential root/ovsroot)
ssh root@192.168.56.80
- Change user to “**applmgr**”
su – applmgr
- Execute the following “Env” script:
./u01/install/APPS/apps/apps_st/appl/APPSOOW2015_ebsapp01.env
- Change directory to “**\$INST_TOP/admin/scripts**”
cd \$INST_TOP/admin/scripts
- Verify that all web-services (apache and OC4J) are active:
./adopmctl.sh status



```

Term - applmgr@ebsapp01:/u01/install/APPS/inst/app
[root@ebsapp01 ~]# su - applmgr
[applmgr@ebsapp01 ~]$ ./u01/install/APPS/apps/apps_st/appl/APPS00W2015_ebsapp01.env
[applmgr@ebsapp01 ~]$ cd $INST_TOP/admin/scripts
[applmgr@ebsapp01 scripts]$ ./adopmnctl.sh status

You are running adopmnctl.sh version 120.6.12010000.5
Checking status of OPMN managed processes...

Processes in Instance: 00W2015_ebsapp01.ebsapp01.oow.local
-----
ias-component | process-type | pid | status
-----
OC4JGroup:default_group | OC4J:oaafm | 14619 | Alive
OC4JGroup:default_group | OC4J:forms | 14552 | Alive
OC4JGroup:default_group | OC4J:oaacore | 14408 | Alive
HTTP_Server | HTTP_Server | 14353 | Alive

adopmnctl.sh: exiting with status 0
adopmnctl.sh: check the logfile /u01/install/APPS/inst/apps/00W2015_ebsapp01/logs/appl/admin/log/adopmnctl.txt for more information ...
[applmgr@ebsapp01 scripts]$

```

Figure 3.2.8

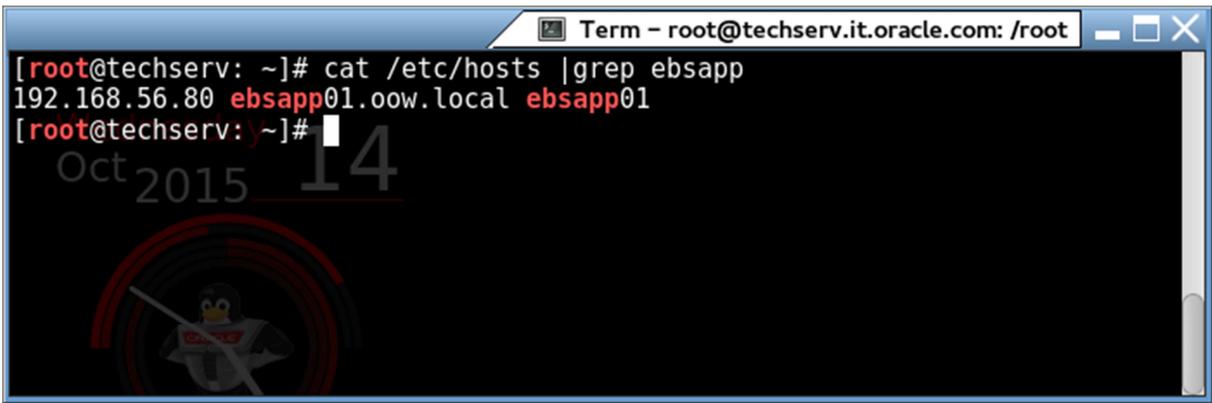
3.3 CONNECT TO EBUSINESS SUITE AND TEST ITS FUNCTIONALITIES

Target of this chapter is to verify Oracle eBusiness Suite 12.1.3 base functionalities:

- Open Oracle eBusiness Suite 12.1.3 URL
- Login to the Oracle eBusiness Suite HomePage
- Open “Requests” section to submit a job
- Verify “Log” and “Output” of the job submitted / executed

On your laptop verify that “/etc/hosts” contains an entry to reach “ebsapp01.oow.local”:

- **cat /etc/hosts**



If not present, insert following entry into the file “/etc/hosts” (need “root” access on the laptop):

- **192.168.56.80 ebsapp01.oow.local ebsapp01**

On your laptop open the browser (Firefox) and connect to the eBusiness Suite URL:

- **http://ebsapp01.oow.local:8000**

A login prompt (Figure 3.3.1) should appear (first opening could take some seconds):



Figure 3.3.1



Login with :

- User: **sysadmin**
- Password: **sysadmin**

Oracle eBusiness Suite Home Page should appear (Figure 3.3.2):

