

*Oracle Fusion Middleware 11gR2: Forms,
and Reports (11.1.2.0.0) Certification with
SUSE Linux Enterprise Server 11 SP2
(GM) – x86_64*

<http://www.suse.com>

Table of Contents

Introduction.....	3
Hardware and Software Requirements.....	3
Hardware Requirements.....	3
Software Requirements.....	3
Special Startup Requirements.....	4
Testing Machine information.....	5
Prerequisites.....	7
Oracle Database 11gR2 Installation.....	7
Oracle Internet Directory 10.1.4.0.1 and Patchset 10.1.4.3 Installation.....	8
Java Installation.....	10
Oracle WebLogic Server Installation.....	11
Installing and Configuring Oracle Forms and Reports 11gR2	16
Oracle Forms and Reports 11gR2 Post-install Tests	35

Introduction

This documentation provides the details for validate Oracle Fusion Middleware 11gR2: Forms and Reports (11.1.2.0.0) on SLES 11 SP2 OS. Here, x86_64 version of both Oracle Portal...Discoverer Server and SUSE Linux Enterprise Server is used. Similar steps applies to other platforms(x86, ia64, etc.). If you encounter any problem or have general question, please post your query to suse-oracle@listx.novell.com.

(**Note:**The oracle official product documentation available at:

<http://www.oracle.com/technetwork/middleware/docs/middleware-093940.html>)

Hardware and Software Requirements

Hardware Requirements

Requirement	Minimum
RAM	1024 MB
Swap space	Approx. twice the size of RAM
Disk space in /tmp	1024 MB
Disk space for software files	4 GB
Disk space for database files	1.7 GB

Software Requirements

SuSE

- SUSE Linux Enterprise Server 11 Service Pack 2 GM (x86_64)
(<http://download.suse.de/install>)

Oracle

- Oracle Database 11gR2(11.2.0.1.0) (x86_64)
(<http://www.oracle.com/technetwork/database/enterprise-edition/downloads/index.html>)
- Oracle Internet Directory 10.1.4.0.1 and Patchset 10.1.4.3 (x86)
(<http://www.oracle.com/technetwork/middleware/ias/downloads/101401-099957.html>)
Patchset download from: (<https://support.oracle.com>)
- jdk-6u29-linux-x64
(<http://www.oracle.com/technetwork/java/javase/downloads/index.html>)
- WebLogic Server 10.3.5 (Generic installer)
(<http://www.oracle.com/technetwork/middleware/downloads/fmw-11-download-092893.html>)
- Oracle Forms and Reports 11gR2 11.1.2.0.0 (x86_64)
(<http://www.oracle.com/technetwork/developer-tools/forms/downloads/index.html>)

Special Startup Requirements

- Change the value of SHMMAX to 4294967295 by including the following line in /etc/sysctl.conf:

```
kernel.shmmax = 4294967295
```

- Activate the new SHMMAX setting by running the command:

```
/sbin/sysctl -p
```

- Checking the Open File Limit:

```
ulimit -n
```

To change the open file limits, login as root and edit the /etc/security/limits.conf file. Look for the following two lines:

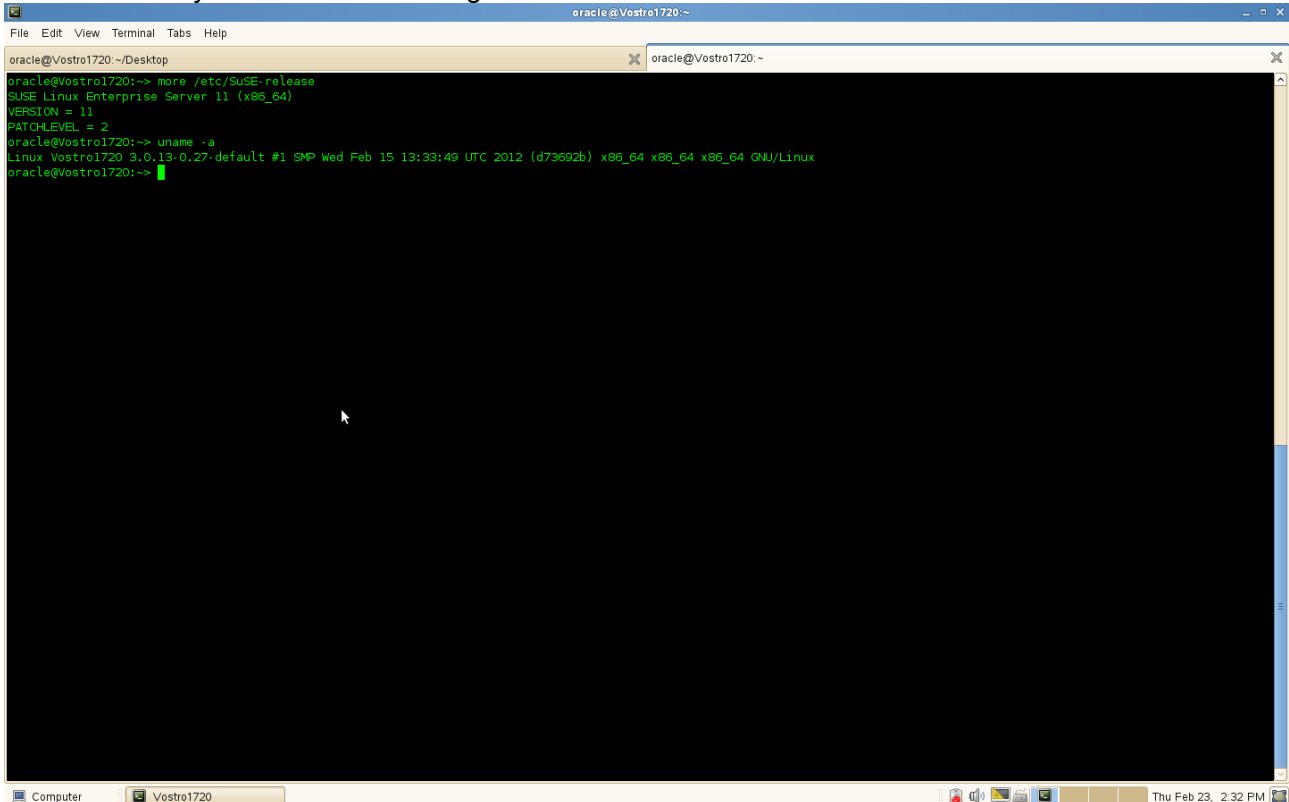
```
* soft nofile 2048  
* hard nofile 2048
```

Change the values from 2048 to 4096, then reboot the machine.

Testing Machine information

Dell Vostro 1720 Laptop
CPU: Intel(R) Core(TM) 2 Duo CPU T5870@2.00GHz
Memory: 4GB
Hard Disk: 160GB
OS: SUSE Linux Enterprise Server 11 SP2 GM(x86_64)
Java: Oracle jdk-6u29-linux-x64
Openmotif Library: openmotif_FUSION_SLES11(x86_64)

Screenshot: System Info from Testing Machine

A screenshot of a terminal window on a Linux system. The terminal shows the following output:

```
oracle@Vostro1720:~/Desktop
oracle@Vostro1720:~$ more /etc/SUSE-release
SUSE Linux Enterprise Server 11 (x86_64)
VERSION = 11
PATCHLEVEL = 2
oracle@Vostro1720:~$ uname -a
Linux Vostro1720 3.0.13-0.27-default #1 SMP Wed Feb 15 13:33:49 UTC 2012 (d73692b) x86_64 x86_64 x86_64 GNU/Linux
oracle@Vostro1720:~$
```

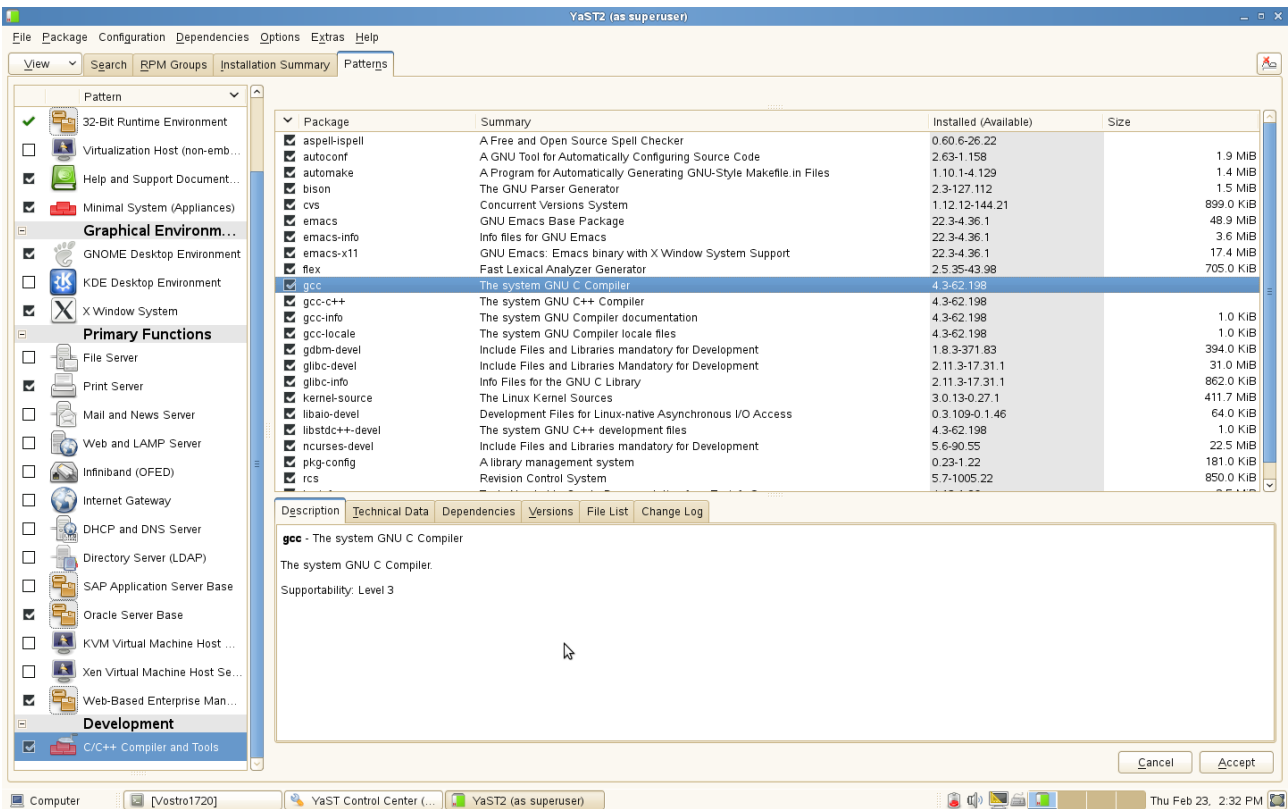
The terminal window is titled "oracle@Vostro1720:~" and has a menu bar with "File", "Edit", "View", "Terminal", "Tabs", and "Help". The desktop environment is visible at the bottom, showing a taskbar with "Computer" and "Vostro1720" icons, and a system tray with various icons and the date/time "Thu Feb 23, 2:32 PM".

(Note:

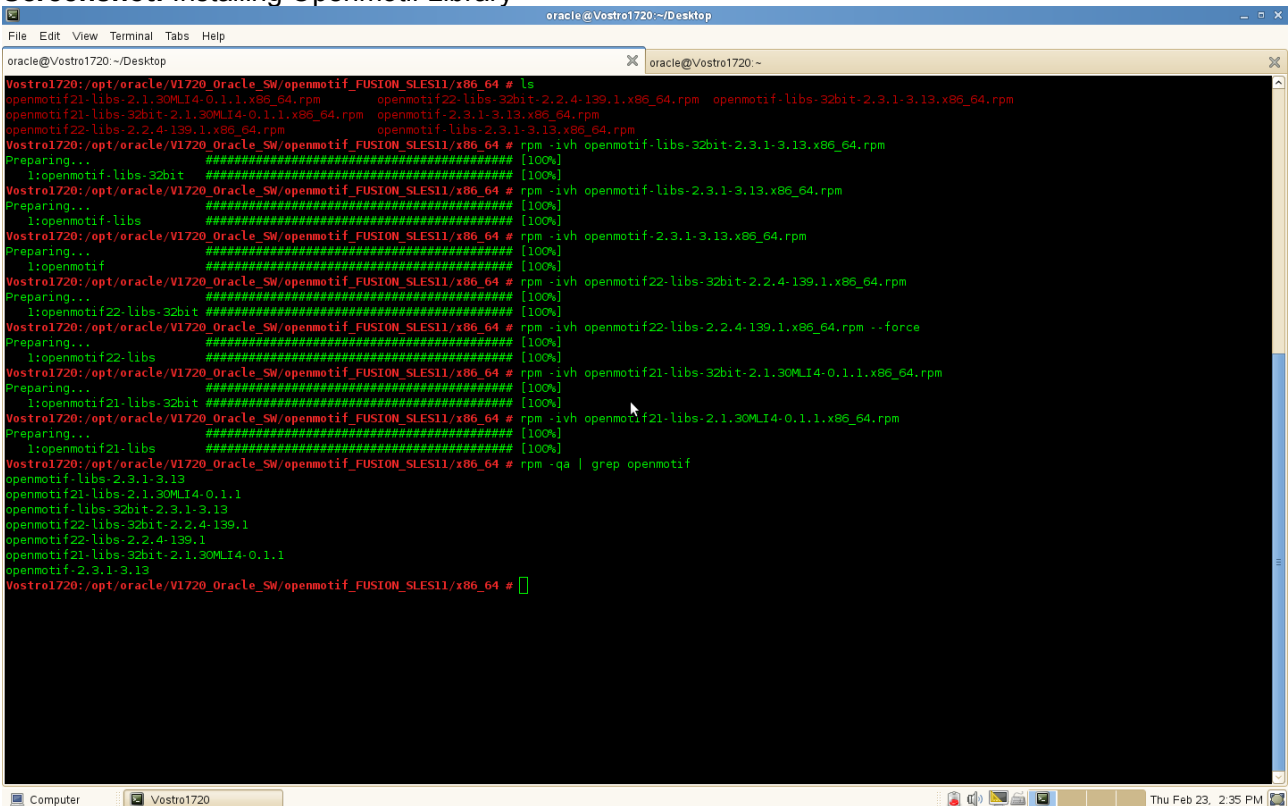
If "Oracle Server Base" as an additional installation with OS. Please make sure the following files not be present.

```
# mv /etc/profile.d/oracle.csh /etc/profile.d/oracle.csh.bak
# mv /etc/profile.d/oracle.sh /etc/profile.d/oracle.sh.bak
# mv /etc/profile.d/alljava.csh /etc/profile.d/alljava.csh.bak
# mv /etc/profile.d/alljava.sh /etc/profile.d/alljava.sh.bak
```

)



Screenshot: Installing Openmotif Library



Prerequisites

1. Oracle Database 11gR2 Installation

1-1. Oracle Database 11gR2 installed on a separate SLES 11 SP2 (x86_64) OS. The installation guide please refer to: (http://ftp.novell.com/partners/oracle/docs/11gR2_sles11_sp1_install.pdf)

1-2. Access to <https://E5400-DB.site:1158/em> after the database setup completed. The EM page will be displayed as shown below.

Screenshot: View Oracle Database 11gR2 Enterprise Manager

The screenshot displays the Oracle Enterprise Manager 11g console for database instance 'orcl'. The interface includes a navigation menu with options like Home, Performance, Availability, Server, Schema, Data Movement, and Software and Support. The main content area is divided into several sections:

- General:** Shows the instance status as 'Up' since Oct 17, 2011 5:36:39 PM CST. Instance Name is 'orcl', Version is '11.2.0.1.0', Host is 'E5400-DB.site', and Listener is 'LISTENER_E5400-DB.site'.
- Host CPU:** A bar chart showing CPU usage for 'Other' and 'orcl'. The load is 0.17 and paging is 0.00.
- Active Sessions:** A bar chart showing session counts for 'Wait', 'User I/O', and 'CPU'. The core count is 2.
- SQL Response Time:** A bar chart comparing 'Latest Collection (seconds)' and 'Reference Collection (seconds)'. The SQL Response Time (%) is 125.23.
- Diagnostic Summary:** Lists ADDM Findings (0), Alert Log (No OPA errors), Active Incidents (0), and Key SQL Profiles (0).
- Space Summary:** Shows Database Size (1.454 GB), Problem Tablespaces (0), Segment Advisor Recommendations (0), Policy Violations (0), and Dump Area Used (15%).
- High Availability:** Lists Console (n/a), Oracle Restart (Z), Instance Recovery Time (Z), Last Backup (n/a), Usable Flash Recovery Area (100%), and Flashback Database Logging (Disabled).
- Alerts:** Shows 0 Critical and 0 Warning alerts. A table with columns Severity, Category, Name, Impact, Message, and Alert Triggered is displayed.
- Policy Violations:** Shows 1 Critical Rule Violated, 0 Critical Security Patches, and a Compliance Score of 96%.

2. Oracle Internet Directory 10.1.4.0.1 and Patchset 10.1.4.3 Installation

2-1. Login to a separate SLES10 SP2 (32-bit) OS as a non-admin user, then download Oracle Internet Directory from <http://www.oracle.com/technetwork/middleware/ias/downloads/101401-099957.html> and Patchset from <https://support.oracle.com>

Download the packages as shown below:

```
as_linux_x86_oim_oif_101401_disk1.cpio
as_linux_x86_oim_oif_101401_disk1.cpio
p7215628_101430_LINUX.zip
```

2-2. Follow the installation instructions in the url:

(http://download.oracle.com/docs/cd/B28196_01/install.1014/b28194/title_linux.htm) for OID installation.

Screenshot: Access to OID EM page (<http://optiplex960-oid.site:1156/emd/console>)

The screenshot shows the Oracle Enterprise Manager 10g console in a Mozilla Firefox browser window. The page title is 'Oracle Enterprise Manager 10g Application Server Control'. The main content area displays the configuration for a farm named 'oracleas.site'. Under the 'Clusters' section, it states 'There are no clusters in the farm.' Under the 'Standalone Instances' section, it lists one instance with the following details:

Select Name	Host	Oracle Home
<input checked="" type="radio"/> oracleas1.optiplex960-oid.site	optiplex960-oid.site	/opt/oracle/OraHome_1

The bottom of the screenshot shows the Windows taskbar with the system tray displaying the date and time as 'Thu Oct 20, 3:06 PM'.

Oracle Fusion Middleware 11gR2 Certification with SLES 11 SP2

Oracle Enterprise Manager - Application Server: oracleas1.optiplex960-oid.site - Mozilla Firefox

Oracle Enterprise Manager (SY...) Oracle Enterprise Manager - Ap...

http://optiplex960-oid.site:1156/emd/console/ias/applicationServer?farm=oracleas1.optiplex960-oid.site&type=oracle*_ias&target=oracleas1.optiplex960-oid.site

ORACLE Enterprise Manager 10g
Application Server Control

Application Server: oracleas1.optiplex960-oid.site

Home J2EE Applications Ports Infrastructure Backup/Recovery

Page Refreshed Oct 20, 2011 3:59:56 PM

General Stop All Restart All

Status: **Up**
Host: optiplex960-oid.site
Version: 10.1.4.3.0
Installation Type: Identity Management and Metadata Repository
Oracle Home: /opt/oracle/OraHome_1
Farm: oracleas1.site

CPU Usage

- Application Server (0%)
- Idle (0%)
- Other (100%)

Memory Usage

- Application Server (30% 281MB)
- Free (4% 35MB)
- Other (66% 628MB)

System Components Enable/Disable Components Create OC4J Instance

Select All | Select None

Select Name	Status	Start Time	CPU Usage (%)	Memory Usage (MB)
<input type="checkbox"/> HTTP_Server	↑	Oct 11, 2011 10:09:50 PM	0.02	76.49
<input type="checkbox"/> OC4J_SECURITY	↑	Oct 11, 2011 10:09:52 PM	0.04	55.03
<input type="checkbox"/> oracleas1.optiplex960-oid.site_DAS	↑	N/A	N/A	N/A
<input type="checkbox"/> oracleas1.optiplex960-oid.site_DIP	↑	N/A	N/A	N/A
<input type="checkbox"/> oracleas1.optiplex960-oid.site_LDAP	↑	Oct 11, 2011 10:09:49 PM	0.00	7.83
<input type="checkbox"/> Single_Sign-On_orasso	↑	N/A	N/A	N/A
<input type="checkbox"/> Management	↑	Mar 23, 2010 5:24:39 PM	0.04	141.32

TIP This table contains only the enabled components of the application server. Only components that have the checkbox enabled can be started or stopped.

