

Oracle OBIEE 11.1.1.6.0 step by step installation guide on Linux

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Step 1:

OS: Redhat 5.6 64bit

Download Oracle 11gr2 Software

<http://www.oracle.com/technetwork/database/enterprise-edition/downloads/index.html>

Download OBIEE 11.1.1.6.0 for Linux 64bit

<http://www.oracle.com/technetwork/middleware/bi-enterprise-edition/downloads/bi-downloads-1525270.html>

Download RCU (Repository Creation Utiliy)

<http://www.oracle.com/technetwork/middleware/bi-enterprise-edition/downloads/bi-downloads-1525270.html>

Note: Download 32 bit RCU , you can install on 64bit Linux

Download : Java 7

<http://www.oracle.com/technetwork/java/javase/downloads/jdk7-downloads-1880260.html>

Note: Jdk 7 support for OBIEE 11.1.1.6.0

Download Weblogic Server 10.3.6 generic platform in **Additional Platforms (For 64-bit JVM Support, See Note Above)**

<http://www.oracle.com/technetwork/middleware/weblogic/downloads/wls-main-097127.html>

Step 2: Prepare Linux Machine

Install list of below rpm package

binutils-2.17.50.0.6-14.el5.x86_64.rpm

compat-libstdc++-33-3.2.3-61.i386.rpm
compat-libstdc++-33-3.2.3-61.x86_64.rpm
elfutils-libelf-0.137-3.el5.i386.rpm
elfutils-libelf-0.137-3.el5.x86_64.rpm
elfutils-libelf-devel-0.137-3.el5.i386.rpm
elfutils-libelf-devel-0.137-3.el5.x86_64.rpm
elfutils-libelf-devel-static-0.137-3.el5.i386.rpm
elfutils-libelf-devel-static-0.137-3.el5.x86_64.rpm
gcc-4.1.2-50.el5.x86_64.rpm
gcc-c++-4.1.2-50.el5.x86_64.rpm
glibc-2.5-58.i686.rpm
glibc-2.5-58.x86_64.rpm
glibc-common-2.5-58.x86_64.rpm
glibc-devel-2.5-58.i386.rpm
glibc-devel-2.5-58.x86_64.rpm
glibc-headers-2.5-58.x86_64.rpm
kernel-headers-2.6.18-238.el5.x86_64.rpm
ksh-20100202-1.el5_5.1.x86_64.rpm
libaio-0.3.106-5.i386.rpm
libaio-0.3.106-5.x86_64.rpm
libaio-devel-0.3.106-5.i386.rpm
libaio-devel-0.3.106-5.x86_64.rpm
libgcc-4.1.2-50.el5.i386.rpm
libgcc-4.1.2-50.el5.x86_64.rpm
libstdc++-4.1.2-50.el5.i386.rpm

libstdc++-4.1.2-50.el5.x86_64.rpm
libstdc++-devel-4.1.2-50.el5.x86_64.rpm
make-3.81-3.el5.x86_64.rpm
numactl-devel-0.9.8-11.el5.x86_64.rpm
sysstat-7.0.2-3.el5_5.1.x86_64.rpm
unixODBC-2.2.11-7.1.i386.rpm
unixODBC-2.2.11-7.1.x86_64.rpm
unixODBC-devel-2.2.11-7.1.i386.rpm
unixODBC-devel-2.2.11-7.1.x86_64.rpm
compat-db-4.2.52-5.1.x86_64.rpm
compat-db-4.2.52-5.1.i386.rpm
libXau-devel-1.0.1-3.1.i386.rpm
libXau-devel-1.0.1-3.1.x86_64.rpm
libXmu-1.0.2-5.i386.rpm
libXmu-1.0.2-5.x86_64.rpm
libXp-1.0.0-8.1.el5.i386.rpm
libXp-1.0.0-8.1.el5.x86_64.rpm
libXp-devel-1.0.0-8.1.el5.i386.rpm
libXp-devel-1.0.0-8.1.el5.x86_64.rpm
openmotif22-2.2.3-18.i386.rpm
openmotif22-2.2.3-18.x86_64.rpm
openmotif-2.3.1-5.el5_5.1.i386.rpm
openmotif-2.3.1-5.el5_5.1.x86_64.rpm
redhat-lsb-4.0-2.1.4.el5.i386.rpm
redhat-lsb-4.0-2.1.4.el5.x86_64.rpm