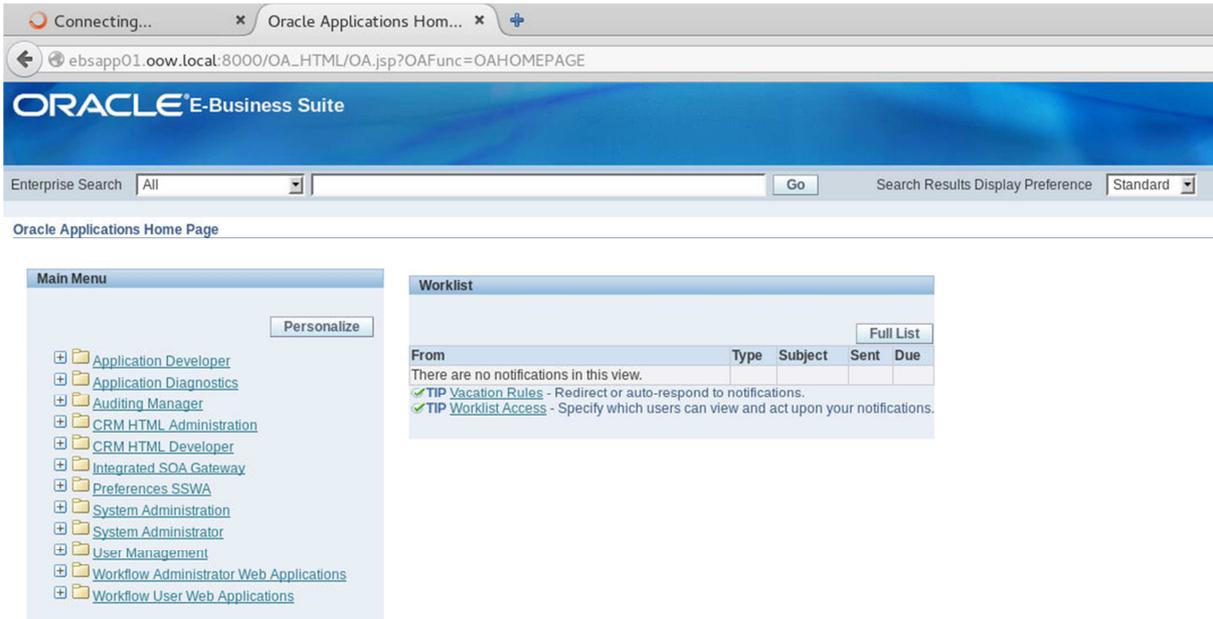


Figure 3.3.2

Following Steps will guide you to create a simple report named “Active Users” by the execution of a concurrent-request:

- Expand “**System Administrator**”, “**Concurrent**” and choose “**Requests**” (Figure 3.3.3)