Related Links

http://optiplex960-oid.site:1156/emd/console/ias/application...id.site?target=oracleas1.optiplex960-oid.site?event=doLoad

Computer Vostro1720 [03-OID_pic - File Bro...] Oracle Enterprise Ma... Thu Oct 20, 3:07 PM

Oracle Enterprise Manager - Application Server: oracleas1.optiplex960-oid.site - Mozilla Firefox

Oracle Enterprise Manager (SY...) Oracle Enterprise Manager - Ap...

http://optiplex960-oid.site:1156/emd/console/ias/ports?type=oracle_ias&farm=oracleas1.optiplex960-oid.site&target=oracleas1.optiplex960-oid.site

ORACLE Enterprise Manager 10g
Application Server Control

Application Server: oracleas1.optiplex960-oid.site

Home J2EE Applications Ports Infrastructure Backup/Recovery

Page Refreshed Oct 20, 2011 4:00:28 PM

The Port in Use column is empty if the port is not defined or if the component is not running. The Configure column contains an icon if you can configure the port using Enterprise Manager. Otherwise, you must refer to the component documentation. Regardless of how you modify the ports, you must consider any port dependencies before modifying a port value. More information [About Oracle Application Server Port Dependencies](#)

Component	Type	Port In Use	Suggested Port Range	Configure
DCM Object Cache	Cache Discovery Port		7100-7199	
Log Loader	Management	44000	44000-44099	
OC4J_SECURITY	RMI	12401	12401-12500	
OC4J_SECURITY	JMS	12601	12601-12700	
OC4J_SECURITY	AJP	12501	12501-12600	
OPMN	ONS Remote	6200	6200-6299	
OPMN	ONS Local	6101	6100-6199	
OPMN	ONS Request	6003	6003-6099	
Oracle Enterprise Manager 10g	Application Server Control	1156	1156,1810-1829	
Oracle Enterprise Manager 10g	Oracle Management Agent	1157	1157,1830-1849	
Oracle Enterprise Manager 10g	Application Server Control RMI	1850	1850-1869	
Oracle HTTP Server	Diagnostic	7200	7200-7299	
Oracle HTTP Server	Listen	7777	80,7777-7877	
Oracle HTTP Server	Listen (SSL)		443,4443-4543	
Oracle Internet Directory	Non SSL Port	389	13060-13129	
Oracle Internet Directory	SSL Port	636	13130-13199	

Home J2EE Applications Ports Infrastructure Backup/Recovery

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About Oracle Enterprise Manager 10g Application Server Control

http://optiplex960-oid.site:1156/emd/console/ias/application...le*_ias&target=oracleas1.optiplex960-oid.site?event=doLoad

Computer Vostro1720 [03-OID_pic - File Bro...] Oracle Enterprise Ma... Thu Oct 20, 3:07 PM

3. Java Installation

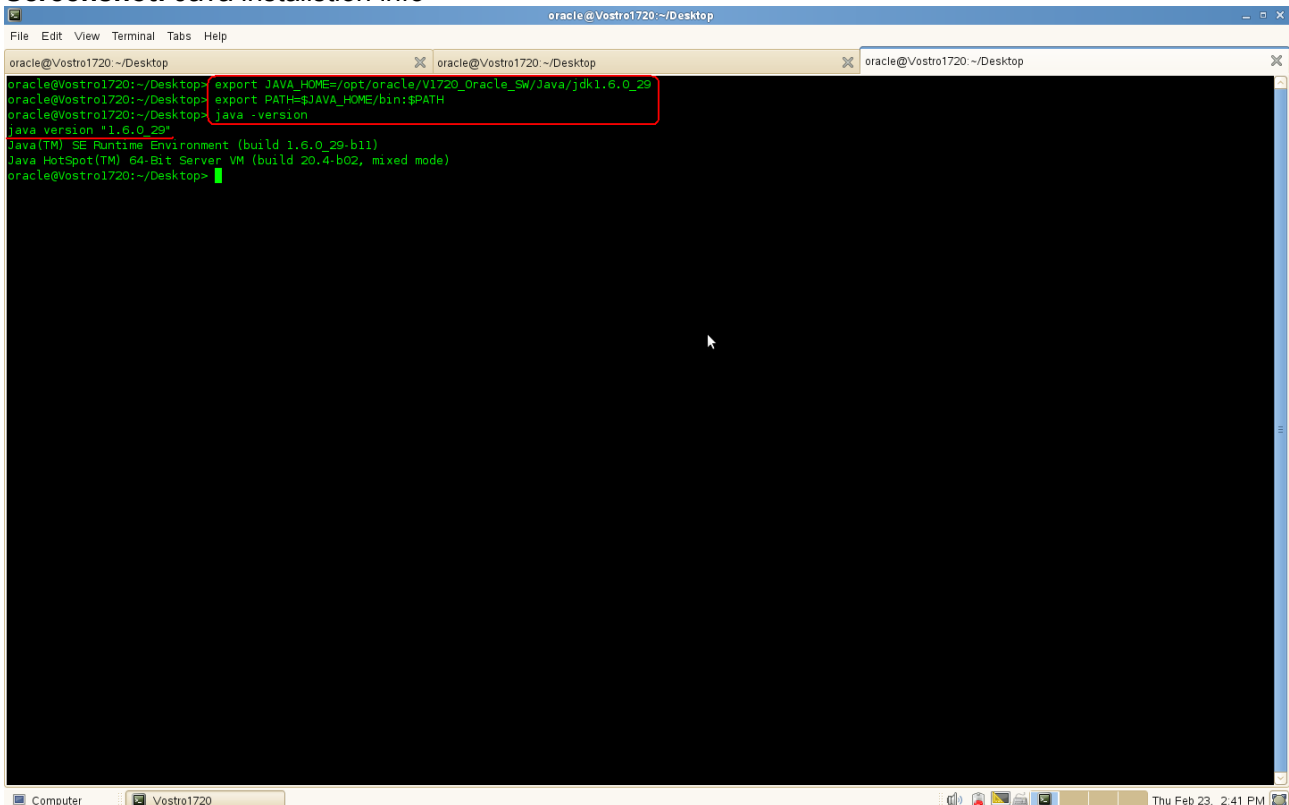
3-1. Login to the SLES 11 SP2 64-bit OS(Testing Machine which Portal...Discoverer would be installed.) as a non-admin user. Download the latest JDK from the URL:

(<http://www.oracle.com/technetwork/java/javase/downloads/index.html>)

3-2. Chmod +x **jdk-6u29-linux-x64.bin**, then execute for JDK installation.

3-3. Set JAVA_HOME and PATH variables, then check the version information.

Screenshot: Java installstion info



```
oracle@Vostro1720:~/Desktop
oracle@Vostro1720:~/Desktop
oracle@Vostro1720:~/Desktop
export JAVA_HOME=/opt/oracle/V1720_oracle_SW/Java/jdk1.6.0_29
export PATH=$JAVA_HOME/bin:$PATH
java -version
java version "1.6.0_29"
Java(TM) SE Runtime Environment (build 1.6.0_29-b11)
Java HotSpot(TM) 64-Bit Server VM (build 20.4-b02, mixed mode)
oracle@Vostro1720:~/Desktop>
```

4. Oracle WebLogic Server Installation

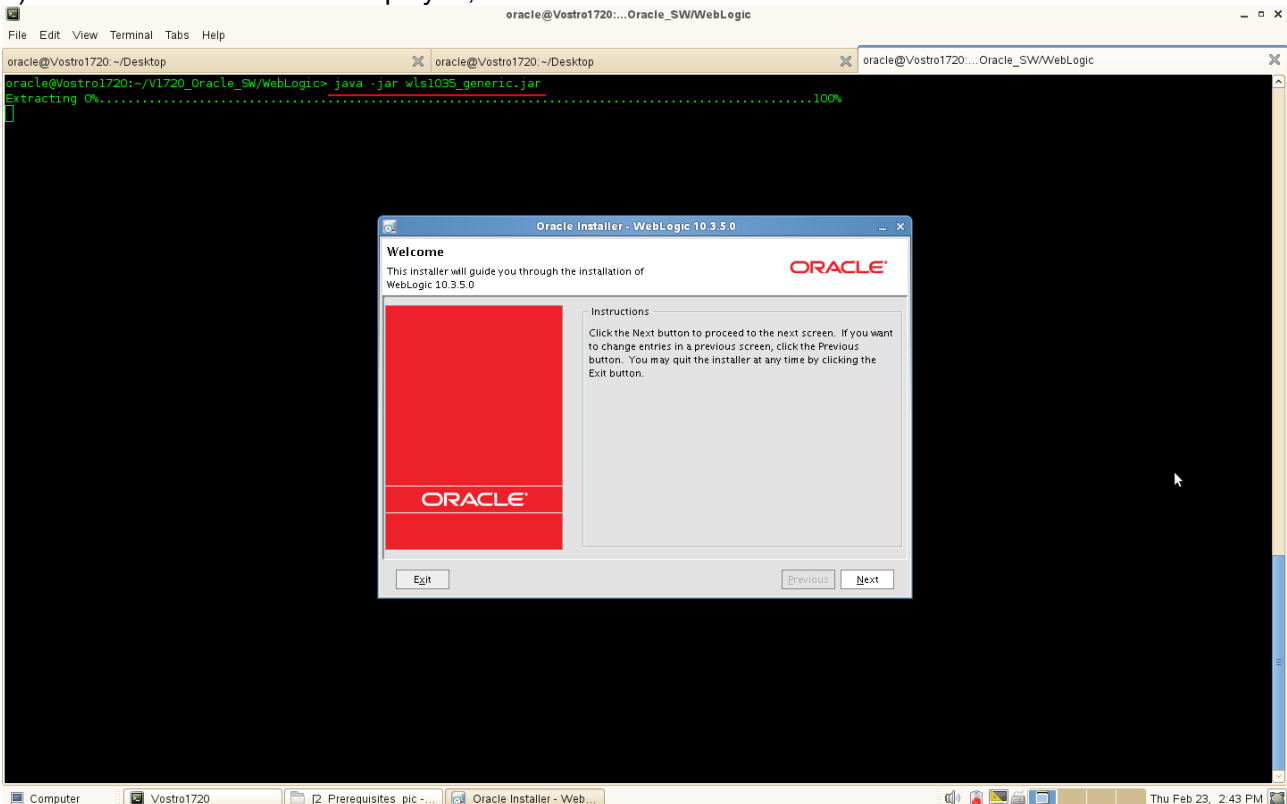
4-1. Login as the same non-admin user which was used for Java installation.

4-2. Download Oracle WebLogic 10.3.5 generic installer from:
(<http://www.oracle.com/technetwork/middleware/downloads/fmw-11-download-092893.html>)

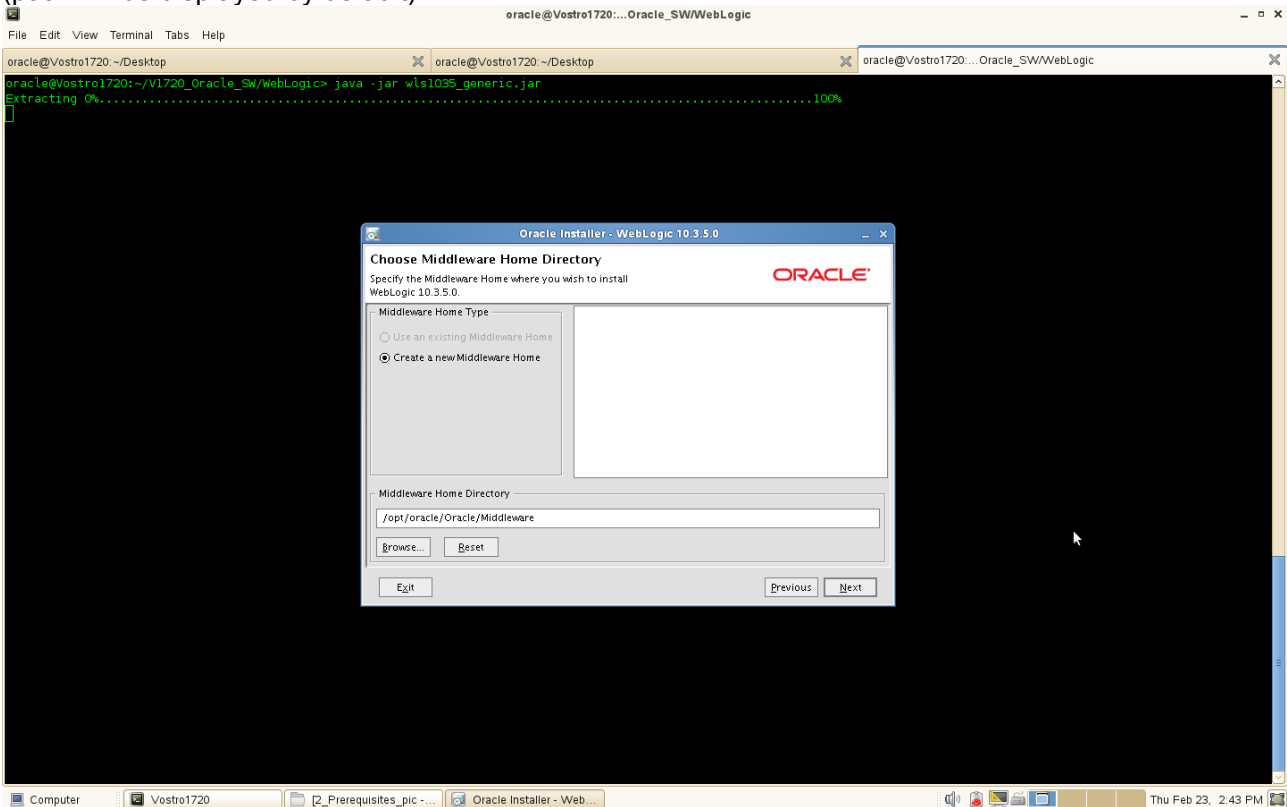
4-3. Execute the WebLogic generic installer using the command `java -jar <WebLogic jar installer>`.

Install Flow:

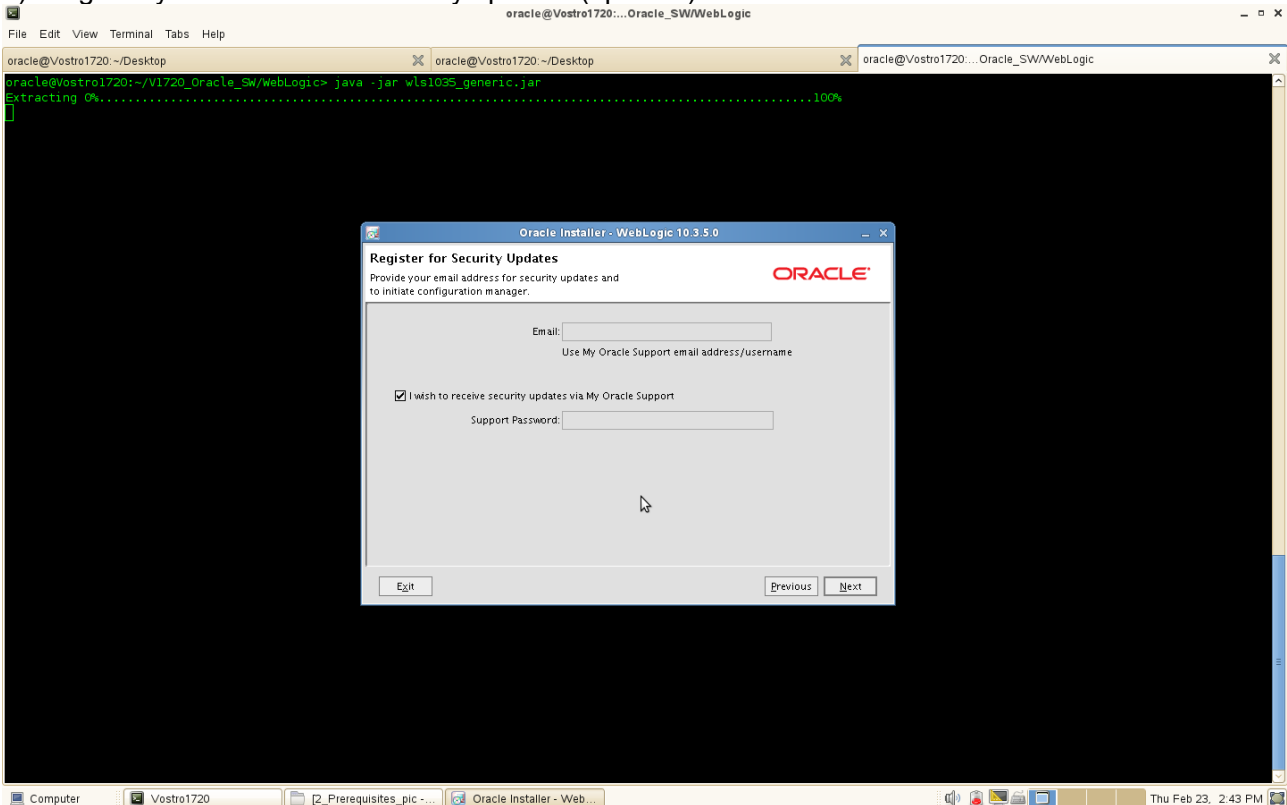
1). Welcome Screen will be displayed, click **Next** to continue.



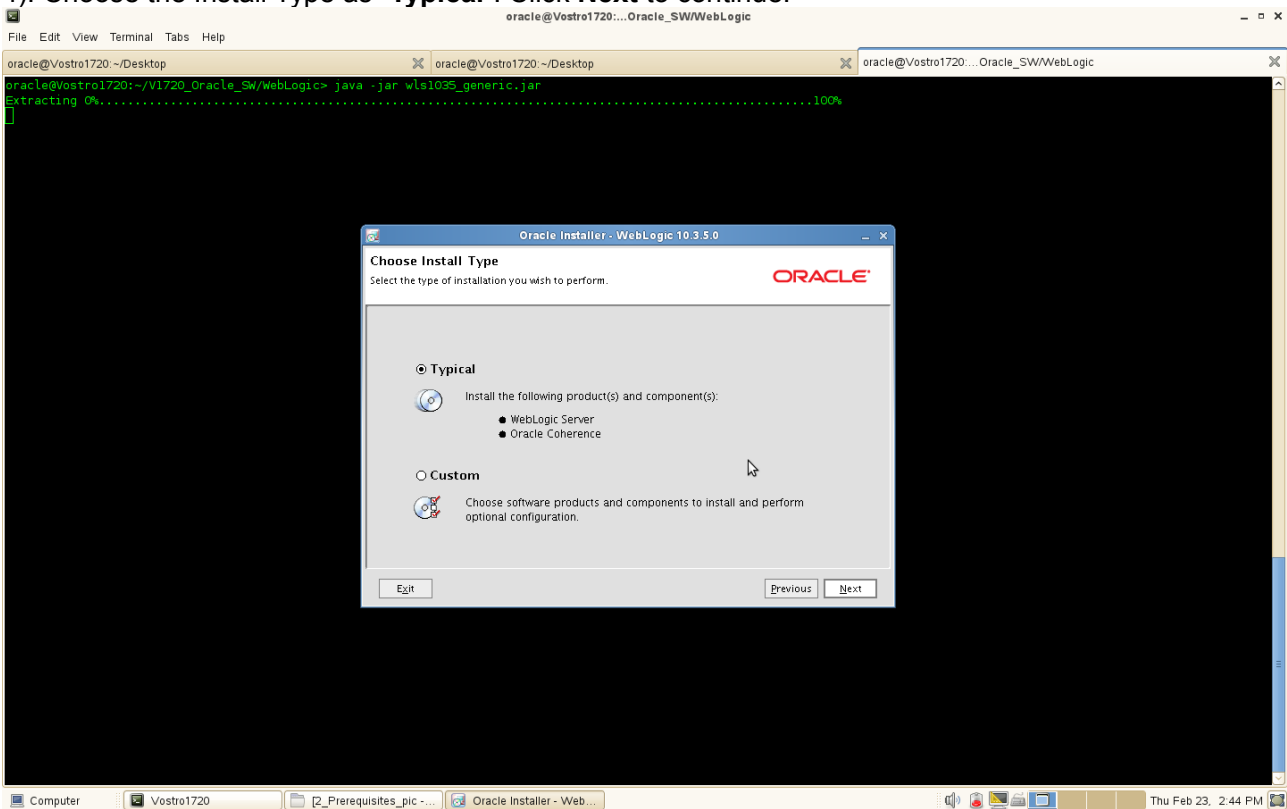
2). Select “Create a new Middleware Home” and give the path of the Middleware Home Directory (path will be displayed by default).



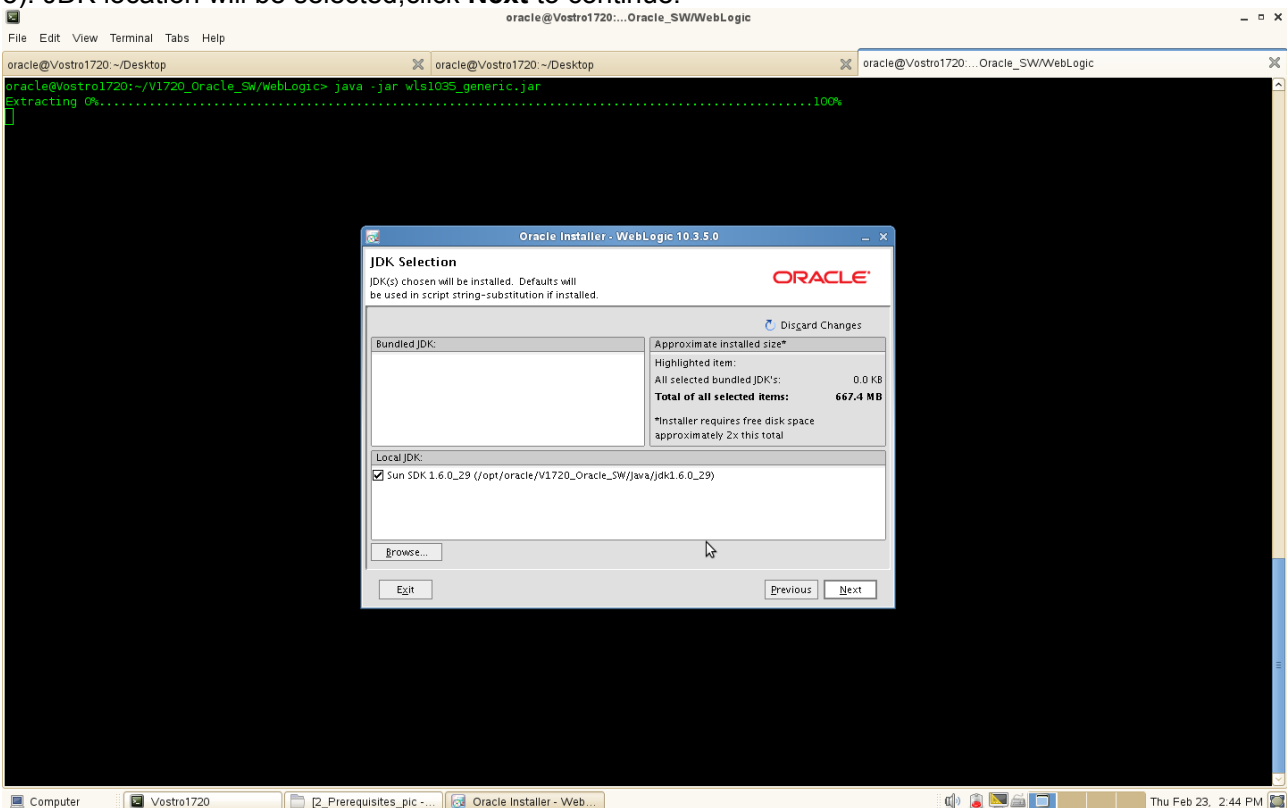
3). Register your email ID for security updates (optional).



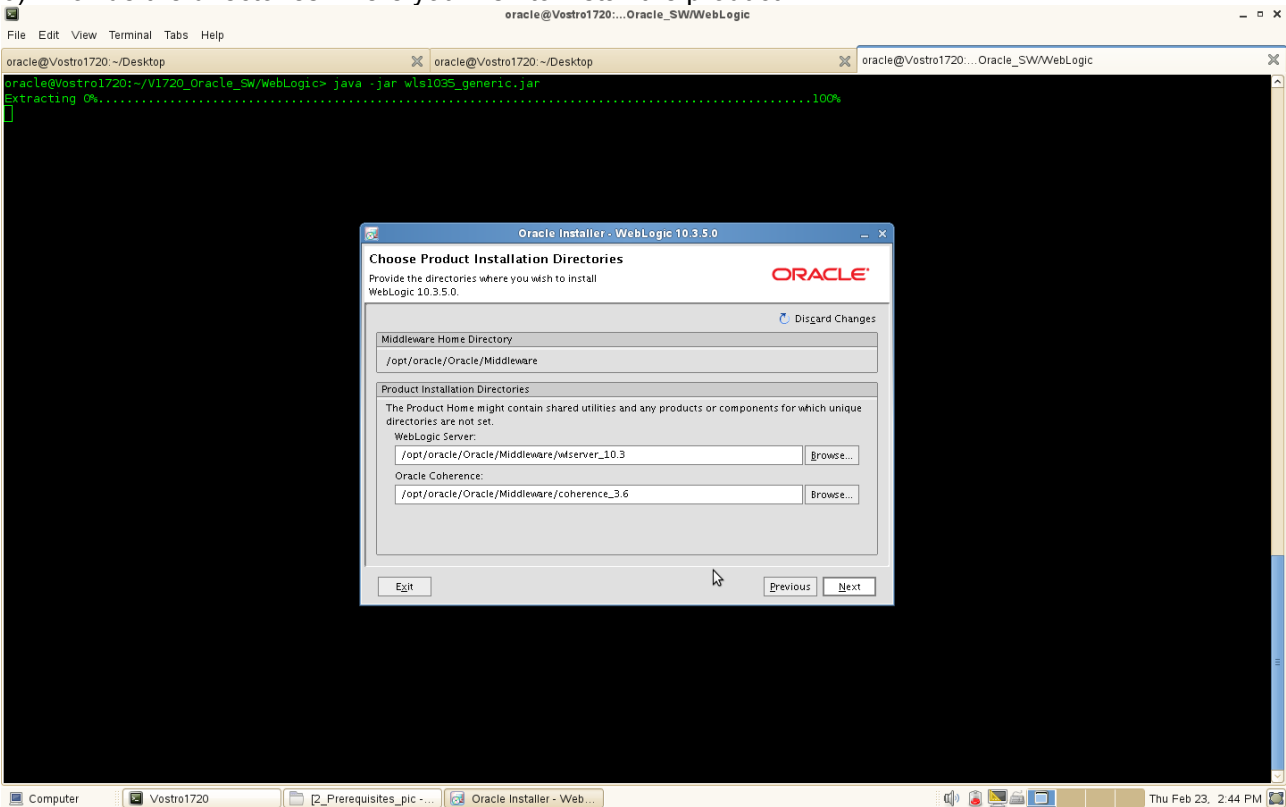
4). Choose the Install Type as **Typical**. Click **Next** to continue.