xorg-x11-utils-7.1-2.fc6.x86_64.rpm

Kernel Parameters

Controls the maximum shared segment size, in bytes

kernel.shmmax = 68719476736

Controls the maximum number of shared memory segments, in pages

kernel.shmall = 4294967296

fs.aio-max-nr = 1048576

fs.file-max = 6815744

kernel.shmmni = 4096

semaphores: semmsl, semmns, semopm, semmni

kernel.sem = 250 32000 100 128

net.ipv4.ip_local_port_range = 9000 65500

net.core.rmem_default=4194304

net.core.rmem_max=4194304

net.core.wmem_default=1048576

net.core.wmem_max=1048576

after modified run it

/sbin/sysctl -p

[root@bip ~]# cat /etc/selinux/config

This file controls the state of SELinux on the system.

SELINUX= can take one of these three values:

enforcing - SELinux security policy is enforced.

permissive - SELinux prints warnings instead of enforcing.

disabled - SELinux is fully disabled.

SELINUX=disabled

SELINUXTYPE= type of policy in use. Possible values are:

targeted - Only targeted network daemons are protected.

strict - Full SELinux protection.

SELINUXTYPE=targeted

[root@bip ~]#

[root@bip ~]# tail -10 /etc/security/limits.conf

#ftp hard nproc 0

#@student - maxlogins 4

End of file

oracle soft nproc 2047

oracle hard nproc 16384

oracle soft nofile 4096

oracle hard nofile 65536

obi soft nofile 1024

obi hard nofile 65536

[root@bip ~]# tail -2 /etc/pam.d/login

session required /lib/security/pam_limits.so

session required pam_limits.so

User creation

Oracle Database

```
[root@bip ~]# groupadd oinstall
```

```
[root@bip ~]# groupadd dba
```

```
[root@bip ~]# useradd -g oinstall -G dba oracle
```

```
[root@bip ~]# useradd -g oinstall obi
```

Oracle for Database

OBI for BI Install

```
[root@bip ~]# vi /etc/hosts
```

```
# Do not remove the following line, or various programs
```

```
# that require network functionality will fail.
```

```
127.0.0.1 hostname.domainname hostname
```

```
127.0.0.1 localhost.localdomain localhost
```

Bash profile for Oracle user

```
#Oracle Settings
```

```
TMP=/temp; export TMP
```

```
TEMPDIR=$TMP; export TEMPDIR
```

```
ORACLE_SID=biptest; export ORACLE_SID
```

```
ORACLE_BASE=/u01/app/oracle; export ORACLE_BASE

ORACLE_HOME=/u01/app/oracle/product/11.2.0/dbhome_1; export ORACLE_HOME

JAVA_HOME=/usr/java; export JAVA_HOME

JRE_HOME=/usr/jre1.6.0_26; export JRE_HOME

PATH=/usr/sbin:$PATH; export PATH

PATH=$ORACLE_HOME/bin:/usr/jre1.6.0_26/bin:/usr/sbin:/usr/java/jdk1.7.0_15/bin/java:$PATH;
export PATH

LD_LIBRARY_PATH=$ORACLE_HOME/lib:/usr/lib; export LD_LIBRARY_PATH

CLASSPATH=$ORACLE_HOME/JRE:$ORACLE_HOME/jlib:$ORACLE_HOME/rdbms/jlib; export CLASSPATH
```

```
if [ $USER = "oracle" ]; then

    if [ $SHELL = "/bin/ksh" ]; then

        ulimit -p 16384

        ulimit -n 65536

    else

        ulimit -u 16384 -n 65536

    fi
```

Bash_profile for OBI user

File Descriptor Limit

```
ulimit -n 10240
```

Java Home

```
JAVA_HOME=/usr/java/jdk1.7.0_15
```

```
export JAVA_HOME
```

```
PATH=/usr/java/jdk1.7.0_15/bin:$PATH
```

Local Binary

PATH=\$PATH:\$HOME/bin

Database Parameters

ORACLE_HOME=/u01/app/oracle/product/11.2.0/dbhome_1

export ORACLE_HOME

TNS_ADMIN=\$ORACLE_HOME/network/admin

export TNS_ADMIN

PATH=\$ORACLE_HOME/bin:/opt/bin:\$PATH

export PATH

LD_LIBRARY_PATH=\$ORACLE_HOME/lib32:\$LD_LIBRARY_PATH

export LD_LIBRARY_PATH

Step 3:

Install Oracle Database Software and create new database using DBCA

Here Note it character set should be AL32UTF8

After database creation done. Please make sure listener is up and running

Change the below parameter also in database;

Processes – 800

open_cursors – 800

sessions – 500

Refer this link for if you want to know how do I install oracle software and create database

<http://mohamedazar.com/2010/11/29/grid-infrastructure-installation-guide-for-standalone-server/>

Step 4: Install JAVA

<http://mohamedazar.com/2013/02/24/java-install/>

Step 5: Install RCU

```
[root@bip install]# su - oracle
```

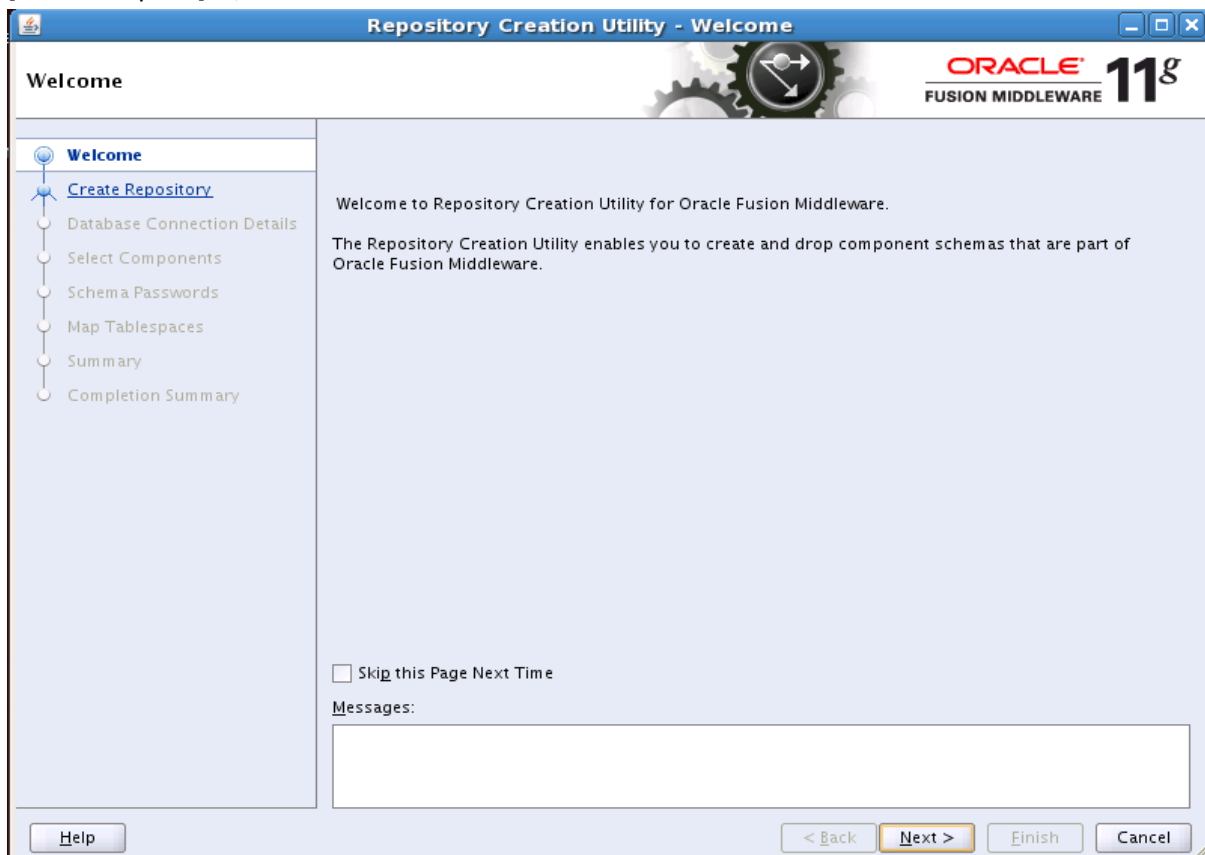
```
[oracle@bip ~]$ cd /install
```

```
[oracle@bip install]$ unzip ofm_rcu_linux_11.1.1.6.0_disk1_1of1.zip
```

```
[oracle@bip bin]$ pwd
```

```
/install/rcuHome/bin
```

```
[oracle@bip bin]$ ./rcu
```