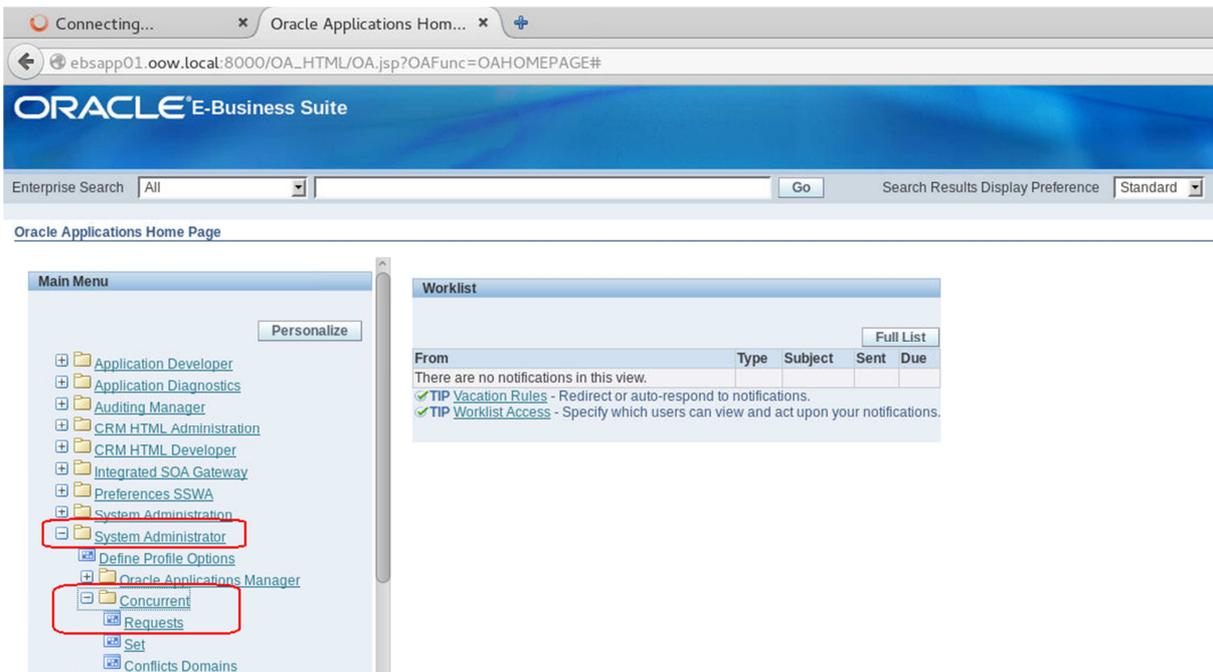


Figure 3.3.3

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- Confirm(two times) java warnings with “**YES**” (Figure 3.3.4)

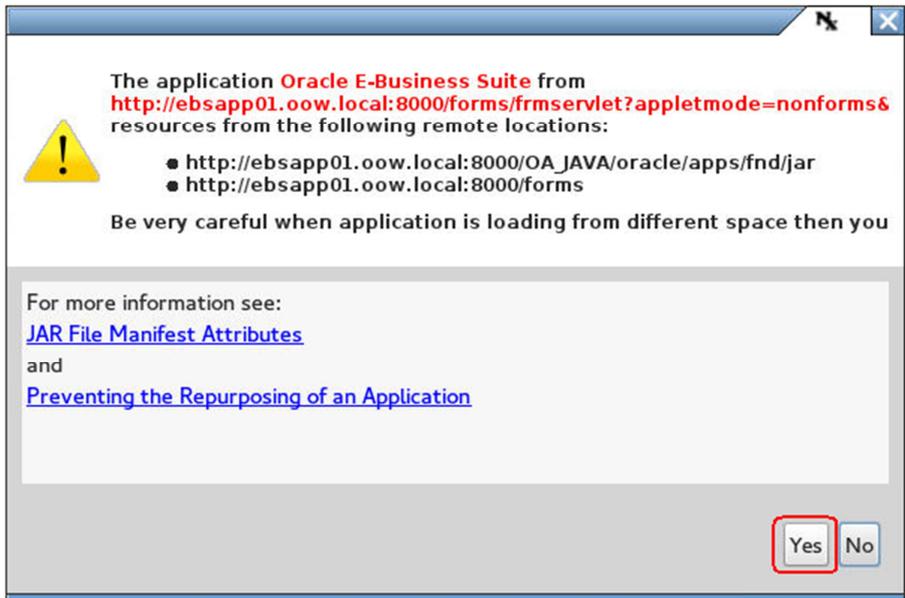


Figure 3.3.4

- On the new window opened choose “**Submit a New Request...**” (Figure 3.3.5)