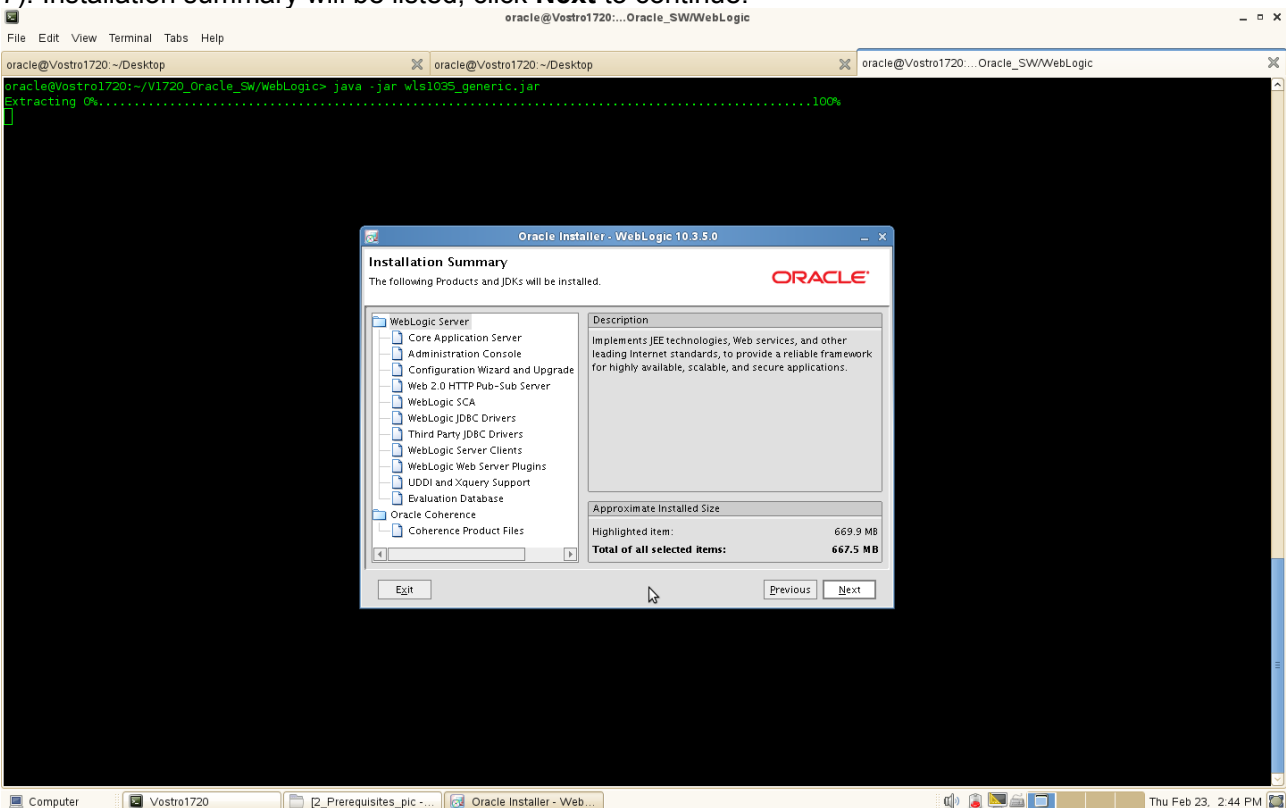
5). JDK location will be selected, click **Next** to continue.



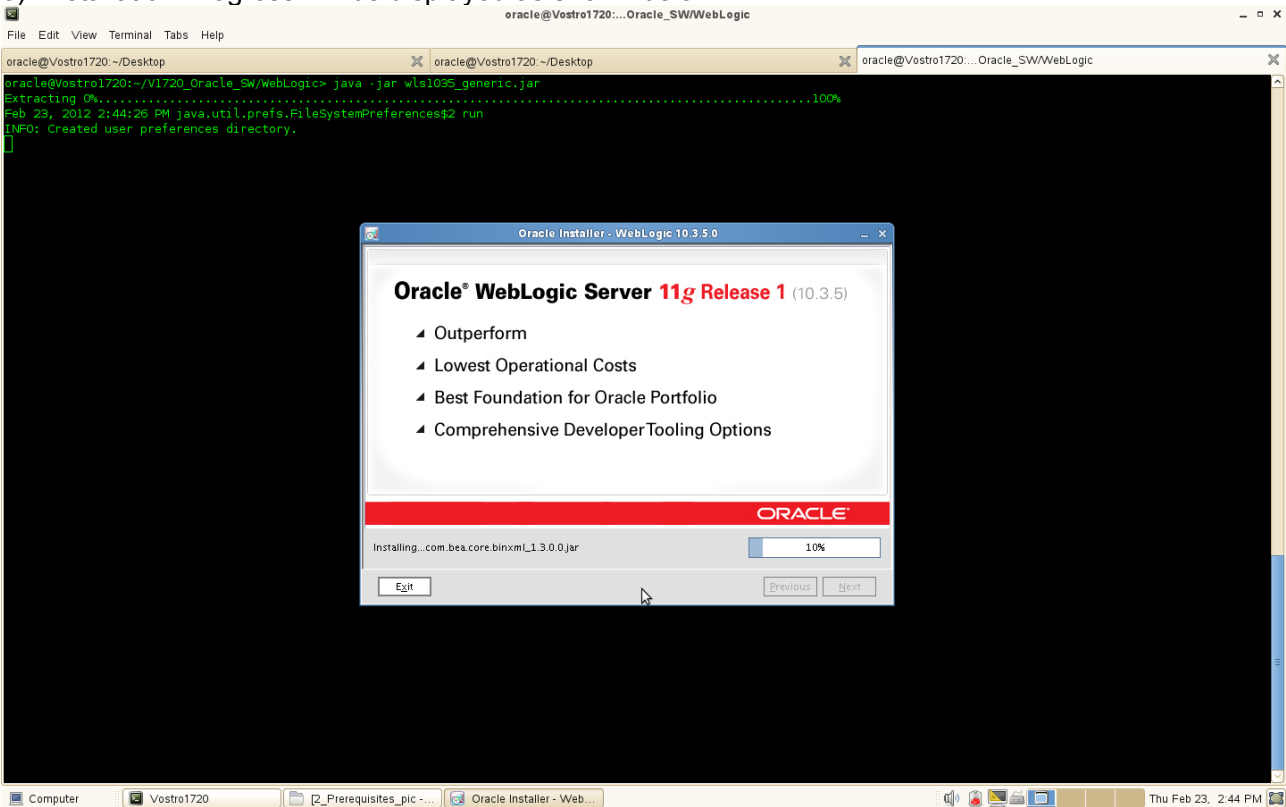
6). Provide the directories where you wish to install the product.



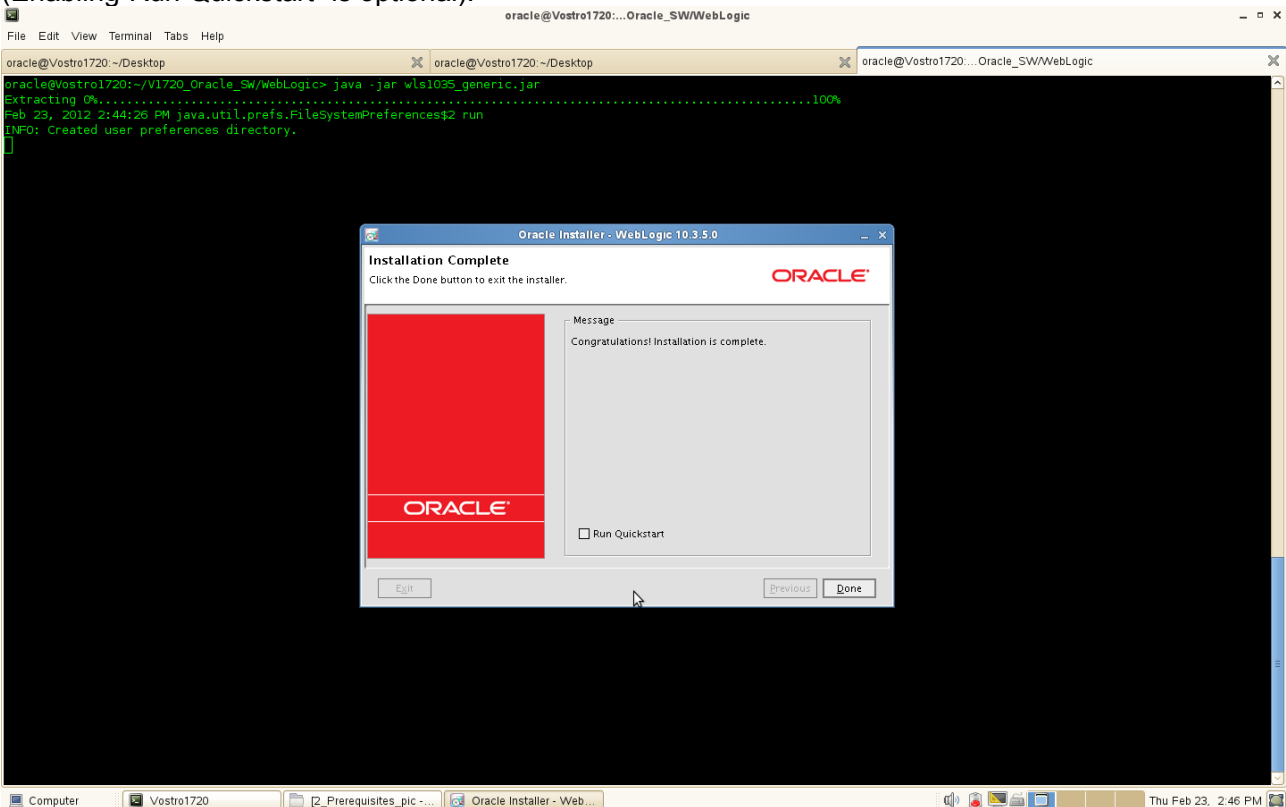
7). Installation summary will be listed, click **Next** to continue.



8). Installation Progress will be displayed as shown below.



9). The "Installation Complete" message will be displayed. Click **Done** and close the installation. (Enabling "Run Quickstart" is optional).



Installing and Configuring Oracle Forms and Reports 11gR2

1. Login to the SLES 11 SP2 64-bit OS(Testing Machine which Forms and Reports would be installed.) as an admin user install the following **openmotif** packages .

```
openmotif-libs-32bit-2.3.1-3.13.x86_64.rpm
openmotif-libs-2.3.1-3.13.x86_64.rpm
openmotif-2.3.1-3.13.x86_64.rpm
openmotif22-libs-32bit-2.2.4-139.1.x86_64.rpm
openmotif22-libs-2.2.4-139.1.x86_64.rpm
openmotif21-libs-32bit-2.1.30MLI4-0.1.1.x86_64.rpm
openmotif21-libs-2.1.30MLI4-0.1.1.x86_64.rpm
```

These packages can be installed from **SLED 11 SP2 ISO DVD**. Or download from the URL:
(ftp://ftp.novell.com/partners/oracle/sles-11/openmotif_FUSION_SLES11.tgz)

Once above packages were installed **reboot** the Testing Machine.

(**Note:** Using rpm with flag “ - -force” to solve conflicts during openmotif packages installing.)

2. Re-login to the Test Machine(Installed SLES 11 SP2 64-bit OS) as a non-admin user and download the Oracle Forms and Reports 11gR2 11.1.2.0.0,

```
ofm_frmrpts_linux_11.1.2.0.0_64_disk1_1of1.zip
```

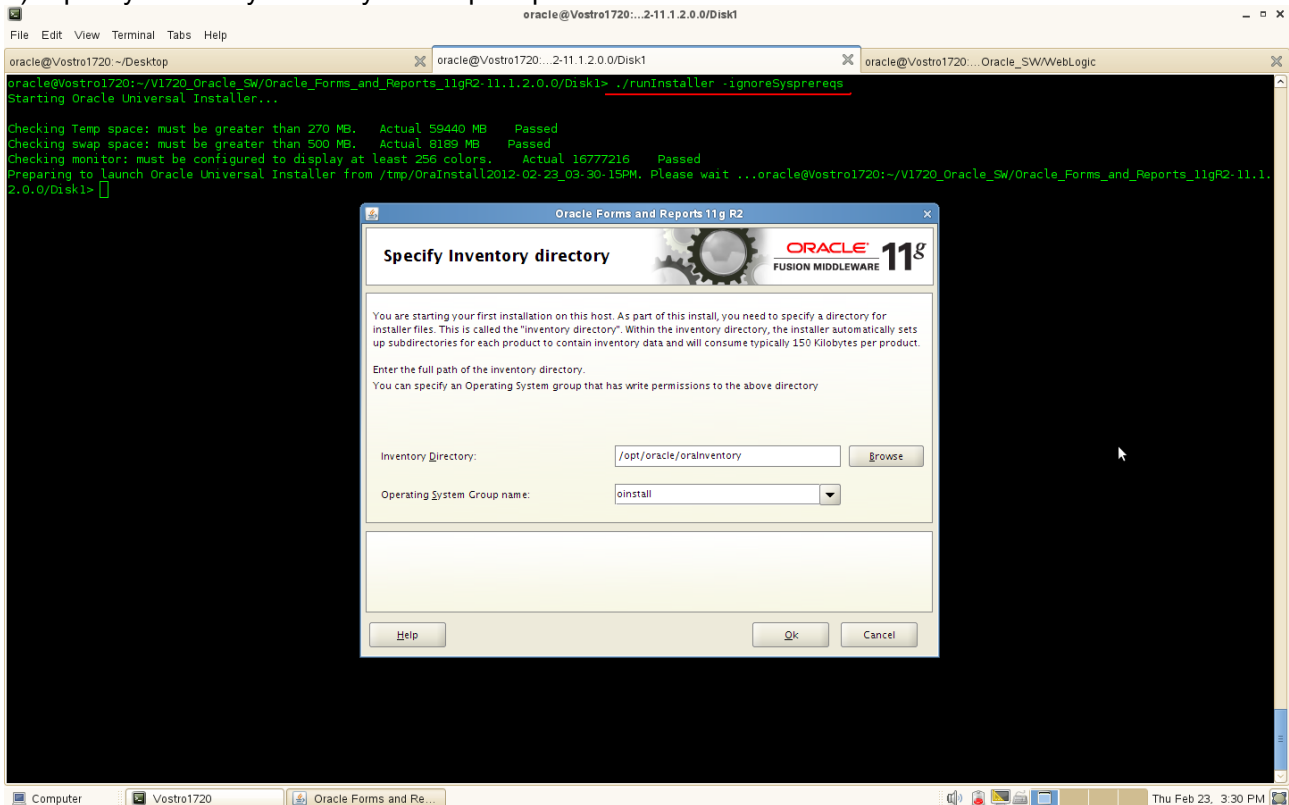
from the URL:(<http://www.oracle.com/technetwork/developer-tools/forms/downloads/index.html>)

3. Unzip the .zip files and go to Disk1/, run the installer(./runInstaller) with the parameters **-ignoreSysPrereqs**.

(**Note:** Enable OID server, Forms and Reports server known each other by using Hostname before the installing.)

Install Flow:

1). Specify Inventory directory will be prompted.



(Note:

The above screen appears for UNIX systems only; if this is your first Oracle installation on this host, you must specify the location of the inventory directory. This inventory directory is used by the installer to keep track of all Oracle products installed on the computer.

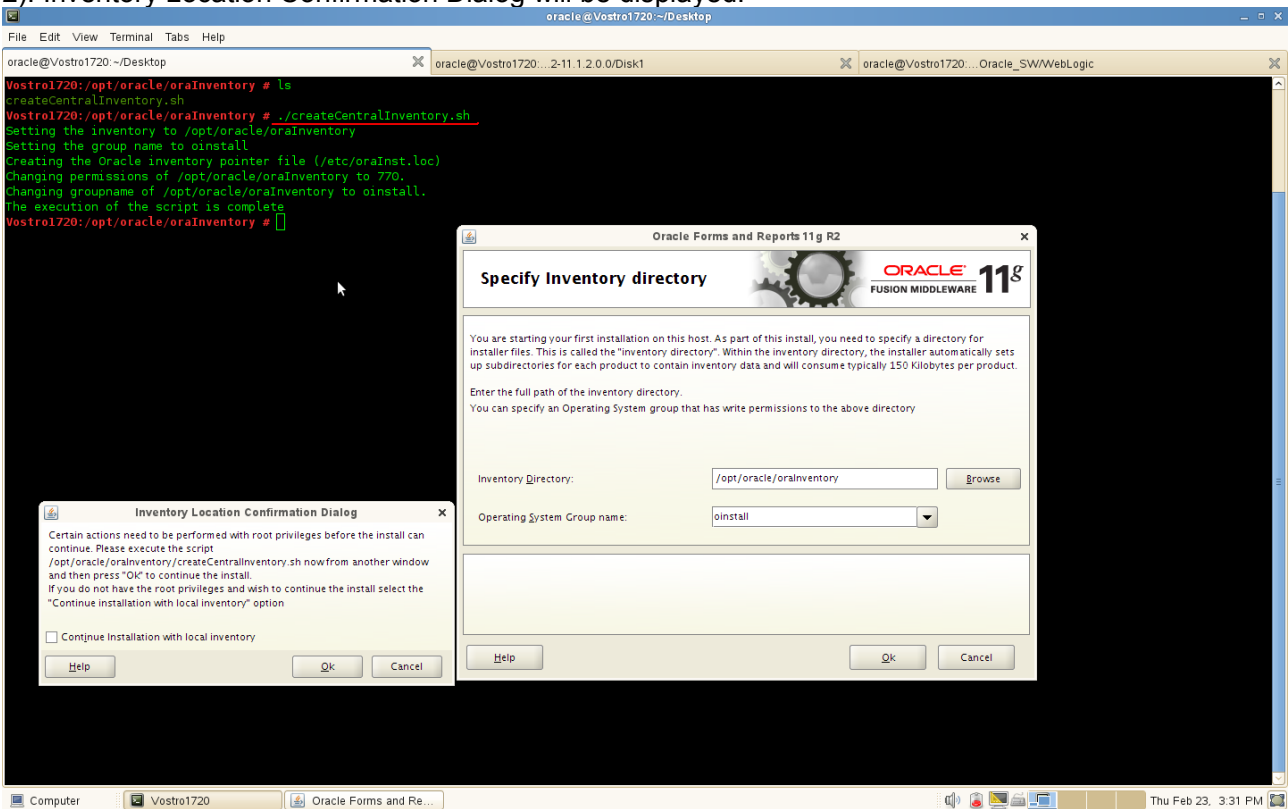
The default inventory location is USER_HOME/orainventory.

In the Operating System Group name field, select the group whose members you want to grant access to the inventory directory; all members of this group will be able to install products on this machine.

)

Click **OK** to continue.

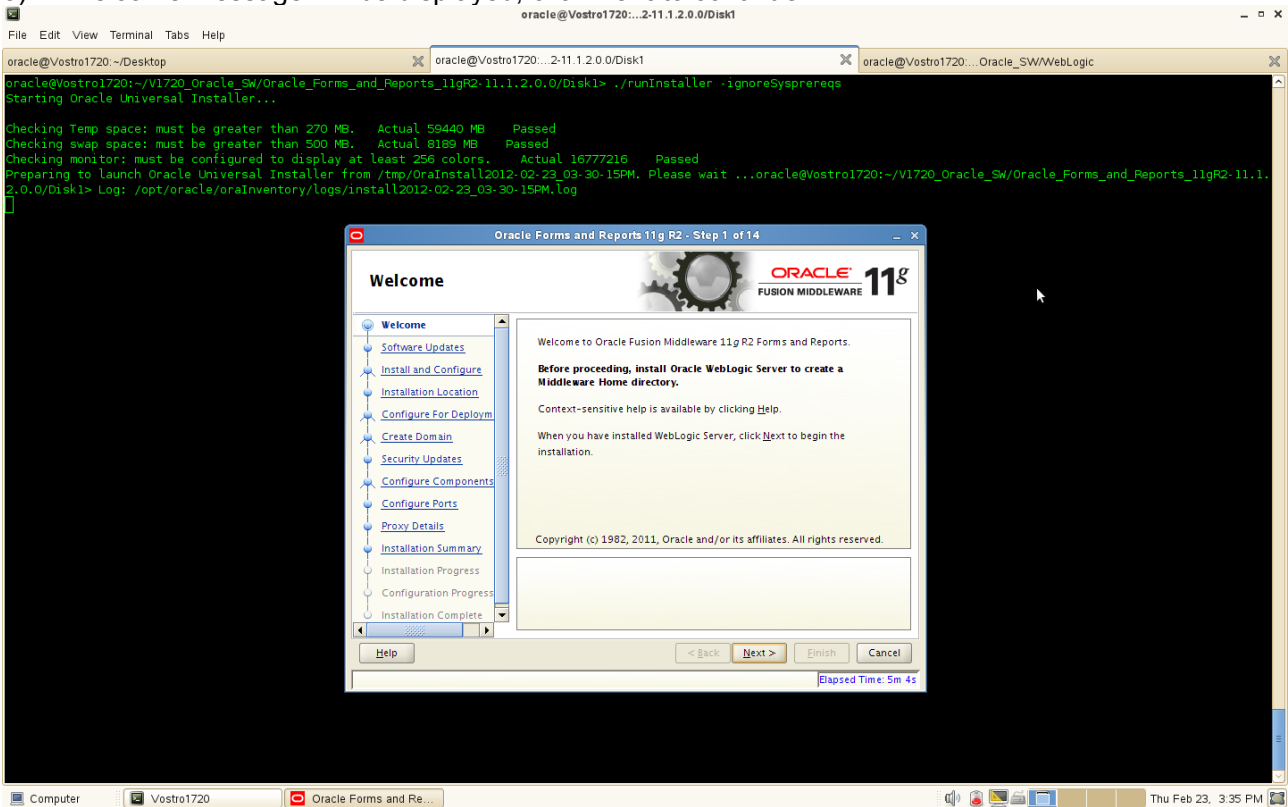
2). Inventory Location Confirmation Dialog will be displayed.