Repository Creation Utility - Step 2 of 7 : Database Connection Details

Database Connection Details

ORACLE 11g
FUSION MIDDLEWARE

[Welcome](#)
[Create Repository](#)
[Database Connection Details](#)
[Select Components](#)
[Schema Passwords](#)
[Map Tablespaces](#)
[Summary](#)
[Completion Summary](#)

Database Type: Oracle Database

Host Name: bip.ace-ins.com
 For RAC database, specify VIP name or one of the Node name as Host name.
 For SCAN enabled RAC database, specify SCAN host as Host name.

Port: 1521

Service Name: biptest

Username: sys
 User with DBA or SYSDBA privileges. Example:sys

Password:

Role: SYSDBA
 One or more components may require SYSDBA role for the operation to succeed.

Messages:

[Help](#)
[< Back](#)
[Next >](#)
[Finish](#)
[Cancel](#)

Repository Creation Utility - Step 2 of 7 : Database Connection Details

Database Connection Details

ORACLE 11g
FUSION MIDDLEWARE

[Welcome](#)
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Messages:

[Help](#)
[< Back](#)
[Next >](#)
[Finish](#)
[Cancel](#)

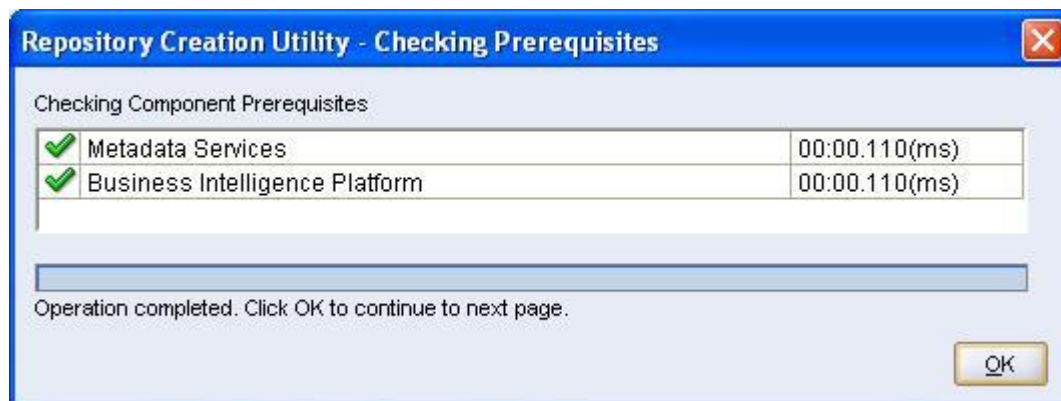
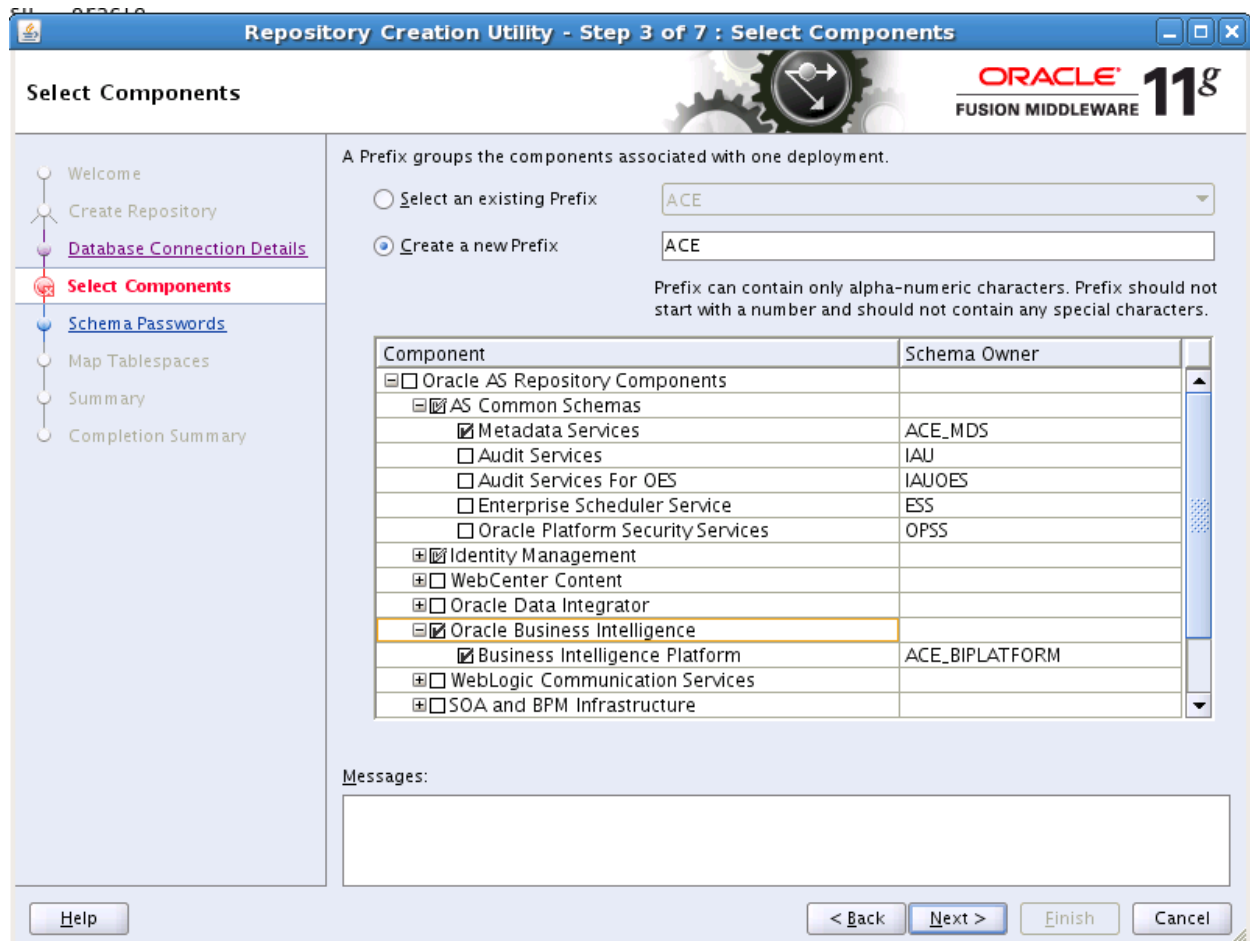
Repository Creation Utility - Checking Prerequisites