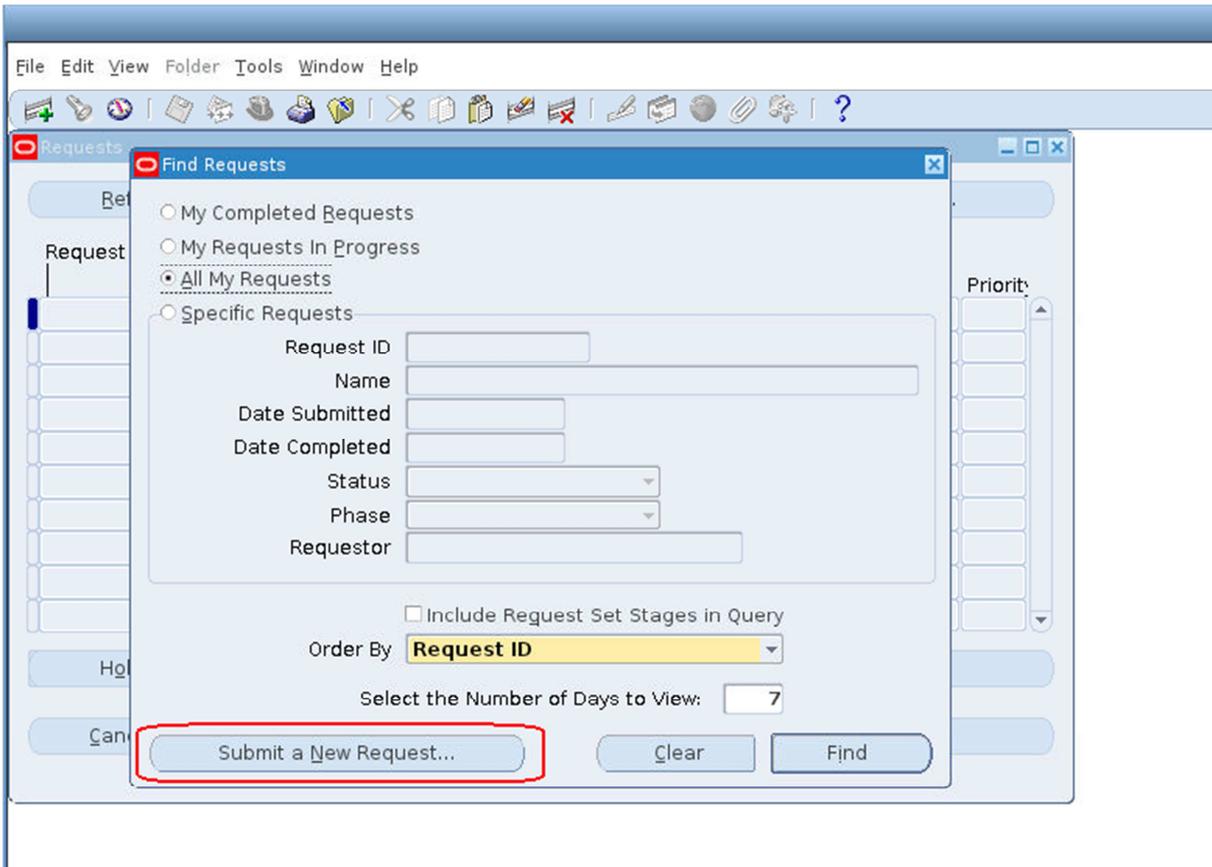


Figure 3.3.5



- Choose “**Single Request**” and confirm with “**OK**” (Figure 3.3.6)

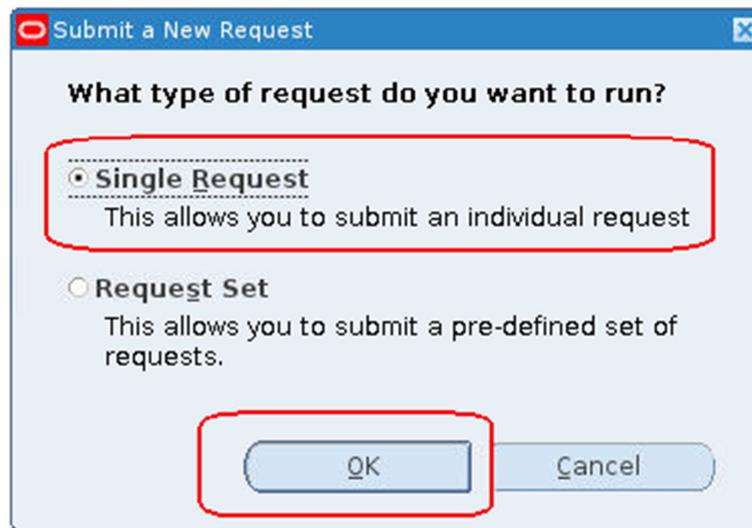


Figure 3.3.6

- As “**Request Name**” insert “**Active Users**” and click “**Submit**” to confirm (Figure 3.3.7)
NB:
 - A further window will open and you have to confirm with “**OK**” also there
 - Another window will open asking to submit another request, respond with “**NO**”