You are asked to run the **inventory_directory/createCentralInventory.sh** script as root. If you do not have root access on this machine but wish to continue with the installation, select Continue installation with local inventory.

Click **OK** to continue.

3). A Welcome message will be displayed, click **Next** to continue.

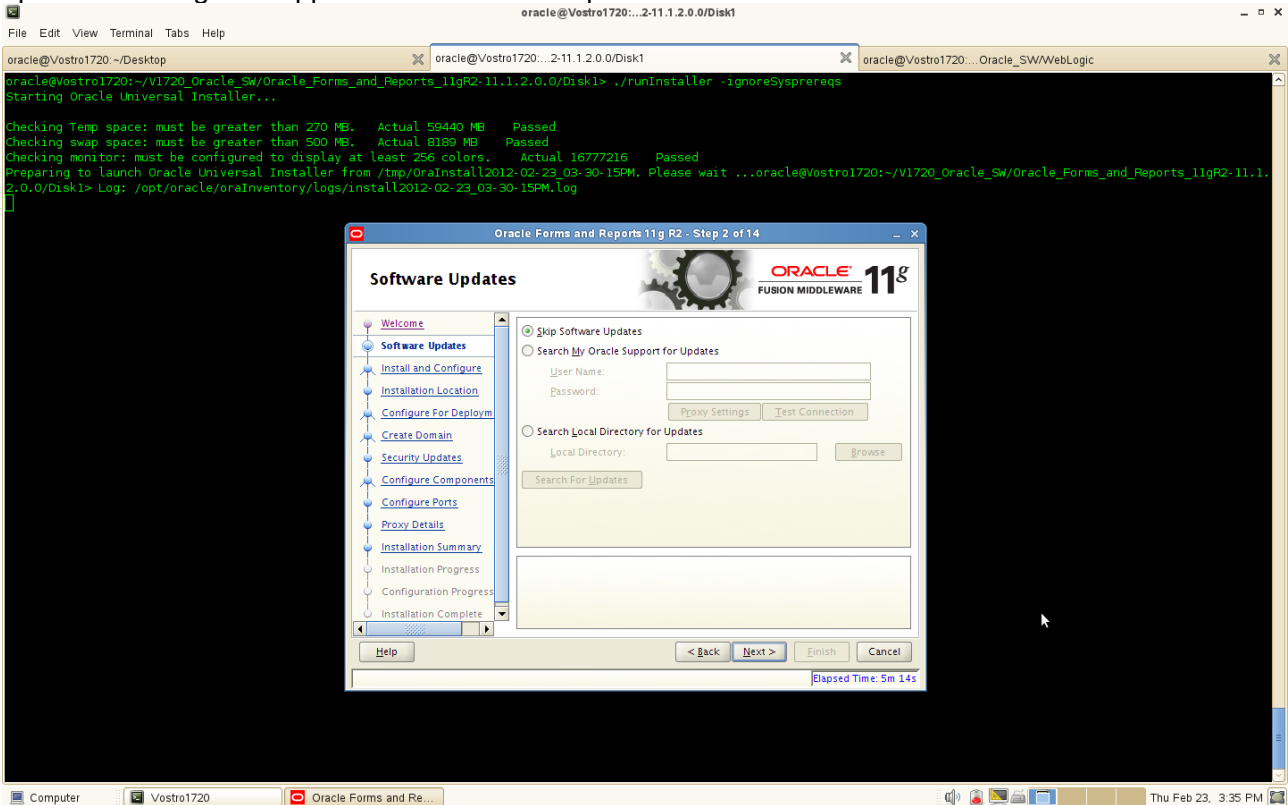


(Note:

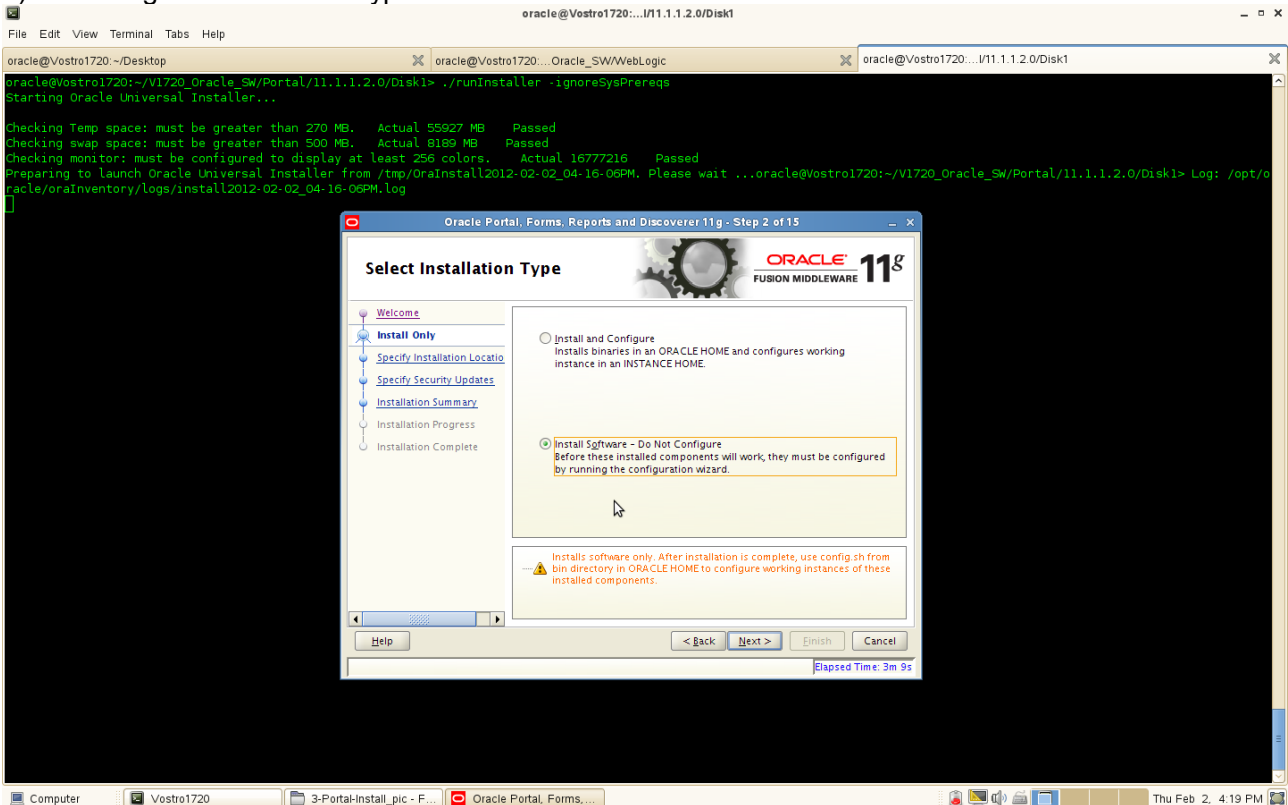
Before continuing, make sure that OID 10.1.4.0.1 has been installed and upgraded to existing OID installation to 10.1.4.3, and also you have installed and configured WebLogic Server. Besides, enable OID server and Forms...Reports server know each other by Hostname.

)

4). Software Updates. Select **"Skip Software Updates"** if you do not want the installer to check for updates that might be applicable to the current product installation. Click **Next** to continue.



5). Selecting the Installation Type as shown below.



Select the type of installation you want to perform.

- **Install and Configure**

Select this option to have the installer create an Oracle Home directory where the software will be installed, and an Oracle Instance directory where a working instance of the software will be created.

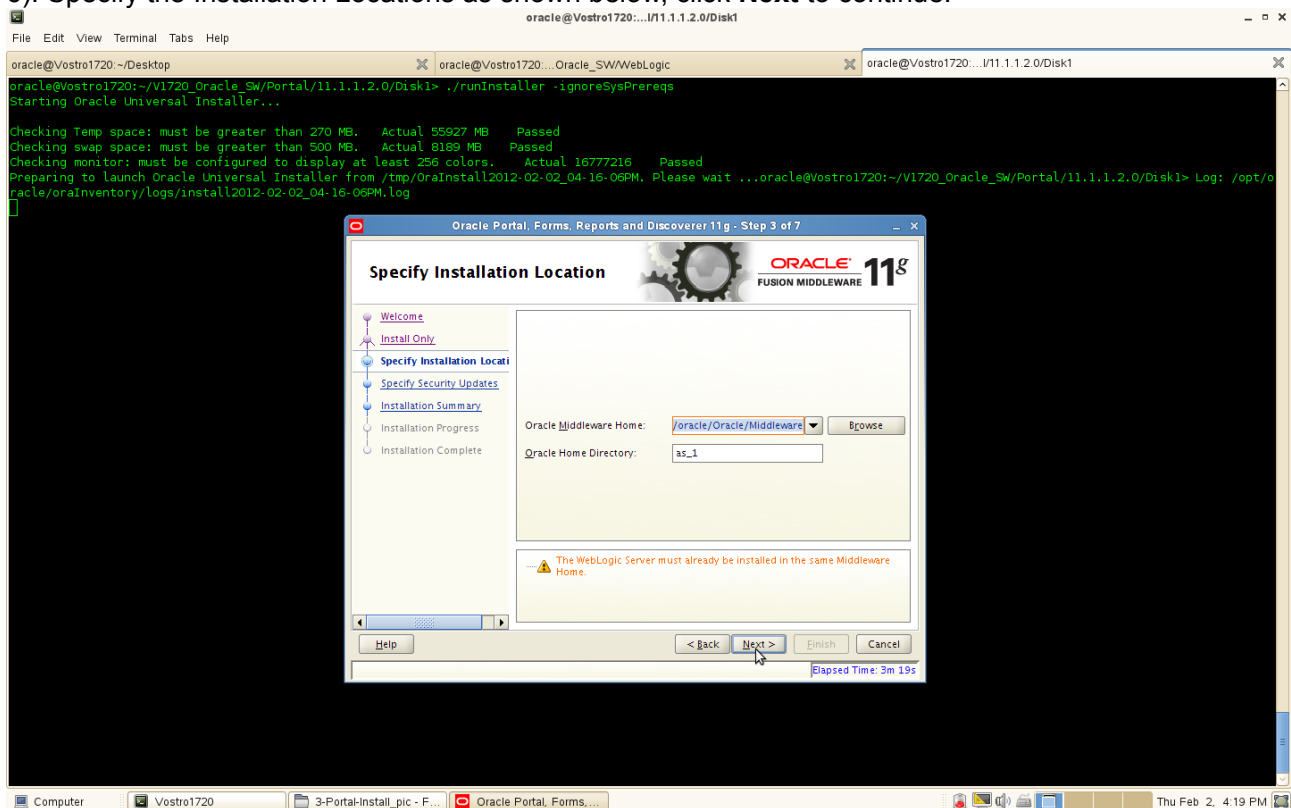
After the installation is complete, you can modify the configured instance using Enterprise Manager or WebLogic Server Administration Console.

- **Install Software - Do Not Configure**

Select this option to have the installer create an Oracle Home directory where the software will be installed. After the installation, you must run the Configuration Tool separately to configure a working instance.

Click **Next** to continue.

6). Specify the Installation Locations as shown below, click **Next** to continue.



The following table describes the fields on this screen:

- **Oracle Middleware Home Location**

The absolute path to the directory where WebLogic Server was installed.

- **Oracle Home Directory**

The directory name for your Oracle home:

- 1). You can specify a directory that already exists; this must be an empty directory inside the

Oracle Middleware home (for example, you have created an empty directory inside the Middleware home in advance of this installation and should specify this directory here).
 2). You can specify the name of a new directory that will be created for you inside the Middleware home.

Your Oracle home directory where your products will be installed. All software binaries will reside in this directory, and no runtime process can write to this directory.

- WebLogic Server Location

The directory name for your WebLogic Server home. This directory will automatically be created inside the Middleware home. The default name for this directory is `wlserver_10.3`.

- Oracle Instance Location

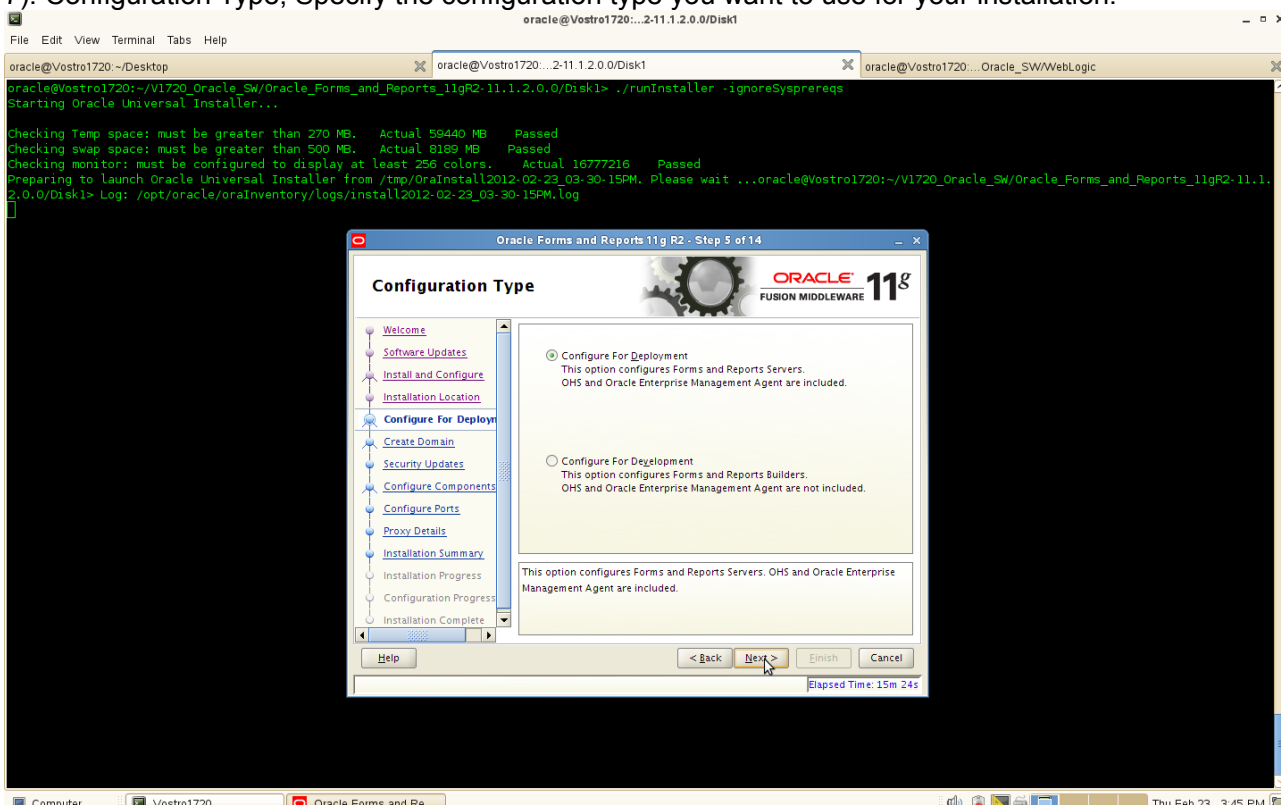
The absolute path to the directory where your Oracle Instance will reside. This is where application configuration files reside and where the application process runs from. Runtime components write only to this location.

By default, this directory will be created inside the Middleware home but you can choose any location on your system.

- Oracle Instance Name

Specify the unique name of your Oracle Instance. The Oracle Instance name may only contain alphanumeric and underscore (`_`) characters, it must begin with an alphabetic (a-z or A-Z) character, and must be 4 to 30 characters in length.

7). Configuration Type, Specify the configuration type you want to use for your installation.



- Configure For Deployment

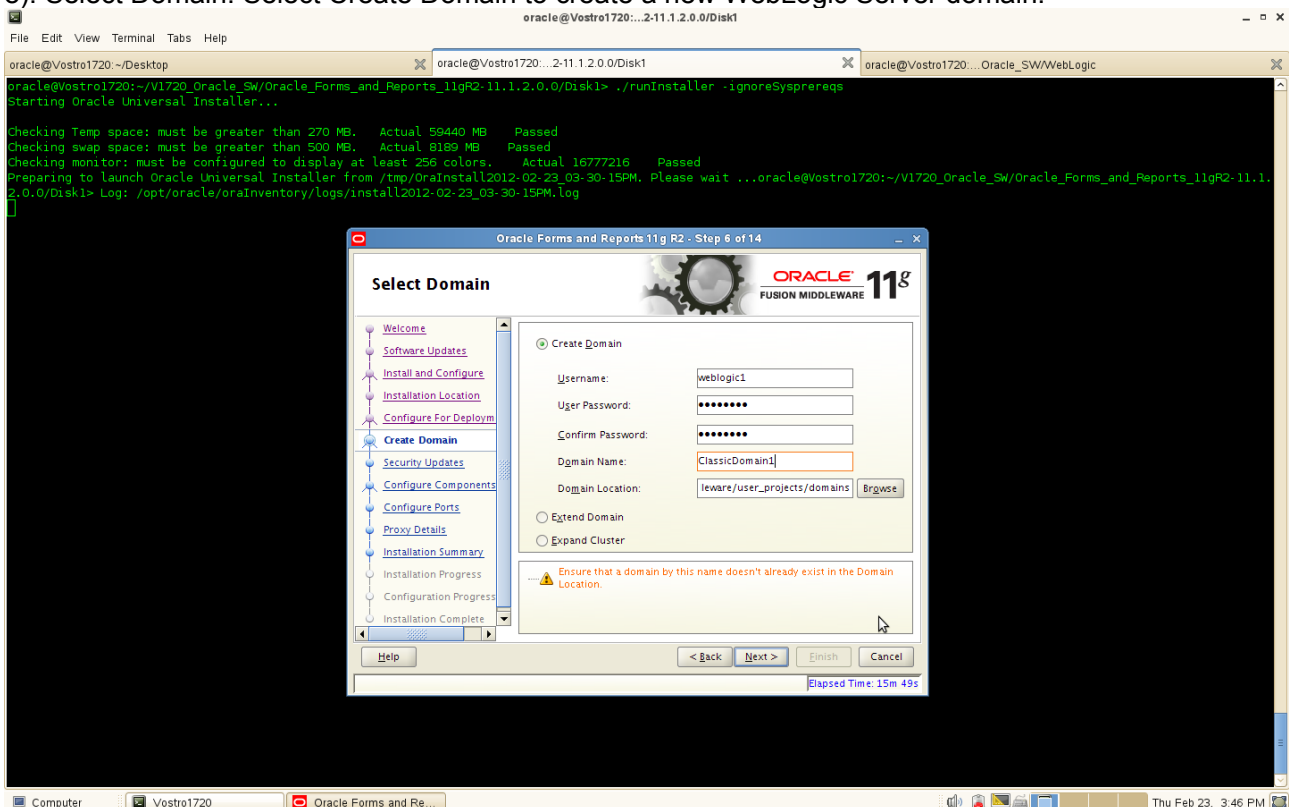
Select this option to install and configure Oracle Forms and Reports. Oracle HTTP Server and Oracle Enterprise Manager are included.

- Configure For Development

Select this option to install and configure Oracle Forms and Reports. Oracle HTTP Server and Oracle Enterprise Manager are not included.

(NOTE: This option is not supported for use as a production application environment.)

8). Select Domain. Select Create Domain to create a new WebLogic Server domain.



- User Name Specify the user name.

The default user name is weblogic.

- User Password Specify the user password.

Valid passwords are 8 to 30 characters long, must begin with an alphabetic character, use only alphanumeric, underscore (_), dollar (\$) or pound (#) characters. It should contain at least one numeric, underscore (_), dollar (\$), or pound (#) character.

- Confirm Password

Re-enter the user password.

- Domain Name

Specify the name of the domain you want to create. Domain names may only contain alphanumeric characters, or the underscore (`_`) or hyphen (`-`) characters.

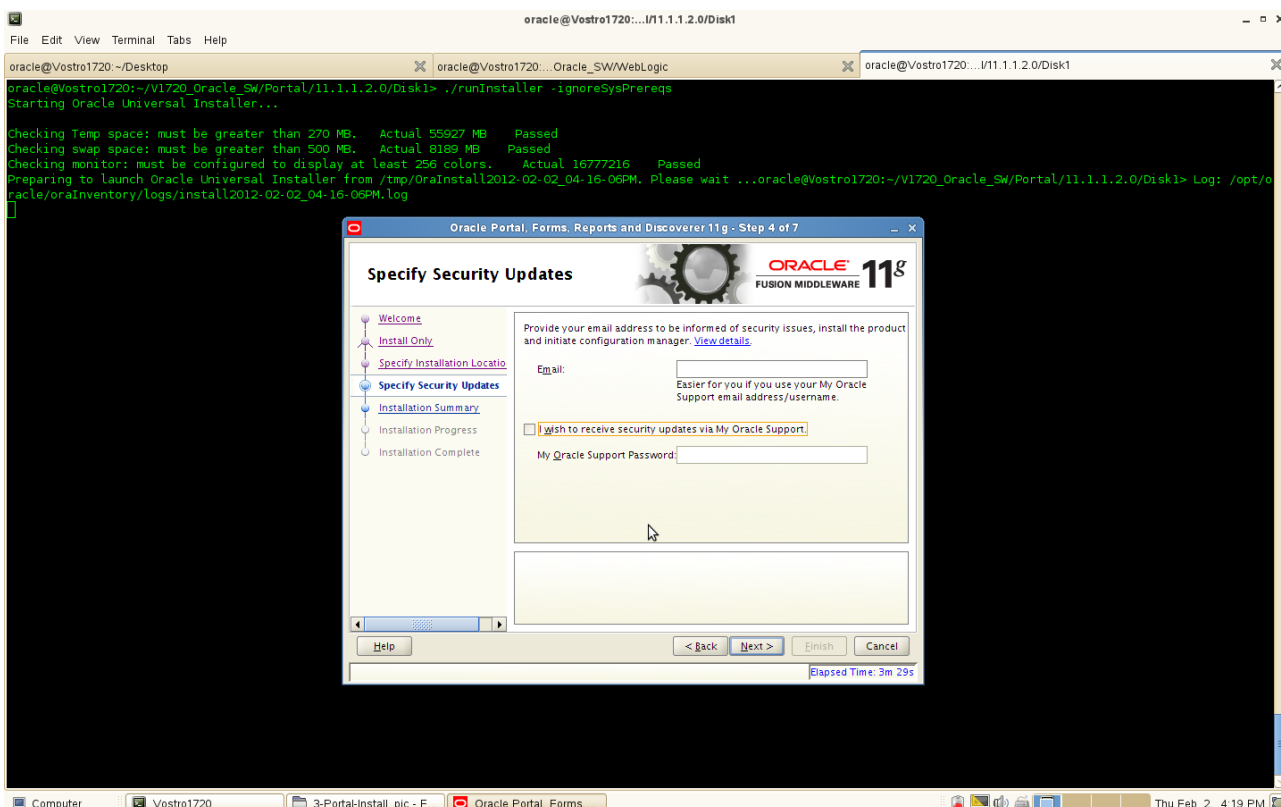
- Domain Location

Specify the location where you want to create your new domain.