Checking Global Prerequisites

✓ Initializing repository configuration metadata	00:00.949(ms)
✓ Obtain properties of the specified database	00:00.105(ms)
✓ Check requirement for specified database	00:00.518(ms)
✓ Execute pre create operations	00:00.104(ms)

Operation completed. Click OK to continue to next page.

[OK](#)



Repository Creation Utility - Step 4 of 7 : Schema Passwords

Schema Passwords

Note: My screenshot missed So i just took the another one

Please enter the passwords for the main components. Password can contain alphabets, numbers and the following special characters: \$, #, _ . Password should not start with a number or a special character.

☒ Use same passwords for all schemas

Password

Confirm Password

☐ Use main schema passwords for auxiliary schemas

☒ Specify different passwords for all schemas

Component	Schema Owner	Schema Password	Confirm Password
Metadata Services	ACE_MDS		
Business Intelligence Platform	DEV_BIPLATFORM		

Messages:

Help < Back Next > Finish Cancel

Repository Creation Utility - Confirmation

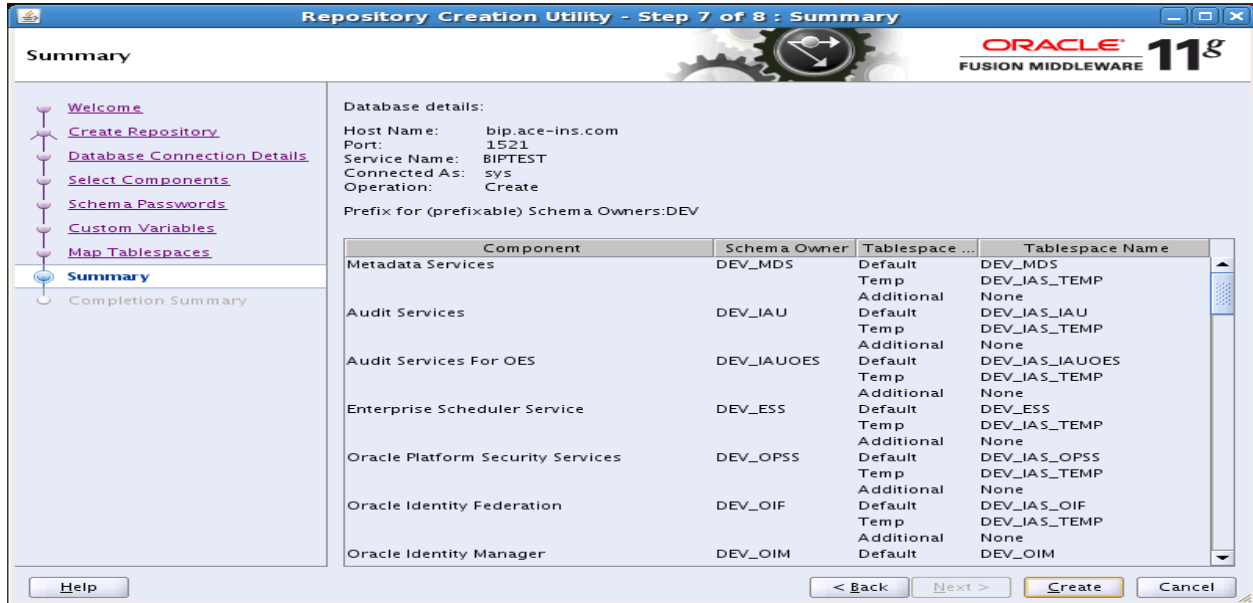
? Any tablespaces that do not already exist in the selected schemas will be created.

Click OK to create tablespaces.
Click Cancel to return to the wizard.

OK Cancel

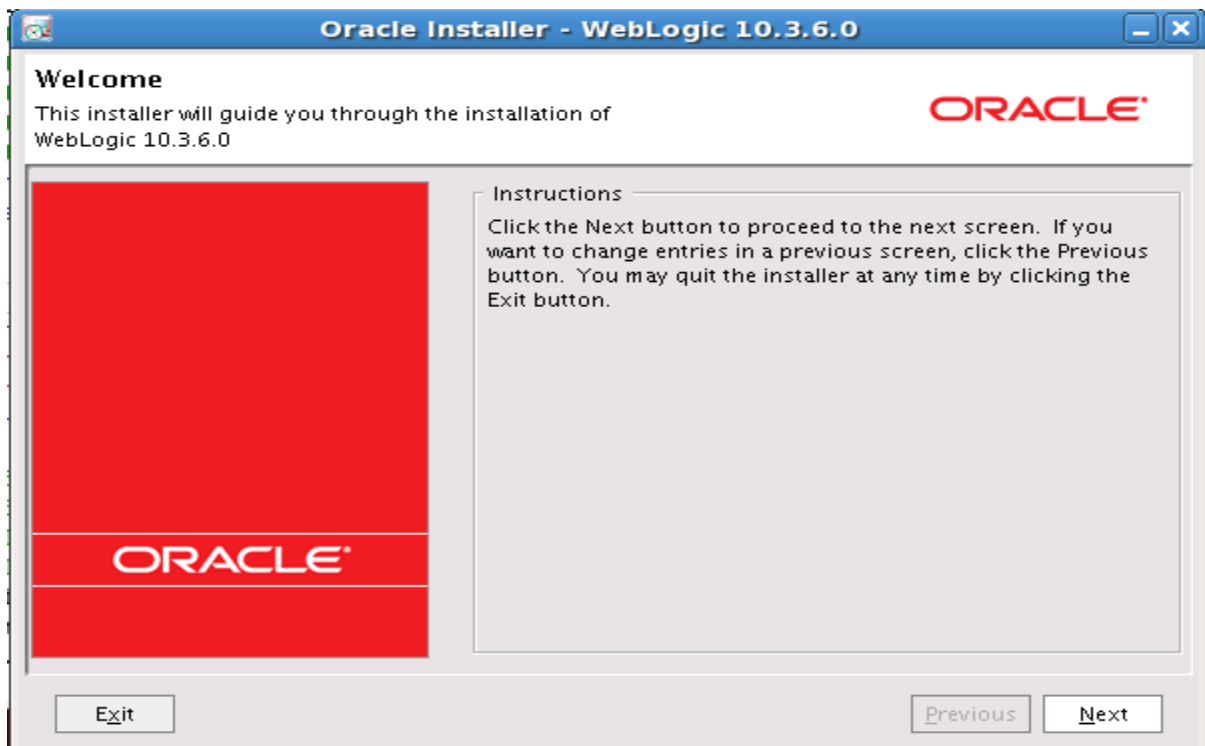
The below two screenshot took from other prefix , so ignore it please do the create steps