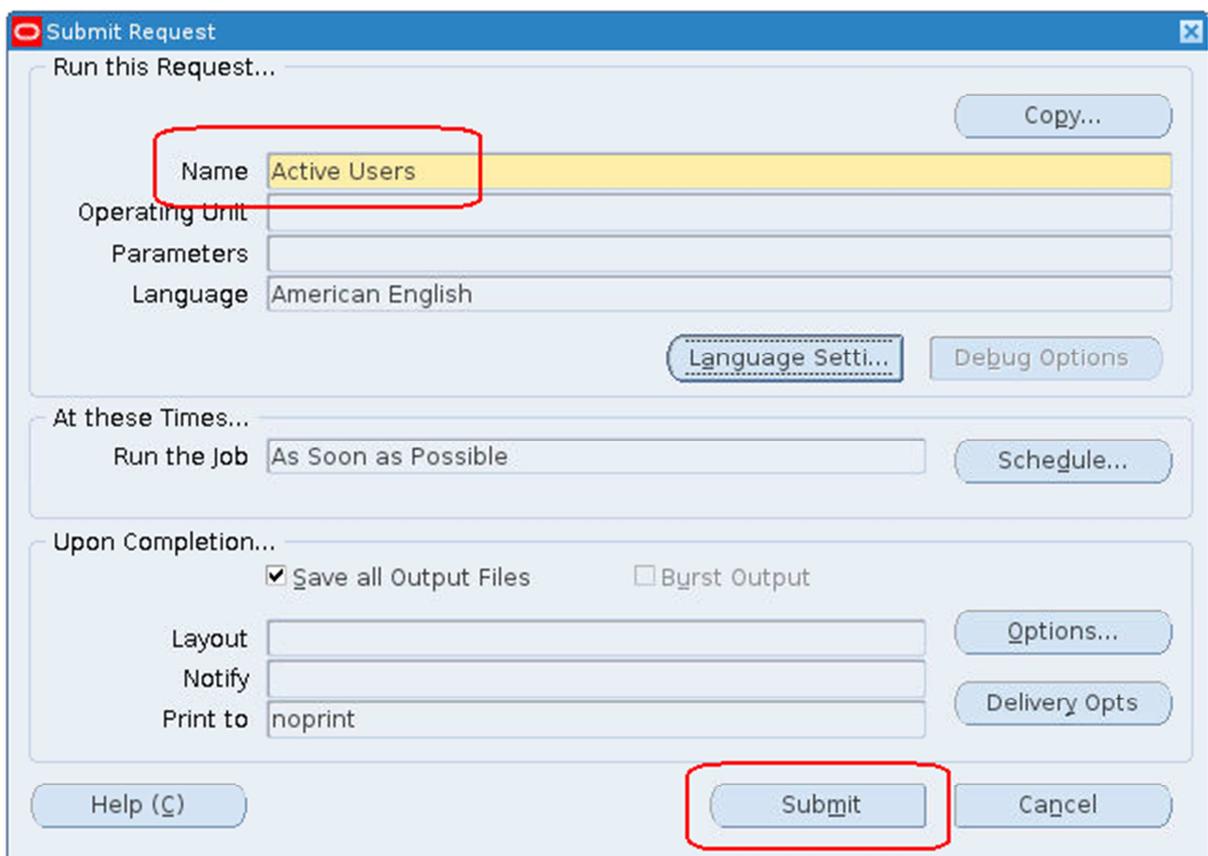


Figure 3.3.7

- On the “Find Request” window search for “All My Requests” (Figure 3.3.8)

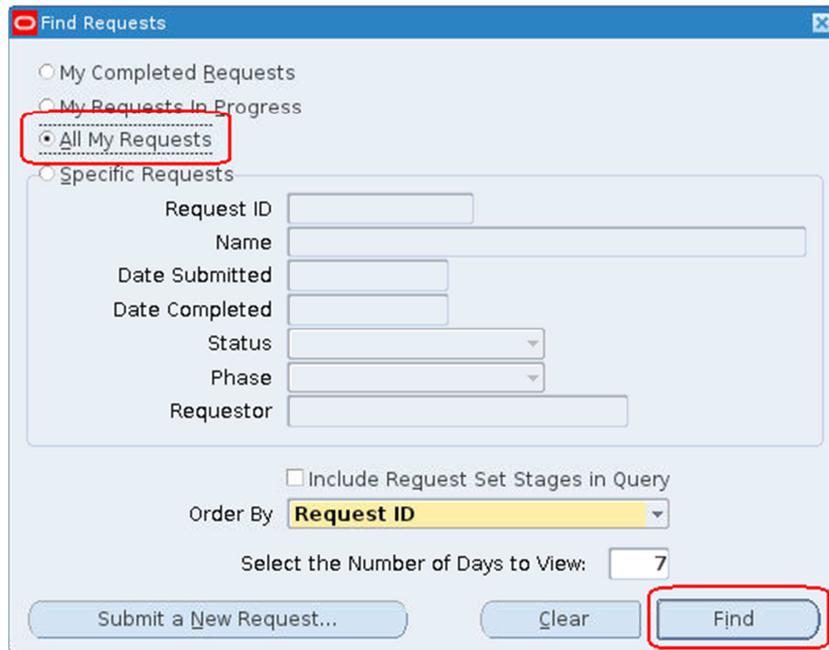


Figure 3.3.8

- Select the line containing your request “Active Users” and verify output and log file by using “View Output” and “View Log...” buttons (Figure 3.3.9)