If you do not specify a location, the domain will be created in the following location:

On Linux operating systems: `MW_HOME/user_projects/domains/domain_name`

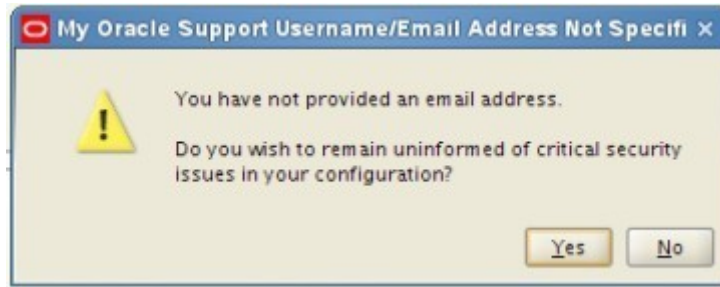
9). Specify Security Updates, provide the details and click **Next** to continue.



(Note:

Enter your E-mail address if you want to receive the latest product information and security updates. If you have a My Oracle account and wish to receive updates via this mechanism, select I wish to receive security updates via My Oracle Support, then enter your account password.

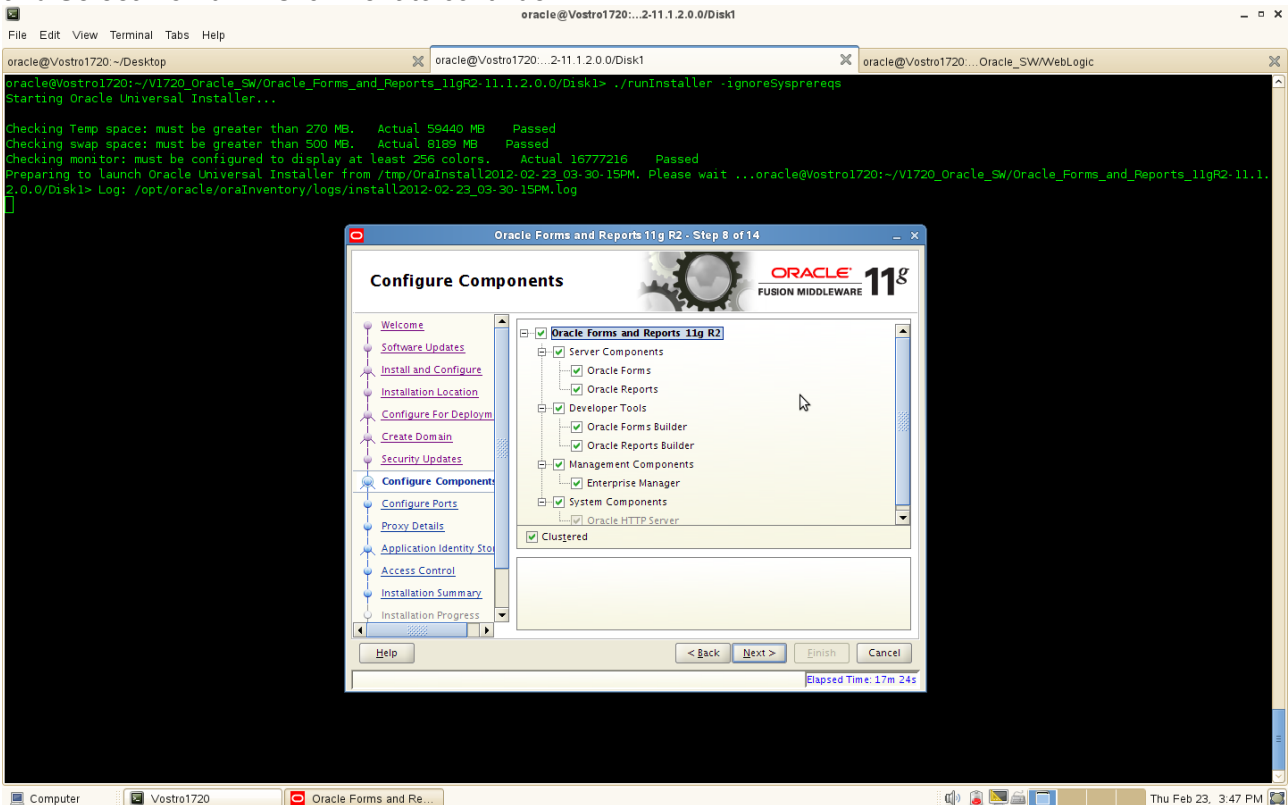
If you do not wish to register for Oracle Configuration Manager, leave all the fields on this screen blank. You will be prompted to confirm your selection with the following screen:



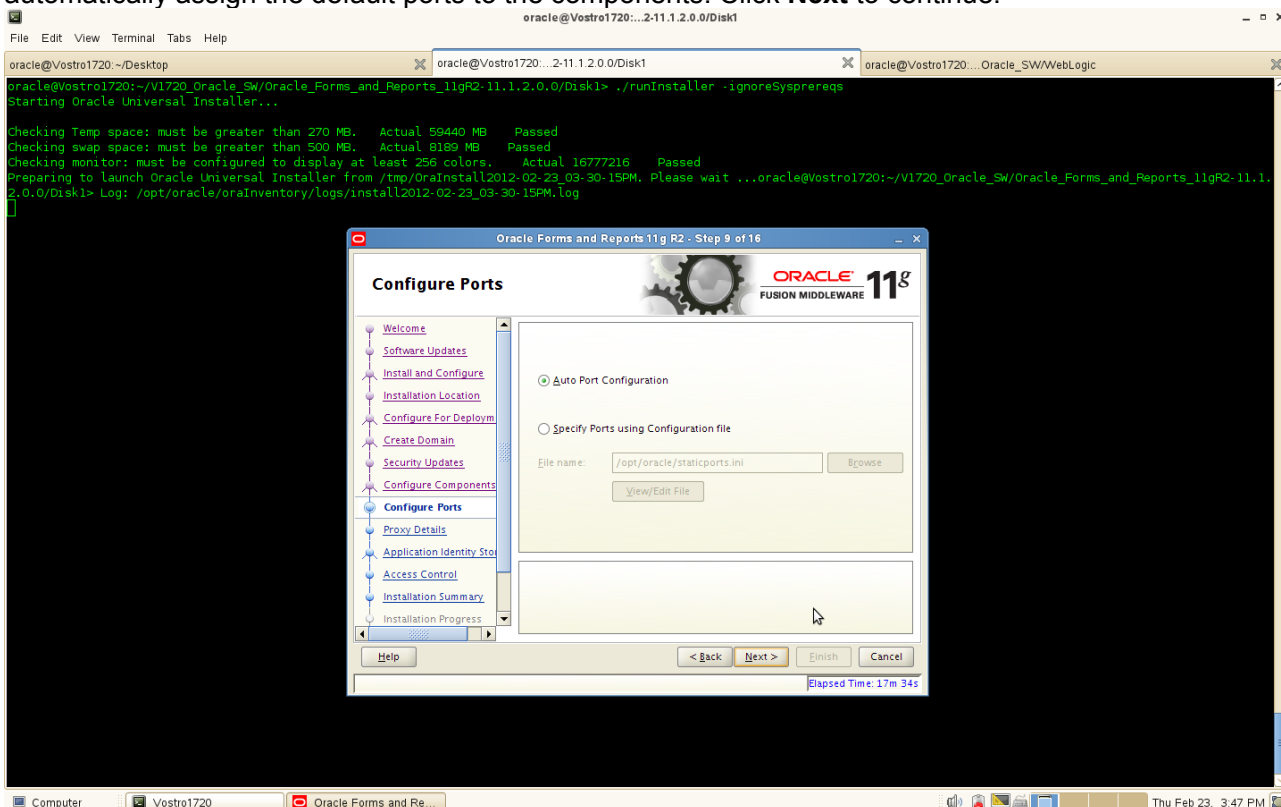
Click **Yes** to confirm that you do not want to register for security updates.

)

10). Configure Components. This screen shows the products and components that are available for configuration. What appears on this screen depends on what you selected on the **Configuration Type** and **Select Domain**. Click **Next** to continue.

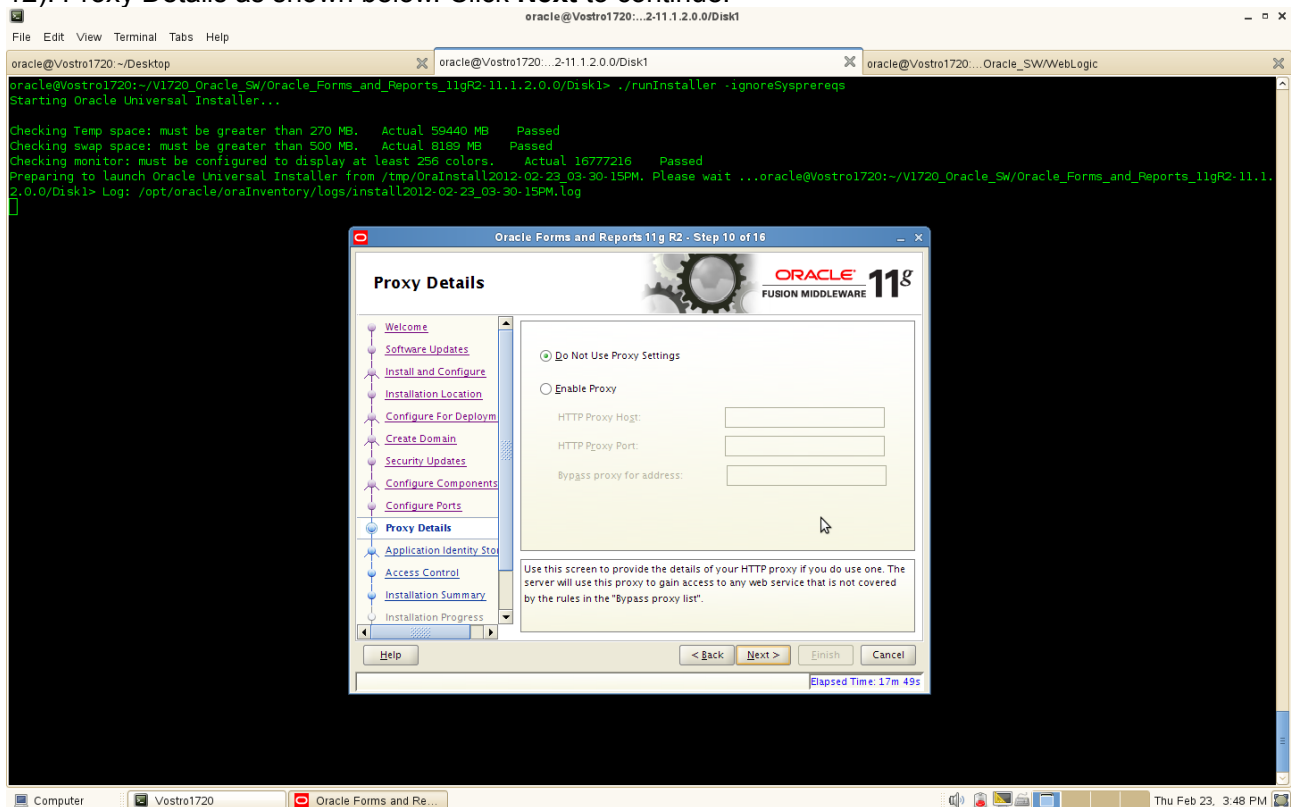


11). Configuration Port as shown below. Select **Auto Port Configuration** if you want the installer to automatically assign the default ports to the components. Click **Next** to continue.



(Note: Select **Specify Ports Using Configuration File** if you have already created a port configuration file that specifies the port numbers that you want to use for each component. Enter the full part and filename of this file in the Filename field, or click Browse to locate an existing file on your system.)

12). Proxy Details as shown below. Click **Next** to continue.



(Notes:

This screen is only visible if Oracle Reports was selected on the Configure Components Screen.

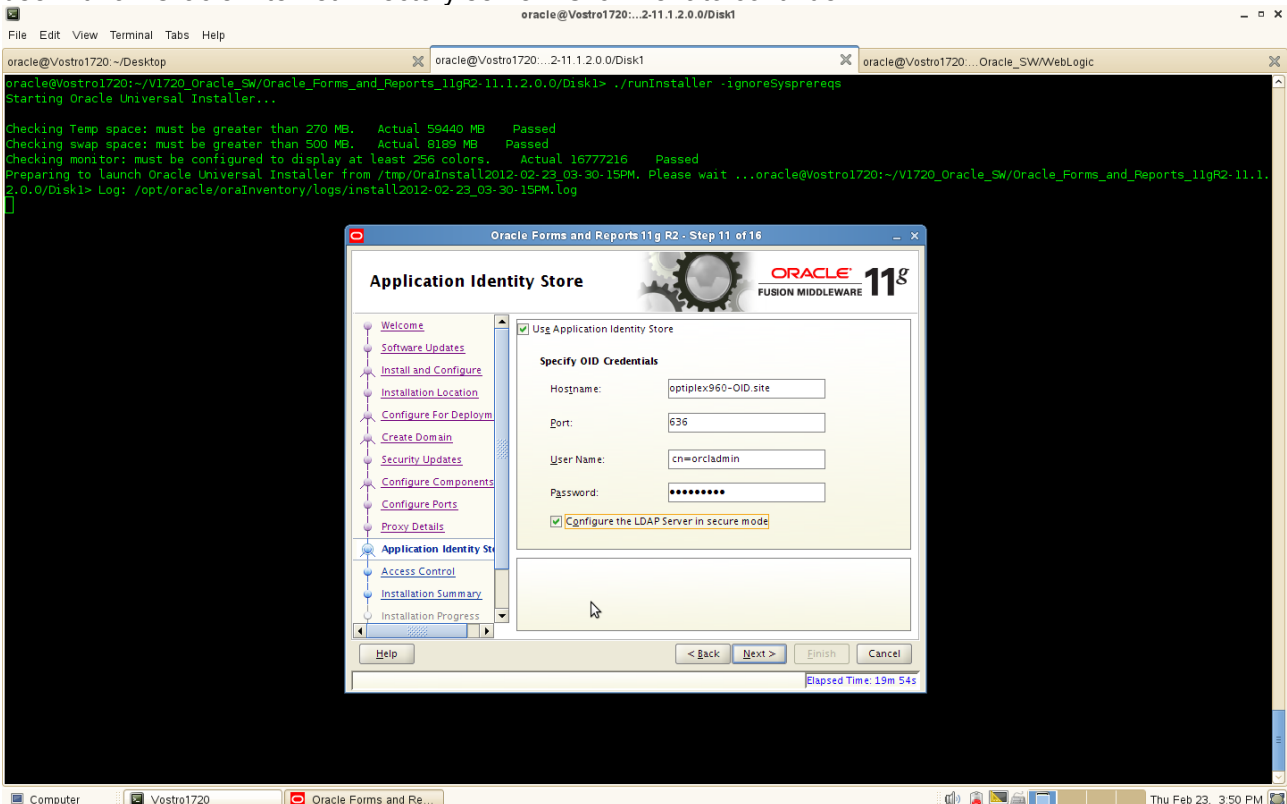
If your computer is located behind a firewall you may need to route outgoing HTTP connections through a proxy server. If you have a direct connection to the Internet or if you do not wish to configure a proxy server at this time select **“Do Not Use Proxy Settings”** and click **Next**.

If you are configuring a proxy server, you must provide the following information:

- HTTP Proxy Host
Enter the host name of your proxy server.
- HTTP Proxy Port
Enter the port number of your proxy server.
- Bypass proxy for address
Enter addresses for which the proxy server should be bypassed. Use commas (,) to separate multiple entries. Domains may be listed using asterisk (*). For example:
.us.oracle.com,.in.oracle.com

)

13). Application Identity Store. Select **Use Application Identity Store** to configure your components for use with an Oracle Internet Directory server. Click **Next** to continue.



- Hostname

Enter the host name of your Oracle Internet Directory server.

- Port

Enter the port number of your Oracle Internet Directory server. If you do not know the port number, you can run the `netstat -an` command from the command line to see the port numbers currently being used.

- User Name

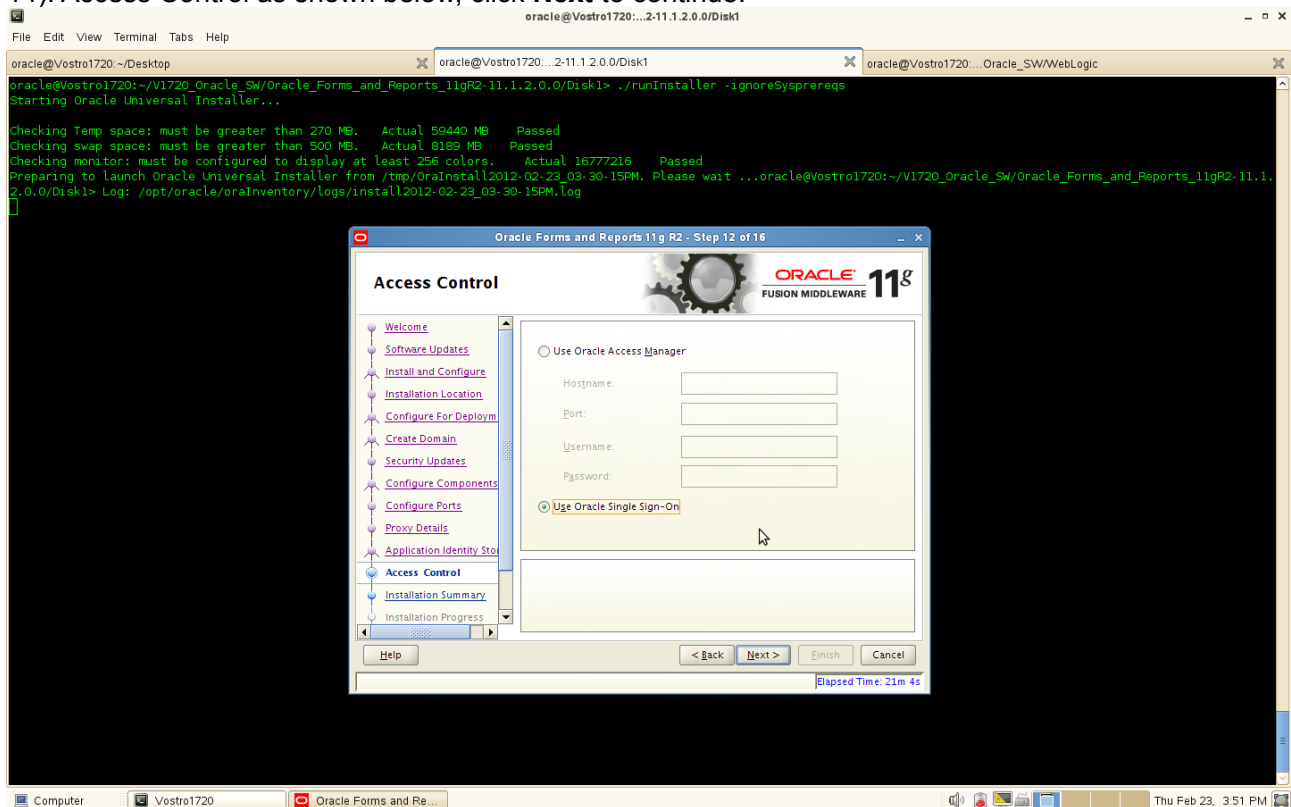
Enter an existing Oracle Internet Directory user name with superuser privileges. The default user name is `cn=orcladmin`.

- Password

Enter the Oracle Internet Directory user password.

Select **Configure the LDAP Server in secure mode** to configure the LDAP server in secure mode. Be sure to specify the secure port number in the Port field if you select this option.

14). Access Control as shown below, click **Next** to continue.



- Hostname

Enter the host name where your Oracle Access Manager server is running.

- Port

Enter the port number of your Oracle Access Manager server.

- User Name

Enter the Oracle Access Manager Administrator user name.

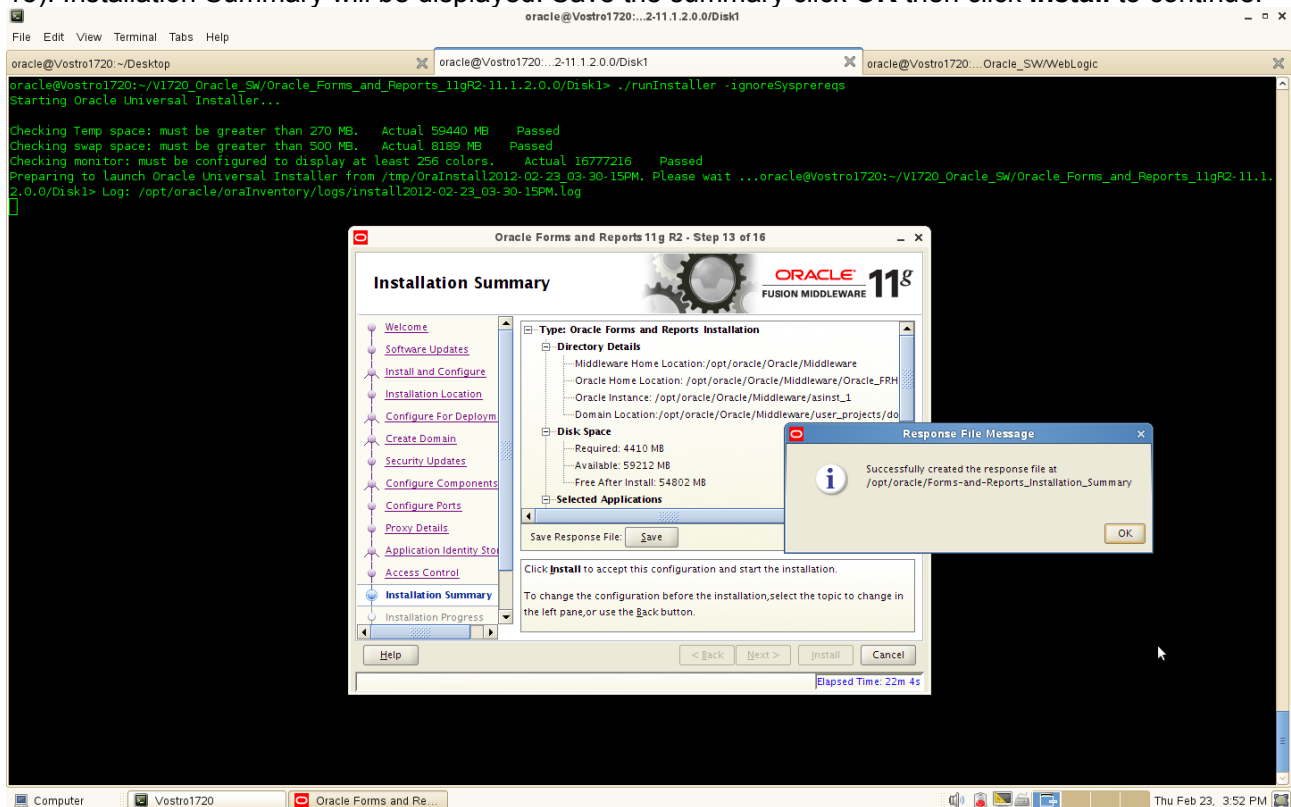
- Password

Enter the Oracle Access Manager Administrator user password.