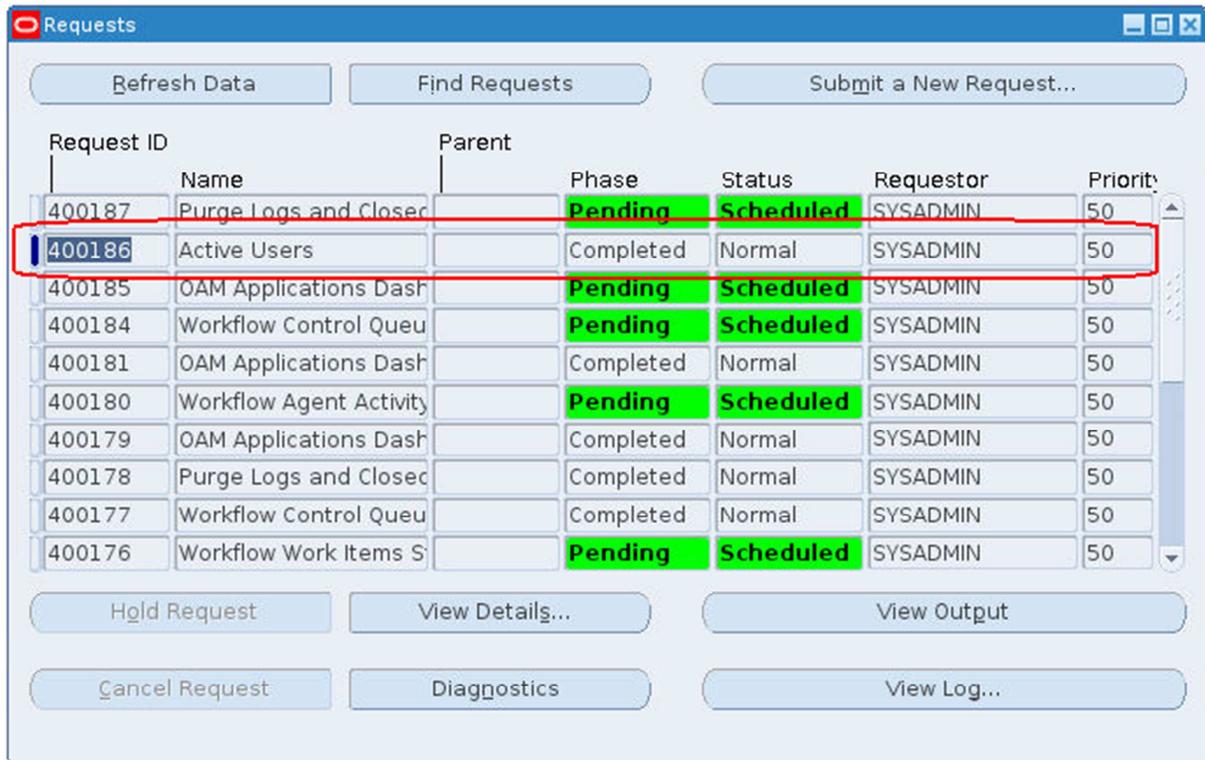


Figure 3.3.9

**Congratulations,**

You are now at the end of this HOL session.

As you can see you are pretty much at the limit of what we can achieve with a "small" laptop.. Because of several laptop resources limitation (CPU, disk access and network bandwidth) the Oracle eBusiness Suite 12.1.3 deployment should take more than 50 minutes and you should not be able to see the end of the deployment during this session.