Select **Use Oracle Access Manager** to configure Oracle Access Manager as the tool to perform authentication.

Select **Use Oracle Single Sign-On** to configure your existing Oracle Single Sign-On as the tool to perform authentication. If you select this option, you will not need to fill out any additional credentials as the Oracle Internet Directory credentials provided on the **Application Identity Store** screen will be used.

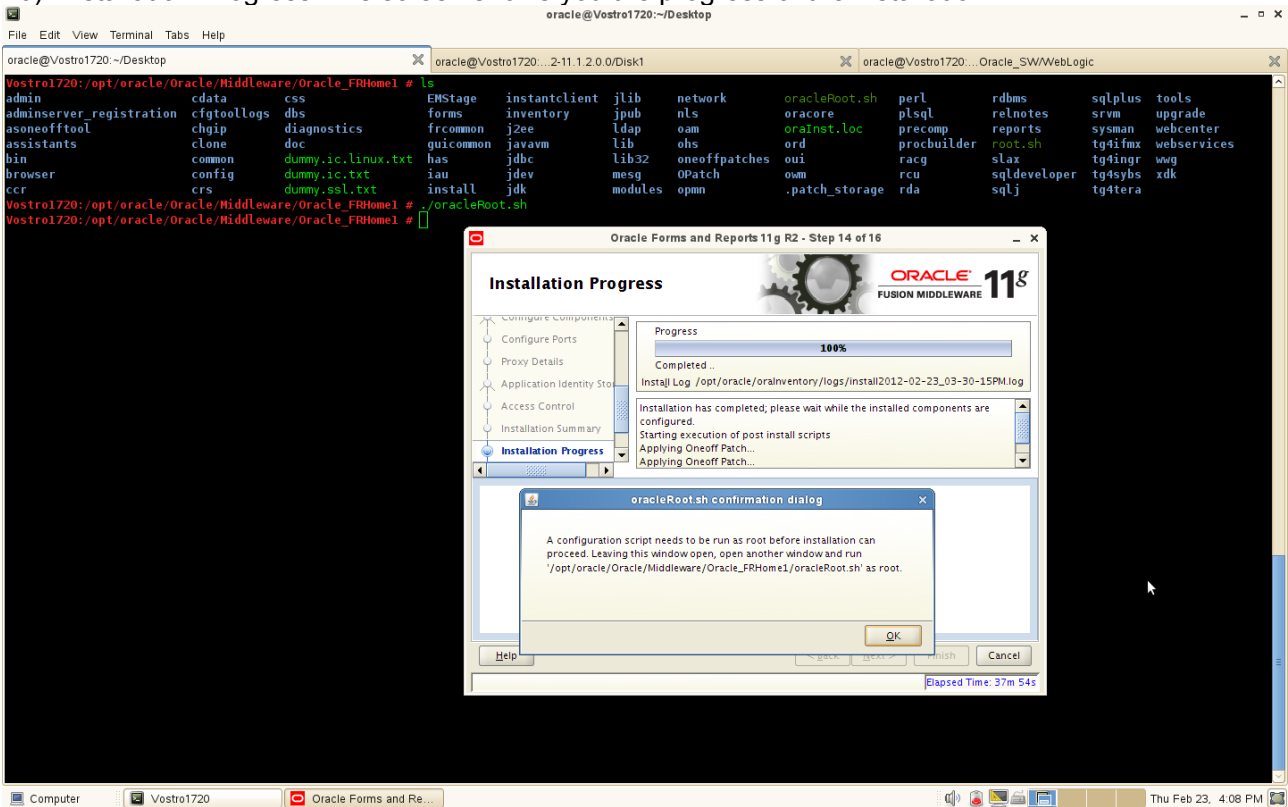
15). Installation Summary will be displayed. Save the summary click **OK** then click **Install** to continue.



Review information on this screen carefully, and take one of the following actions:

- If you want to make any changes to the configuration before starting the installation, use the navigation pane to select the Installer screen you want to return to and edit.
- If you are satisfied with the information, click **Install** to begin the installation procedure.
- If you want to save this configuration to a text file (called a response file), click **Save**. The resulting response file can be used later if you choose to perform the same installation from the command line.

16). Installation Progress. This screen shows you the progress of the installation.



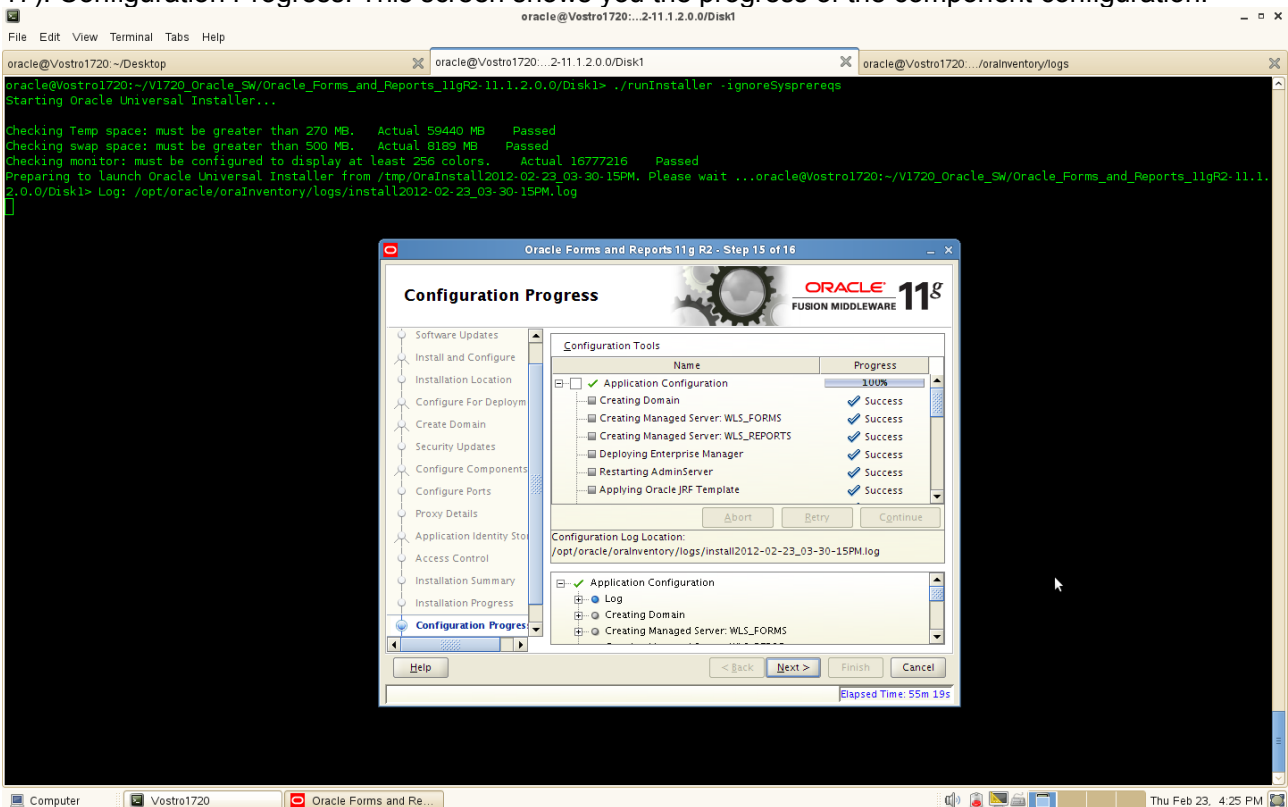
If you are installing on a LINUX system, you may be asked to run the **ORACLE_HOME/oracleRoot.sh** script as root user before the installation is completed:

This script sets up the proper permissions for the files and directories being installed.

If you want to quit before the installation is completed, click **Cancel**. Doing so will result in a partial installation; the portion of the software that was installed on your system before you click **Cancel** will remain on your system, and you will have to remove it manually.

After the installation is complete, click **Next** to continue.

17). Configuration Progress. This screen shows you the progress of the component configuration.



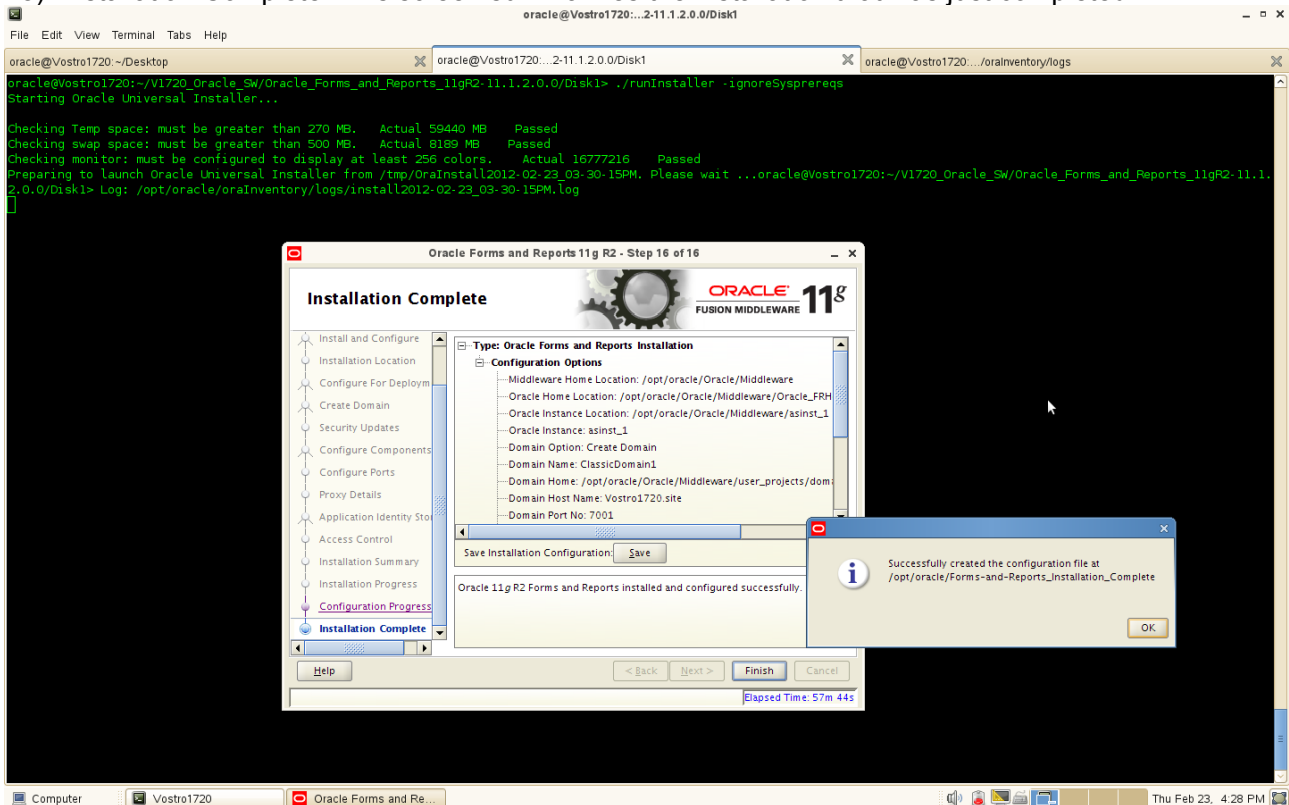
If there is a problem, a short error message appears in the bottom portion of the screen. Fix the error and click **Retry** to try again.

If you want to ignore the error and warning messages and continue with the installation, click **Continue**.

Click **Abort** to stop prerequisite checking for all components.

If you want to quit before the installation is completed, click **Cancel**.

18). Installation Complete. This screen summarizes the installation that was just completed.



The end of the summary information on this screen contains the various URLs to access the Administration Console as well as your installed products. You should write these URLs down so you can access your products later.

(Note:

This summary information does not appear on the Installation Complete screen if you chose **Install Software - Do Not Configure** on the **Installation Type**.

Or, you can click **Save** to save your configuration information to a file. This information includes port numbers, installation directories, disk space usage, URLs, and component names which you may need at a later time.

Click **Finish** to dismiss the screen.

The Oracle Forms and Reports 11gR2 installation and configuration are completed, a installation configuration file as following:

Type: Oracle Forms and Reports Installation

Configuration Options

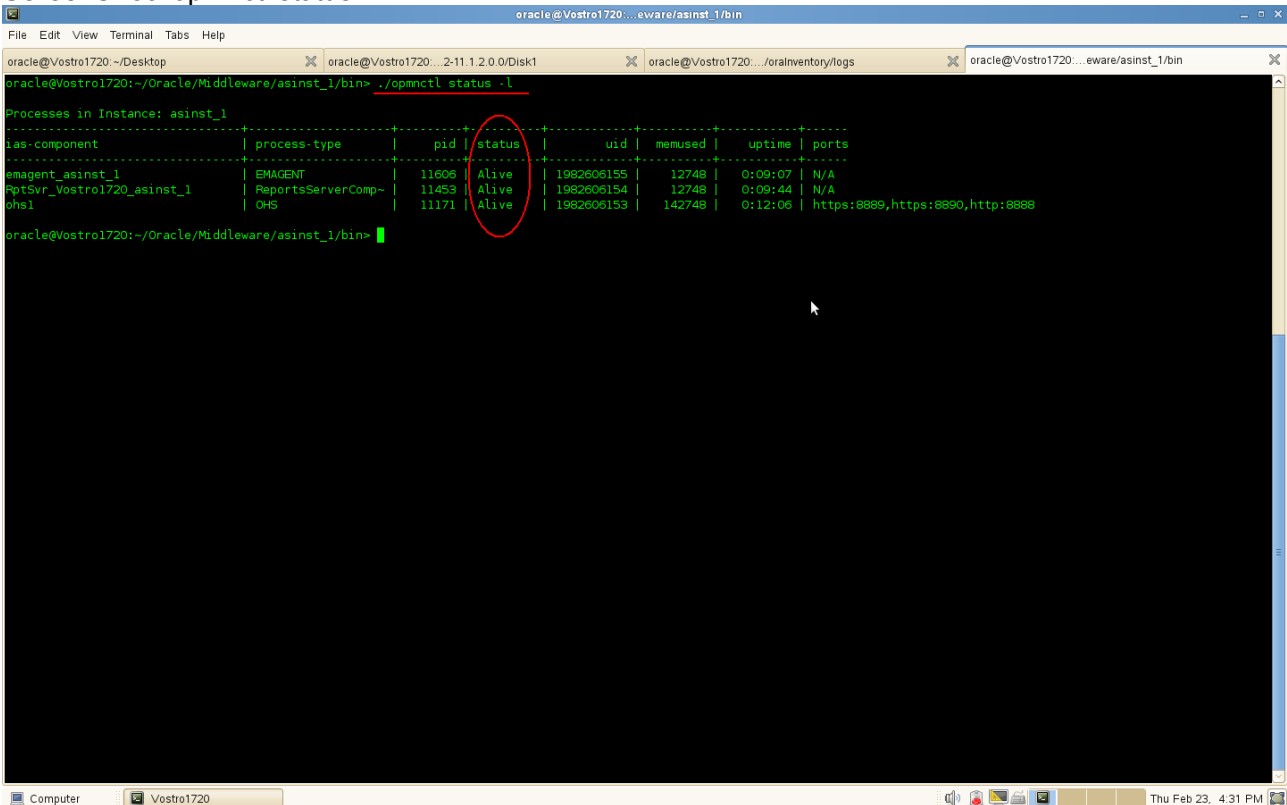
Middleware Home Location: /opt/oracle/Oracle/Middleware
Oracle Home Location: /opt/oracle/Oracle/Middleware/Oracle_FRHome1
Oracle Instance Location: /opt/oracle/Oracle/Middleware/asinst_1
Oracle Instance: asinst_1
Domain Option: Create Domain
Domain Name: ClassicDomain1
Domain Home: /opt/oracle/Oracle/Middleware/user_projects/domains/ClassicDomain1
Domain Host Name: Vostro1720.site
Domain Port No: 7001
User Name: weblogic1
Automatic Port Detection: true
Administrator Console: <http://Vostro1720.site:7001/console>
EM Console: <http://Vostro1720.site:7001/em>
EMAgent URL: <http://Vostro1720.site:5155/emd/main>
Forms URL: <http://Vostro1720.site:8888/forms/frmservlet>
Reports URL: <http://Vostro1720.site:8888/reports/rwservlet>

Oracle Forms and Reports 11gR2 Post-install Tests

1. Check that all the instance processes are up.

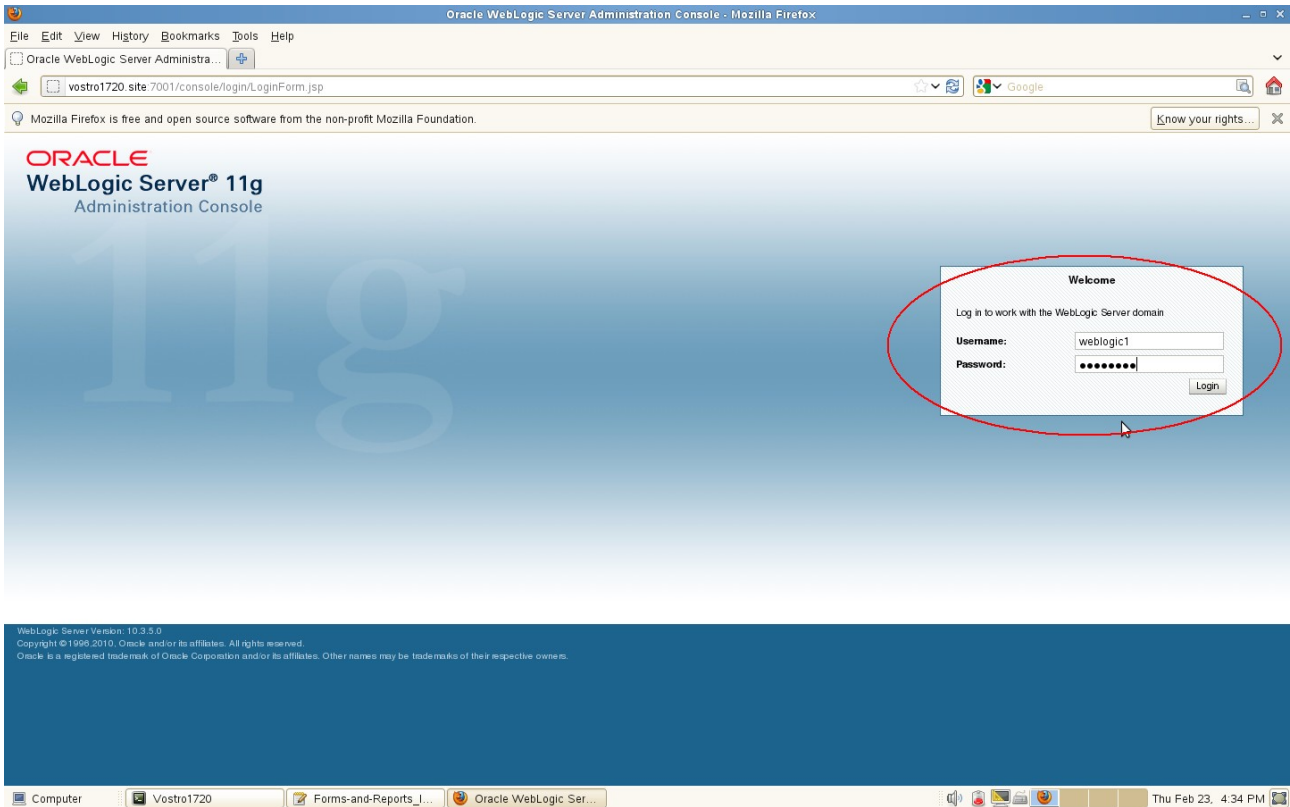
a. Go to <INSTANCE_HOME>/bin and run the command “./opmnctl status -l” to see the status of the processes.

Screenshot: opmnctl status

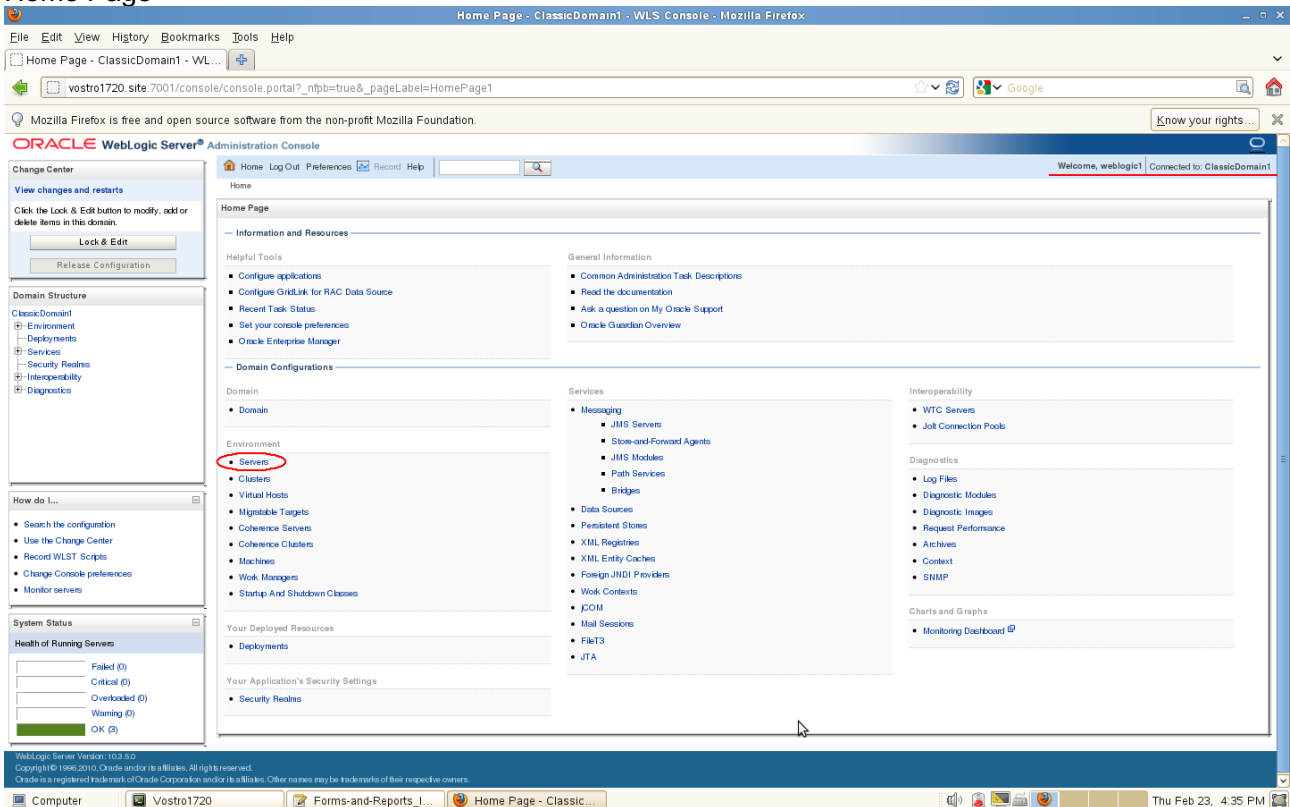


```
oracle@Vostro1720:~/Oracle/Middleware/asinst_1/bin$ ./opmnctl status -l
Processes in Instance: asinst_1
-----
ias-component | process-type | pid | status | uid | memused | uptime | ports
-----
emagent_asinst_1 | EMAGENT | 11606 | Alive | 1982606155 | 12748 | 0:09:07 | N/A
RptSvr_Vostro1720_asinst_1 | ReportsServerComp~ | 11453 | Alive | 1982606154 | 12748 | 0:09:44 | N/A
ohs1 | OHS | 11171 | Alive | 1982606153 | 142748 | 0:12:06 | https:8889,https:8890,http:8888
oracle@Vostro1720:~/Oracle/Middleware/asinst_1/bin$
```

b. Access the Weblogic Admin server URL http://<hostname>:<domain_port>/console and check that the domain managed server are all up.