4 REFERENCES:

4.1 ORACLE VM 3.3 DOCUMENTATION

http://docs.oracle.com/cd/E50245_01/

Oracle VM 3.3

Oracle VM Release 3.3 Documentation

Oracle VM Release Notes for 3.3.1	ePub	HTML	PDF
Oracle VM Release Notes for 3.3.2	ePub	HTML	PDF
Oracle VM Release Notes for 3.3.3	ePub	HTML	PDF
Oracle VM Installation and Upgrade Guide for Release 3.3	ePub	HTML	PDF
Oracle VM Manager Getting Started Guide for Release 3.3	ePub	HTML	PDF
Oracle VM Concepts Guide for Release 3.3	ePub	HTML	PDF
Oracle VM Manager User's Guide for Release 3.3	ePub	HTML	PDF
Oracle VM Administrator's Guide for Release 3.3	ePub	HTML	PDF
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Oracle VM Web Services API Developer's Guide for Release 3.3	ePub	HTML	PDF
Oracle VM Security Guide for Release 3.3	ePub	HTML	PDF
Oracle VM Paravirtual Drivers Installation Guide for Microsoft Windows for Release 3.2.3	ePub	HTML	PDF
Oracle VM Third-Party Licensing Information for Release 3.3	ePub	HTML	PDF

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4.2 EBS ORACLE VM TEMPLATE DOCUMENTATION

https://blogs.oracle.com/stevenChan/entry/e_business_suite_virtual_machines

Oracle E-Business Suite Technology
The latest news directly from E-Business Suite Development

« [November 2014 Update...](#) | [Main](#) | [JRE Support Ends...](#) »

EBS VMs: Appliances, Templates, and Assemblies Explained

By moyes-Oracle on Dec 02, 2014

This article describes the different types of Oracle E-Business Suite virtual machine software packages available, and how they are appropriate for different situations.

The appliances, templates, and assemblies provided on the Oracle Software Delivery Cloud (<https://edelivery.oracle.com/linux>) all contain virtual machine images. These are intended for different purposes, but all allow you to install EBS rapidly and create an EBS virtual machine.

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Oracle Software Delivery Cloud - Oracle Linux and Oracle VM

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- BPEL 11.1.1.9 Certified for Prebuilt EBS 12.1 and 12.2 SOA Integrations
- E-Business Suite Technology Sessions at OpenWorld 2015
- WebCenter Portal 11.1.1.9 Certified with E-Business Suite 12.1



Virtual Appliances

	Single Node	Multi-Node	MOS Doc ID
Oracle VM Virtual Appliances for Oracle E-Business Suite 12.2.4	VIS	PROD, VIS	1928303.1
Oracle VM Virtual Appliances for Oracle E-Business Suite 12.2.3	VIS	PROD, VIS	1620448.1
Oracle VM Virtual Appliances for Oracle E-Business Suite 12.1.3	VIS	PROD, VIS	1906691.1

VM Templates

	Single Node	Multi-Node	MOS Doc ID
Oracle VM Templates for Oracle E-Business Suite 12.2.3 for Exalogic	n/a	PROD, VIS	1633952.1
Oracle VM Templates for Oracle E-Business Suite 12.2.2	n/a	PROD, VIS	1590941.1
Oracle VM Templates for Oracle E-Business Suite 12.1.3 for Exalogic	n/a	VIS	1499132.1

Virtual Assemblies

	Single Node	Multi-Node	MOS Doc ID
Oracle Virtual Assemblies for Oracle E-Business Suite 12.2.3	PROD	PROD	1904928.1
Oracle Virtual Assemblies for Oracle E-Business Suite 12.1.3	PROD	PROD	1904928.1

DEPLOYMENT ARCHITECTURE

The following diagram shows the Oracle VM architecture with deployed Oracle E-Business Suite appliances. In this example, both Oracle E-Business Suite appliances are deployed in a single server pool on a single Oracle VM server, but other server pool configurations are possible. A server pool is an autonomous region that contains one or more Oracle VM Servers.

Sample Oracle VM Architecture with Deployed Oracle E-Business Suite appliances (Figure 4.2.1)