Home Page



Click **Server** button to check Servers status.

The screenshot shows the Oracle WebLogic Server Administration Console. The main content area is titled 'Summary of Servers' and contains a table of servers. A red oval highlights this table. The table has columns for Name, Cluster, Machine, State, Health, and Listen Port. The servers listed are AdminServer(admin), WLS_FORMS, and WLS_REPORTS, all in a RUNNING state with OK health.

Name	Cluster	Machine	State	Health	Listen Port
AdminServer(admin)		Vostro1720.site	RUNNING	OK	7001
WLS_FORMS	cluster_forms	Vostro1720.site	RUNNING	OK	9001
WLS_REPORTS	cluster_reports	Vostro1720.site	RUNNING	OK	9002

c. Access the Enterprise Manager URL: http://<hostname>:<domain_port>/em (if this was selected and installed) and check that the instance is completely up.

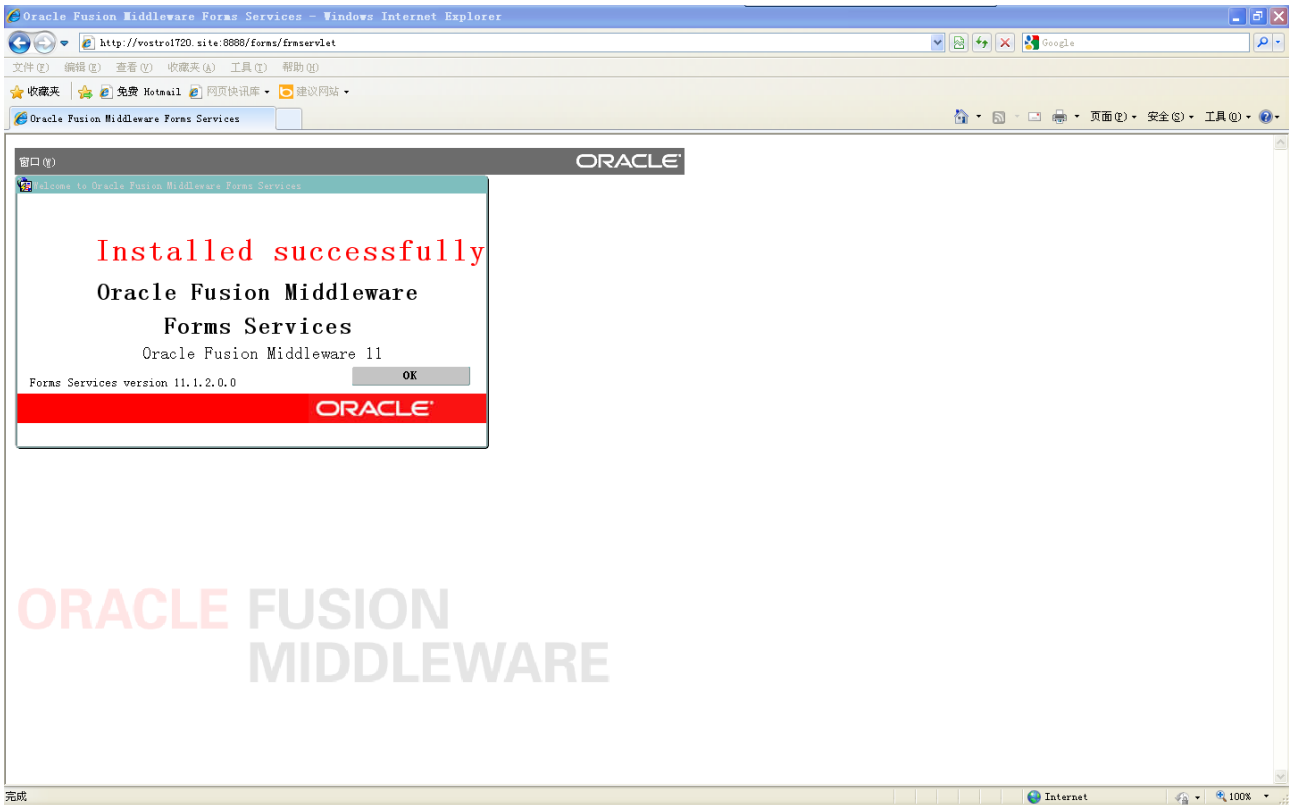
The screenshot shows the Oracle Enterprise Manager 11g Fusion Middleware Control login page. A red oval highlights the login form, which includes fields for User Name (weblogic1) and Password, and a Login button.

EM Home Page

2. Access the EM Agent URL: <http://hostname:5155/emd/main> , a page as shown below.

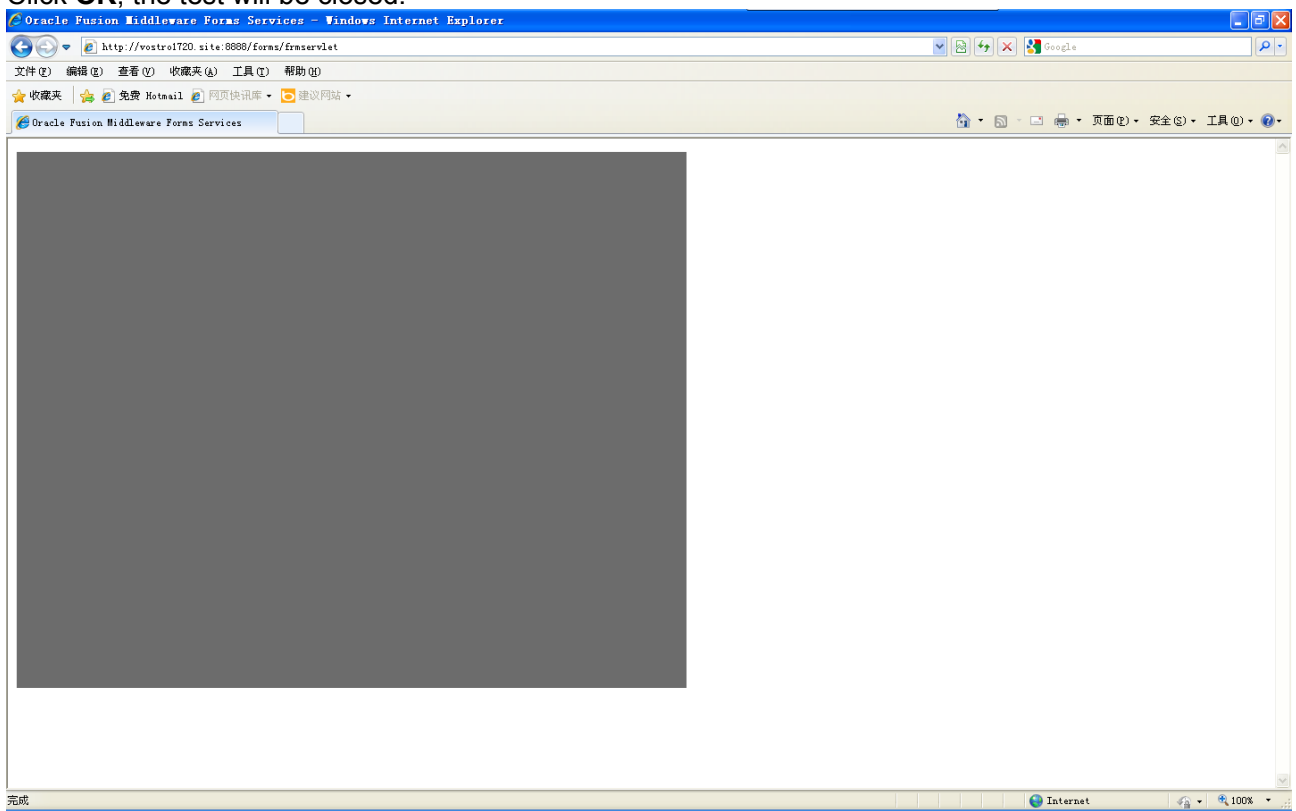
3. Tests for Forms

a. Access the Forms URL http://hostname:<webcache_port>/forms/frmservlet, a page similar to the one below will be displayed.



(**Note:** The firefox browser cannot display Forms servlet page, although added java plugin. IE looks good.)

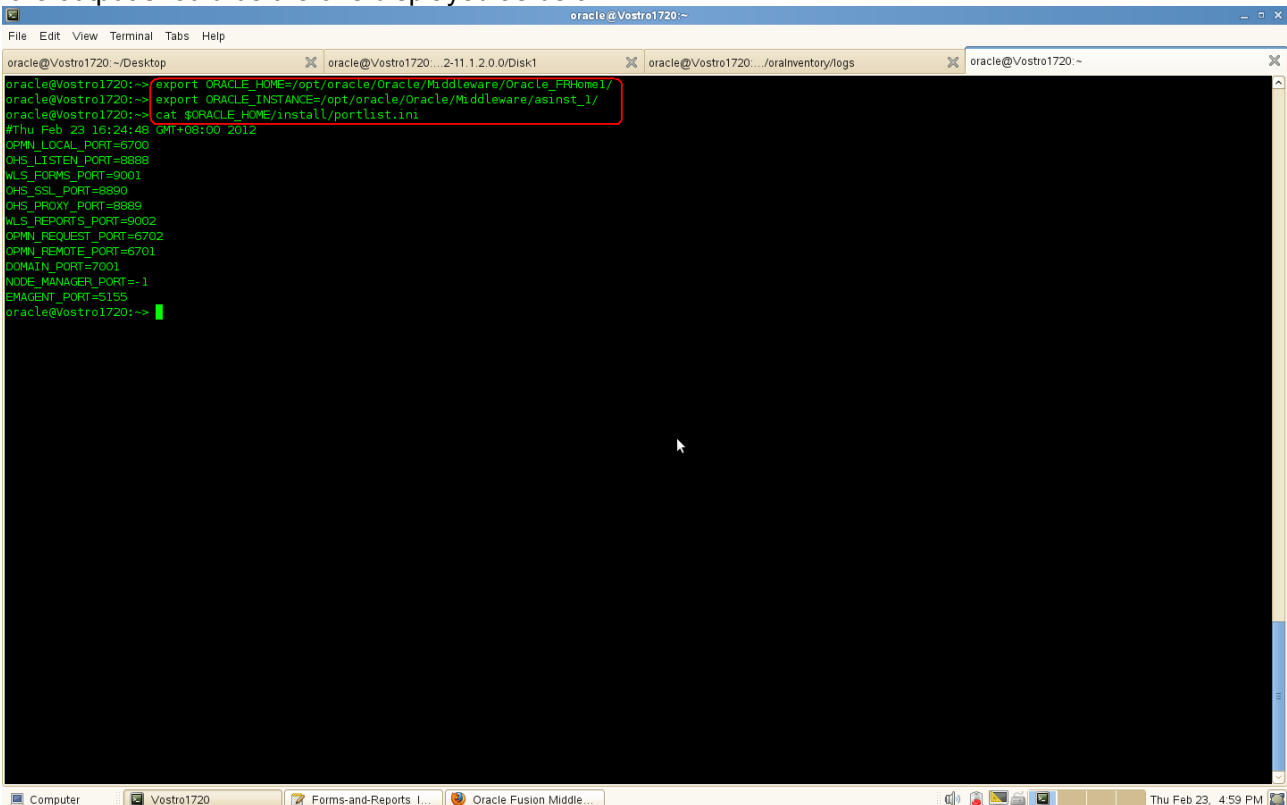
Click **OK**, the test will be closed.



b. Forms Demo:

(**Note:** Before proceeding with the following tests for Forms Demo, please set ORACLE_HOME and ORACLE_INSTANCE environment variable as provided during installation.)

To find out the Oracle Fusion Middleware Forms and Reports listened ports with command, “\$ cat \$ORACLE_HOME/install/portlist.ini”, the output should be the one displayed as below.



```
oracle@Vostro1720:~/Desktop
oracle@Vostro1720:~/Desktop
oracle@Vostro1720:~/Desktop
oracle@Vostro1720:~/Desktop
oracle@Vostro1720:~/Desktop
export ORACLE_HOME=/opt/oracle/Oracle/Middleware/Oracle_FRHome1
export ORACLE_INSTANCE=/opt/oracle/Oracle/Middleware/asinst_1/
cat $ORACLE_HOME/install/portlist.ini
#Thu Feb 23 16:24:48 GMT+08:00 2012
OPMN_LOCAL_PORT=6700
OHS_LISTEN_PORT=8888
WLS_FORMS_PORT=9001
OHS_SSL_PORT=8890
OHS_PROXY_PORT=8889
WLS_REPORTS_PORT=9002
OPMN_REQUEST_PORT=6702
OPMN_REMOTE_PORT=6701
OPMN_PORT=7001
NODE_MANAGER_PORT=-1
EMAGENT_PORT=5155
oracle@Vostro1720:~>
```

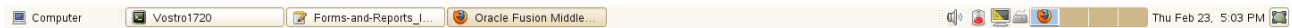
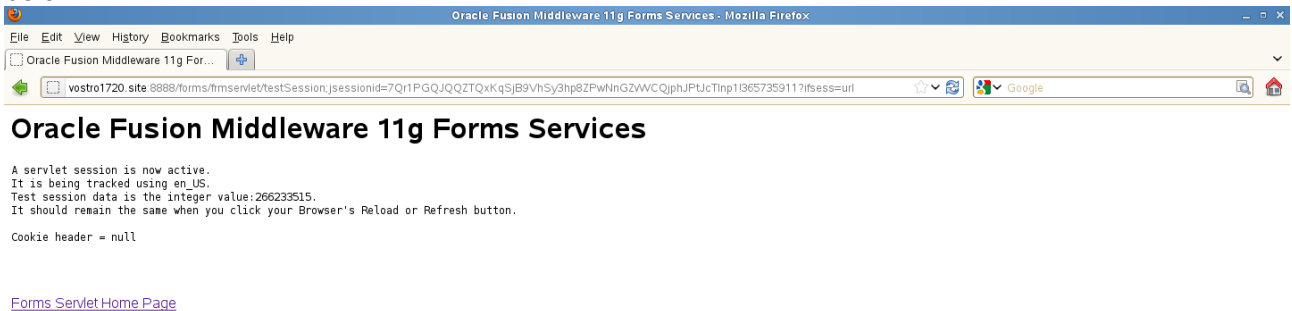
c. Forms Runtime – Listener Servlet:

Invoke Forms Listener Servlet Admin URL:

http://machine.domain:webcache_port/forms/frmservlet/admin

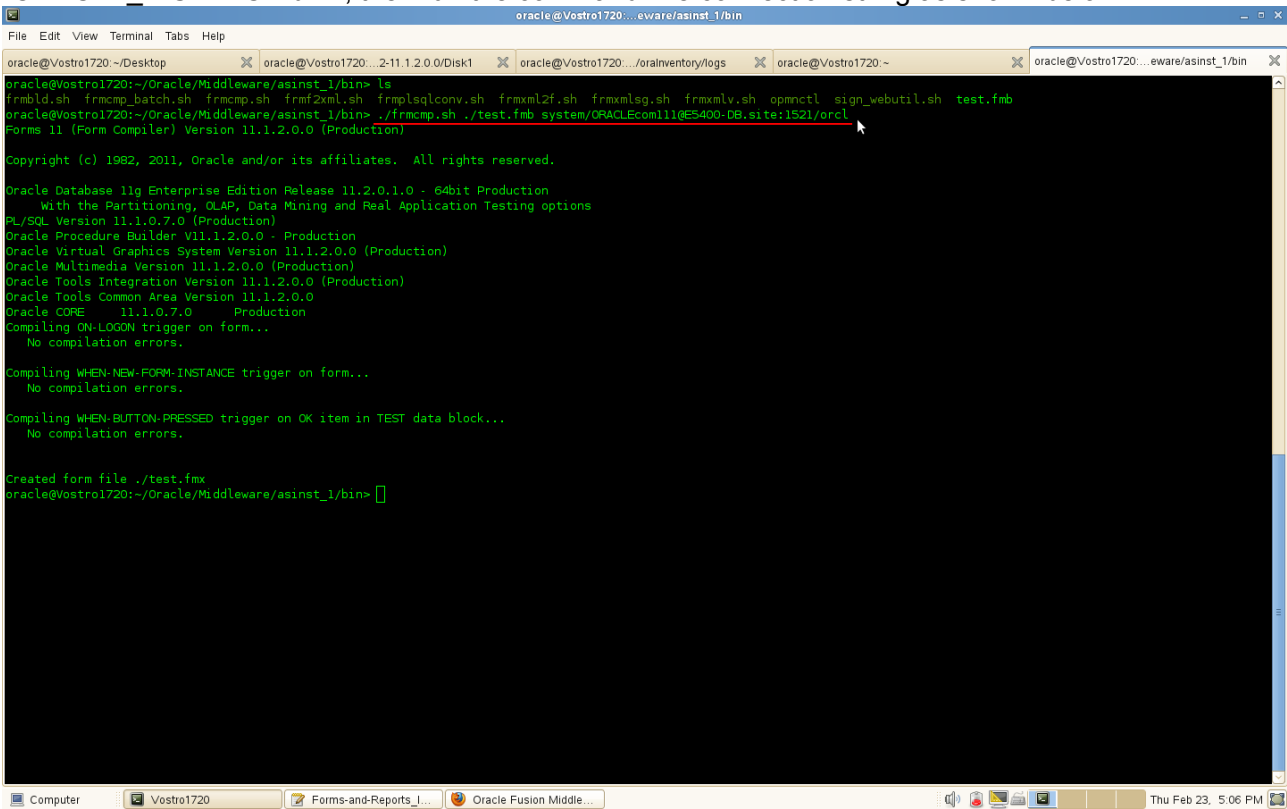


Click **Test servlet engine session support**. Then the session details will be displayed as shown below.



d. Forms Generator Test

The file test.fmb should present in "\$ORACLE_HOME/forms". You can copy it to "ORACLE_INSTANCE/bin", then run the command line connection string as shown below.



```
oracle@Vostro1720:~/Oracle/Middleware/asinst_1/bin> ls
frmblld.sh frmcmp_batch.sh frmcmp.sh frmf2xml.sh frmplsqlconv.sh frmxml2f.sh frmxmlsg.sh frmxmlv.sh opmctl sign_webutil.sh test.fmb
oracle@Vostro1720:~/Oracle/Middleware/asinst_1/bin> ./frmcmp.sh ./test.fmb system/ORAACLEcom11@ES400-DB.site:1521/orcl
Forms 11 (Form Compiler) Version 11.1.2.0.0 (Production)

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Oracle Database 11g Enterprise Edition Release 11.2.0.1.0 - 64bit Production
  With the Partitioning, OLAP, Data Mining and Real Application Testing options
PL/SQL Version 11.1.0.7.0 (Production)
Oracle Procedure Builder V11.1.2.0.0 - Production
Oracle Virtual Graphics System Version 11.1.2.0.0 (Production)
Oracle Multimedia Version 11.1.2.0.0 (Production)
Oracle Tools Integration Version 11.1.2.0.0 (Production)
Oracle Tools Common Area Version 11.1.2.0.0
Oracle CORE 11.1.0.7.0 Production
Compiling ON-LOGON trigger on form...
No compilation errors.

Compiling WHEN-NEW-FORM-INSTANCE trigger on form...
No compilation errors.

Compiling WHEN-BUTTON-PRESSED trigger on OK item in TEST data block...
No compilation errors.

Created form file ./test.fmx
oracle@Vostro1720:~/Oracle/Middleware/asinst_1/bin>
```

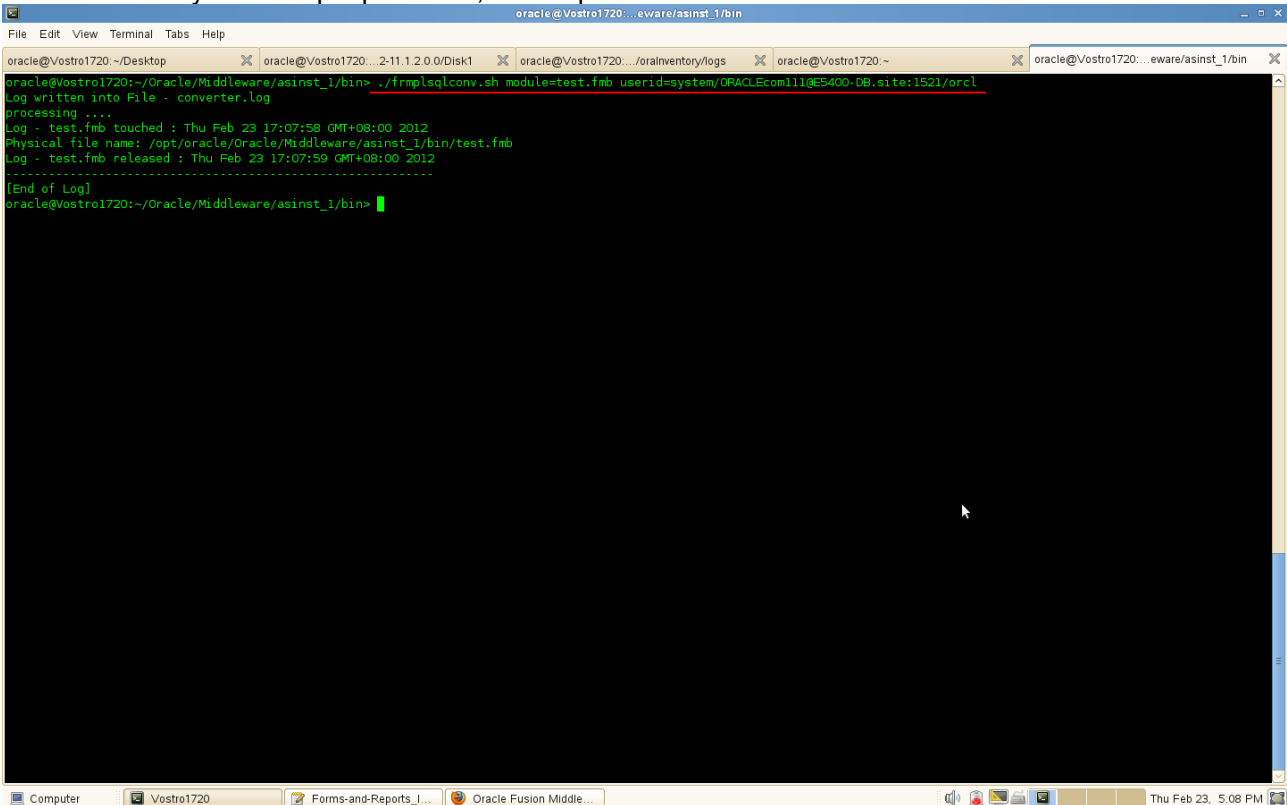
(Note: For this test needs to enable Forms and Reports server known DB Server by using Hostname.)

e. Forms Migration Tool Test

The file test.fmb should present in "\$ORACLE_HOME/forms". You can copy it to "ORACLE_INSTANCE/bin" then run the command line connection string as below:

"ORACLE_INSTANCE/bin/frmpsqlconv.sh module=test.fmb userid=your-oracle-db -username/your-oracle-db-user-password@your-oracle-db-hostname:port/service-name"

Screenshot: By run ./frmpsqlconv.sh , the output as shown below.



4. Tests for Reports

a. Check Reports standalone Server:

Type **./opmnctl status -l** from the bin folder of ORACLE_INSTANCE. Then Start-restart server.

Screenshot: opmnctl tests

```

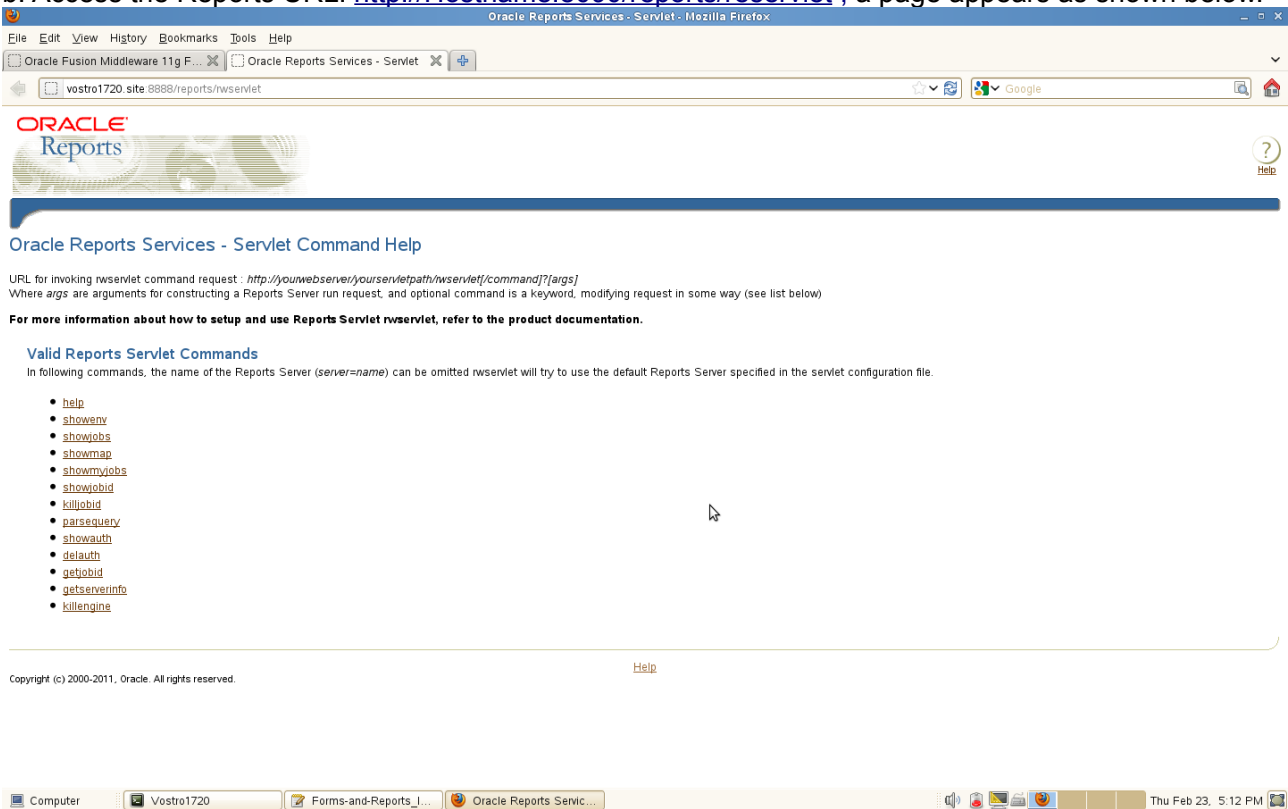
oracle@Vostro1720:~/Oracle/Middleware/asinst_1/bin> ./opmnctl status -l
Processes in Instance: asinst_1
-----+-----+-----+-----+-----+-----+-----+-----+
ias-component | process-type | pid | status | uid | memused | uptime | ports
-----+-----+-----+-----+-----+-----+-----+-----+
emagent_asinst_1 | EMAGENT | 11606 | Alive | 1982606155 | 12748 | 0:48:32 | N/A
RptSvr_Vostro1720_asinst_1 | ReportsServerComp~ | 11453 | Alive | 1982606154 | 12748 | 0:49:09 | N/A
ohs1 | OHS | 11171 | Alive | 1982606153 | 142748 | 0:51:31 | https:8889,https:8890,http:8888

oracle@Vostro1720:~/Oracle/Middleware/asinst_1/bin> ./opmnctl stopproc ias-component=RptSvr_Vostro1720_asinst_1
opmnctl stopproc: stopping opmn managed processes...
oracle@Vostro1720:~/Oracle/Middleware/asinst_1/bin> ./opmnctl status -l
Processes in Instance: asinst_1
-----+-----+-----+-----+-----+-----+-----+-----+
ias-component | process-type | pid | status | uid | memused | uptime | ports
-----+-----+-----+-----+-----+-----+-----+-----+
emagent_asinst_1 | EMAGENT | 11606 | Alive | 1982606155 | 12748 | 0:49:25 | N/A
RptSvr_Vostro1720_asinst_1 | ReportsServerComp~ | N/A | Down | N/A | N/A | N/A | N/A
ohs1 | OHS | 11171 | Alive | 1982606153 | 142748 | 0:52:24 | https:8889,https:8890,http:8888

oracle@Vostro1720:~/Oracle/Middleware/asinst_1/bin> ./opmnctl startproc ias-component=RptSvr_Vostro1720_asinst_1
opmnctl startproc: starting opmn managed processes...
oracle@Vostro1720:~/Oracle/Middleware/asinst_1/bin> ./opmnctl status -l
Processes in Instance: asinst_1
-----+-----+-----+-----+-----+-----+-----+-----+
ias-component | process-type | pid | status | uid | memused | uptime | ports
-----+-----+-----+-----+-----+-----+-----+-----+
emagent_asinst_1 | EMAGENT | 11606 | Alive | 1982606155 | 12748 | 0:49:55 | N/A
RptSvr_Vostro1720_asinst_1 | ReportsServerComp~ | 14089 | Alive | 1982606157 | 12748 | 0:00:16 | N/A
ohs1 | OHS | 11171 | Alive | 1982606153 | 142748 | 0:52:54 | https:8889,https:8890,http:8888

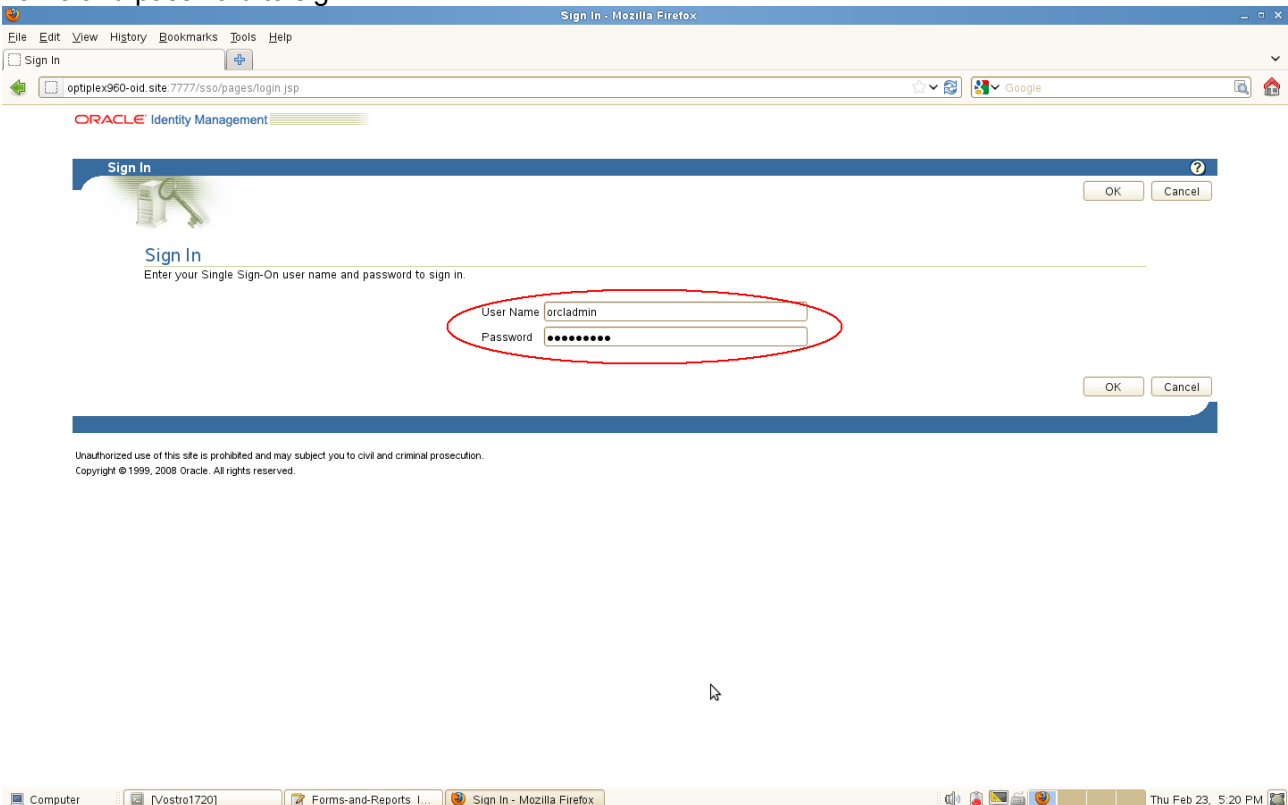
oracle@Vostro1720:~/Oracle/Middleware/asinst_1/bin>
    
```

b. Access the Reports URL: <http://Hostname:8090/reports/rwresvlet> , a page appears as shown below.



c. Servlet URL (URL's should show appropriate outputs)

1) Check URL <http://<hostname>:<port>/reports/rwresvlet/showenv> . Enter your Single Sign-On user name and password to sign in.



The Servlet Environment will be displayed as shown below.

The screenshot shows the Oracle Reports Servlet Environment Variables page. The browser address bar shows the URL: `vostro1720.site:8888/reports/rwservlet/showenv`. The page title is "Reports Servlet Environment Variables 11.1.2.0.0". The security mode is "Secure".

HTTP Environment Variables 11.1.2.0.0

```

SERVER_NAME      vostro1720.site
SERVER_PORT      8888
SCRIPT_NAME      /rwservlet
SERVER_PROTOCOL  HTTP/1.1
SERVER_SOFTWARE  undefined
GATEWAY_INTERFACE undefined
SERVER_PORT_SECURE undefined
ACCEPT          text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
REQUEST_METHOD   GET
REMOTE_HOST      Vostro1720.site
REMOTE_ADDR      192.168.1.13
REMOTE_USER      ORCLADMIN
AUTH_TYPE        undefined
PATH_INFO        showenv
QUERY_STRING     undefined
PATH_TRANSLATED  undefined
CONTENT_LENGTH   undefined
CONTENT_TYPE     undefined
HTTP_COOKIE      OHS-Vostro1720.site-8888=3E1205D4B31F6EC9605C55854846DB7632A593F1D66C97D75CE9F91442D9EE2E7C574FA417AA932B7B5EACDBDEE21BC78434D5736CBF08CFB78DA64A12D0238FB4D6B9591998F597869CBD797DE
AUTHORIZATION    undefined
USER-AGENT       Mozilla/5.0 (X11; Linux x86_64; rv:10.0) Gecko/20100101 Firefox/10.0
REMOTE_IDENT     undefined
REFERER          http://optiplex960-oid.site:7777/soo/pages/login.jsp
    
```

Below the variables, there are links for "Oracle Reports Services - Servlet Environment Variables" and "Oracle Reports Services - Server and Engine Environment Variables".

Append "showenv?server=<server name>" to the URL. The test page will be displayed as below.

The screenshot shows the Oracle Reports Servlet Environment Variables page with the server parameter added to the URL. The browser address bar shows the URL: `vostro1720.site:8888/reports/rwservlet/showenv?server=RptSvr_Vostro1720_asinst_1`. The page title is "Reports Servlet Environment Variables 11.1.2.0.0". The security mode is "Secure".

HTTP Environment Variables 11.1.2.0.0

```

SERVER_NAME      vostro1720.site
SERVER_PORT      8888
SCRIPT_NAME      /rwservlet
SERVER_PROTOCOL  HTTP/1.1
SERVER_SOFTWARE  undefined
GATEWAY_INTERFACE undefined
SERVER_PORT_SECURE undefined
ACCEPT          text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
REQUEST_METHOD   GET
REMOTE_HOST      Vostro1720.site
REMOTE_ADDR      192.168.1.13
REMOTE_USER      ORCLADMIN
AUTH_TYPE        undefined
PATH_INFO        showenv
QUERY_STRING     server=RptSvr_Vostro1720_asinst_1
PATH_TRANSLATED  undefined
CONTENT_LENGTH   undefined
CONTENT_TYPE     undefined
HTTP_COOKIE      OHS-Vostro1720.site-8888=3E1205D4B31F6EC9605C55854846DB7632A593F1D66C97D75CE9F91442D9EE2E7C574FA417AA932B7B5EACDBDEE21BC78434D5736CBF08CFB78DA64A12D0238FB4D6B9591998F597869CBD797DE
AUTHORIZATION    undefined
USER-AGENT       Mozilla/5.0 (X11; Linux x86_64; rv:10.0) Gecko/20100101 Firefox/10.0
REMOTE_IDENT     undefined
REFERER          undefined
    
```

The "server" variable is now present in the output, with the value `server=RptSvr_Vostro1720_asinst_1`.

(Note: Get Reports standalone Server name: By run `./opmnctl status -l` from the bin folder of ORACLE_INSTANCE.

)

2). Check URL:<http://<Hostname>:<port>/reports/rwservlet/showjobs> , a page appears as shown below.

Oracle Reports Services - Servlet - Mozilla Firefox

Oracle Reports Services - Servlet

vostro1720.site:9888/reports/rwservlet/showjobs

ORACLE Reports

Help

Reports Server Queue Status

Security Mode **Secure Queue** on server **rep_wis_reports_vostro1720_asinst_1**, on Thu Feb 23 17:23:41 GMT+08:00 2012
 To kill a current (enqueued or scheduled) job, click on the status icon for the specific job. Then click on Cancel Job button in next page. To get a cached output of a successfully finished past job, click on the Job Name hyperlink of that job (if available)

View

View

Result

Previous Next

Job ID	Master JobID	Job Type	Job Name	Job Status	Job Owner	Output Type	Output Name	Server Name	Queued At	Started At	Finished At
None											

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Help

Computer Vostro1720 [Forms-and-Reports...] Oracle Reports Servic... Thu Feb 23, 5:23 PM

Append "showjobs?server=<server name>" to the URL. The test page will be displayed as shown below.

Oracle Reports Services - Servlet - Mozilla Firefox

Oracle Reports Services - Servlet

vostro1720.site:9888/reports/rwservlet/showjobs?server=RptSvr_Vostro1720_asinst_1

ORACLE Reports

Help

Reports Server Queue Status

Security Mode **Secure Queue** on server **RptSvr_Vostro1720_asinst_1**, on Thu Feb 23 17:24:00 GMT+08:00 2012
 To kill a current (enqueued or scheduled) job, click on the status icon for the specific job. Then click on Cancel Job button in next page. To get a cached output of a successfully finished past job, click on the Job Name hyperlink of that job (if available)

View

View

Result

Previous Next

Job ID	Master JobID	Job Type	Job Name	Job Status	Job Owner	Output Type	Output Name	Server Name	Queued At	Started At	Finished At
None											

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Help

Computer Vostro1720 [Forms-and-Reports...] Oracle Reports Servic... Thu Feb 23, 5:24 PM

http://vostro1720.site:9888/reports/rwservlet

3). Check URL: <http://<hostname>:<port>/reports/rwervlet/getserverinfo> , the page appears as shown below.

The screenshot shows the Oracle Reports Services Servlet page in Mozilla Firefox. The URL is `vostro1720.site:9888/reports/rwervlet/getserverinfo`. The page displays the Oracle Reports logo and navigation tabs for Performance and Engine. The main content is titled "Reports Server rep_wls_reports_vostro1720_asinst_1 Information".

Server Information:

- Name: `rep_wls_reports_vostro1720_asinst_1`
- Version: `11.1.2.0.0`
- Security Mode: `Secure`
- Running Mode: `In-process`
- Host: `Vostro1720`
- Process Id: `undefined`
- Start Time: `Feb 23, 2012 5:12:51 PM`
- Maximum Queue Size: `1000`

Performance:

- Successful Jobs: `0`
- Current Jobs: `0`
- Future Jobs: `0`
- Transferred Jobs: `0`
- Failed Jobs: `0`
- Response Time(millisecond): `0.0`

Engine Table:

Name	Process Id	Status	Running Job ID	Job Running Time (ms)	Idle Time (seconds)	Jobs Run	Life Remaining (jobs) NLS	Total Running Time (seconds)	Total Idle Time (minutes)
rwEng-0	14295	Ready	n/a	n/a	699	0	50 AMERICAN_AMERICA.WE8ISO8859P1	0	11

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Also append "getserverinfo?server=<server name>" to the URL. The test page will be displayed as shown below.

The screenshot shows the Oracle Reports Services Servlet page in Mozilla Firefox. The URL is `vostro1720.site:9888/reports/rwervlet/getserverinfo?server=RptSvr_Vostro1720_asinst_1`. The page displays the Oracle Reports logo and navigation tabs for Performance and Engine. The main content is titled "Reports Server RptSvr_Vostro1720_asinst_1 Information".

Server Information:

- Name: `rptsvr_vostro1720_asinst_1`
- Version: `11.1.2.0.0`
- Security Mode: `Secure`
- Running Mode: `Stand-alone`
- Host: `Vostro1720`
- Process Id: `14102`
- Start Time: `Feb 23, 2012 5:10:46 PM`
- Maximum Queue Size: `1000`

Performance:

- Successful Jobs: `0`
- Current Jobs: `0`
- Future Jobs: `0`
- Transferred Jobs: `0`
- Failed Jobs: `0`
- Response Time(millisecond): `0.0`

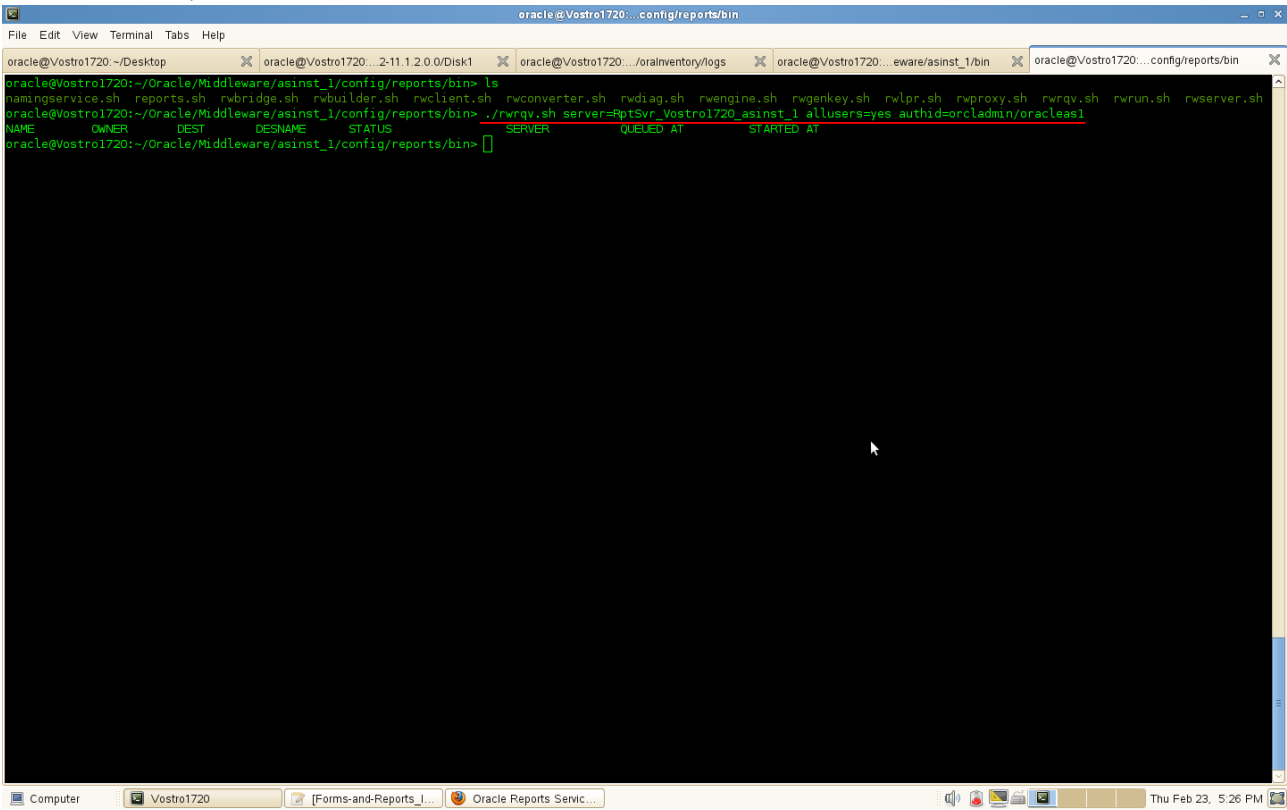
Engine Table:

Name	Process Id	Status	Running Job ID	Job Running Time (ms)	Idle Time (seconds)	Jobs Run	Life Remaining (jobs) NLS	Total Running Time (seconds)	Total Idle Time (minutes)
rwEng-0	14135	Ready	n/a	n/a	836	0	50 AMERICAN_AMERICA.WE8ISO8859P1	0	13

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d. Queue (Jobs should be displayed in the window) Test

Screenshot: Queue command



Environment :

Oracle Forms and Reports 11gR2 11.1.2.0.0 (x86_64)

Database : 11.2.0.1.0 (x86_64)

Oracle Internet Directory 10.1.4.0.1 and Patchset 10.1.4.3 (x86_64)

OS : SLES 11 SP2 GM (x86_64)

End.