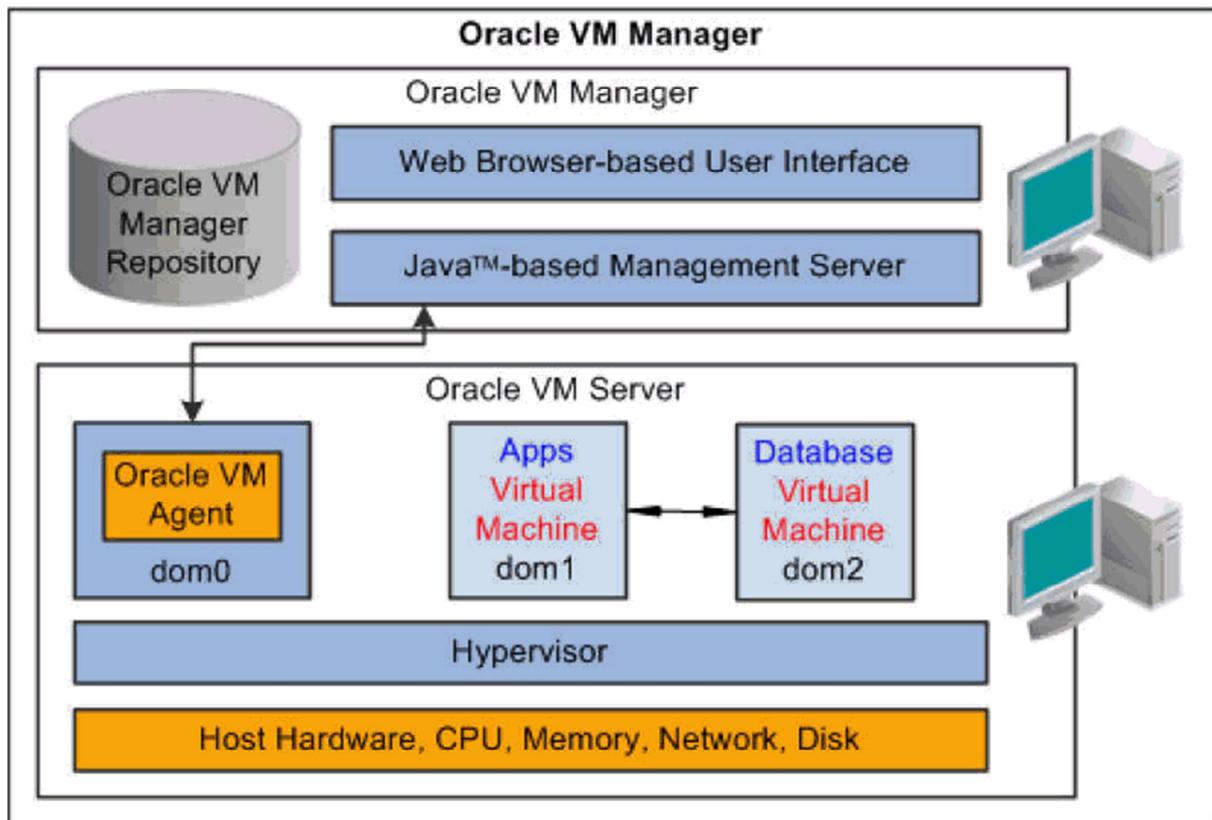


Figure 4.2.1

The components represented in the above diagram are described below:

•**Oracle VM Manager**

The Oracle VM Manager is a web application that provides the user interface to manage Oracle VM Server, virtual machines, and resources.

•**Oracle VM Server**

The Oracle VM Server is a self-contained virtualization environment designed to provide a lightweight, secure, server-based platform to run virtual machines. Oracle VM Server is based on an updated version of the underlying Xen hypervisor technology, and includes Oracle VM Agent.

•**Oracle VM Agent**

The Oracle VM Agent is installed with Oracle VM Server. It communicates with Oracle VM Manager to manage virtual machines.

•**dom0**

This is an abbreviation for domain zero, which is the management domain with privileged access.

•**domU**



Each domU (dom1, dom2) is an unprivileged Oracle VM domain with no direct access to the hardware or device drivers. Each domU is started by Oracle VM Server (which itself is in dom0). In this example, each domain holds a single Oracle E-Business Suite virtual machine.

Before deploying the Oracle E-Business Suite appliance, you need to decide upon the deployment architecture. Instead of deploying the database tier appliance and the application tier appliance in a single server and pool as described in the above example, you can choose to place the database appliance on one server (and server pool) and the application tier appliance on another. Or, you can distribute the appliances to create virtual machines on different physical servers, and place them in the same server pool. For guidance on designing your system, refer to the Managing Server Pools chapter, Oracle VM User's Guide available in the [Oracle VM Documentation Library](#).

Please note that it is possible to combine a deployed Oracle E-Business Suite appliance with a conventional installation. For example, you can deploy an application tier appliance and connect it to a traditional, non-virtual database instance.

The environment set up by the deployment of the Oracle E-Business Suite Oracle VM virtual appliances can be used as a starting point that can subsequently be enhanced and tuned to fit the requirements of the target system. For more information, refer to [Section 1.2.7: Managing the Virtual Environment Lifecycle](#).

4.3 THIS DOCUMENT

This document can be found on <https://blogs.oracle.com/scoter>