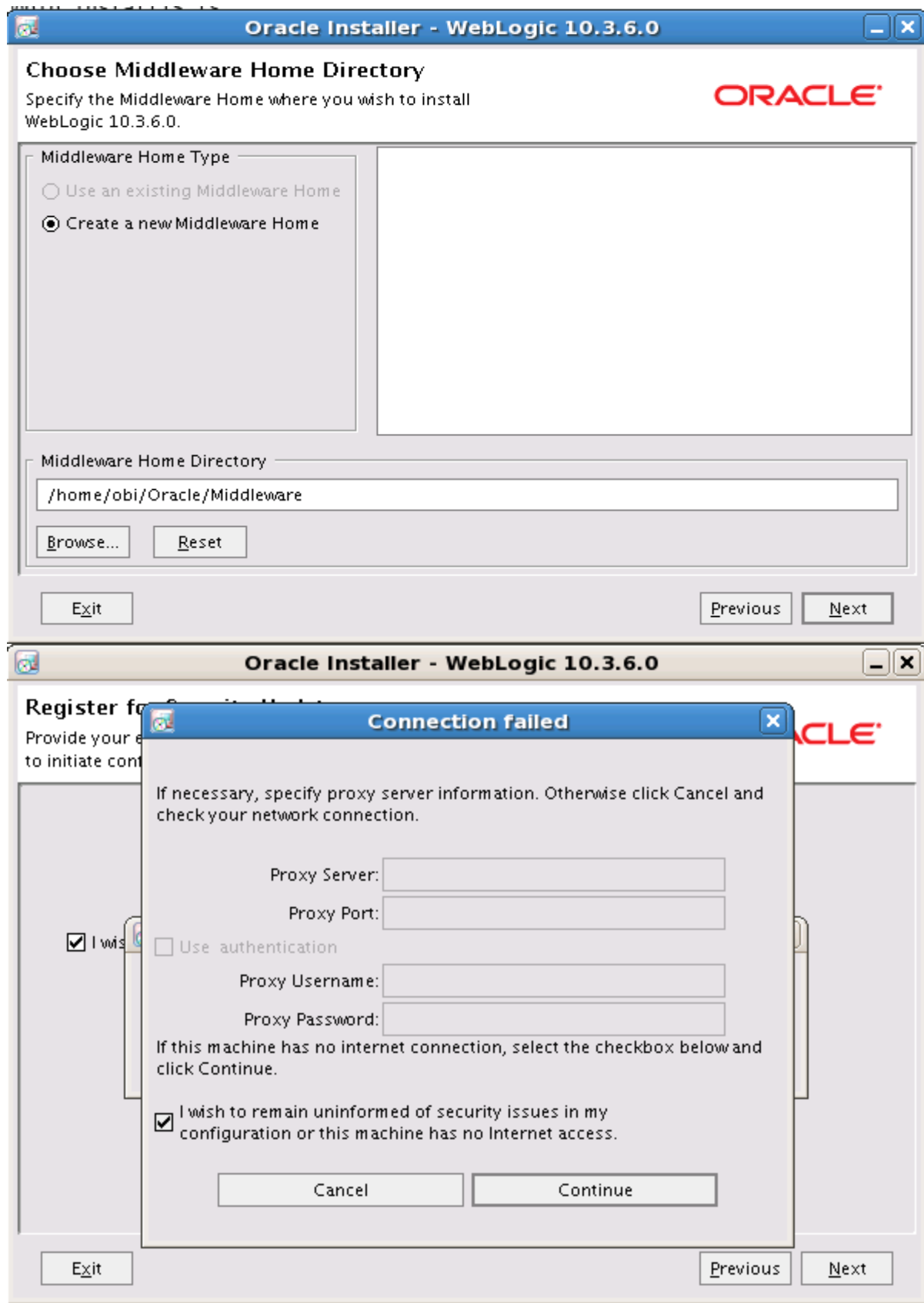
Two component only will create

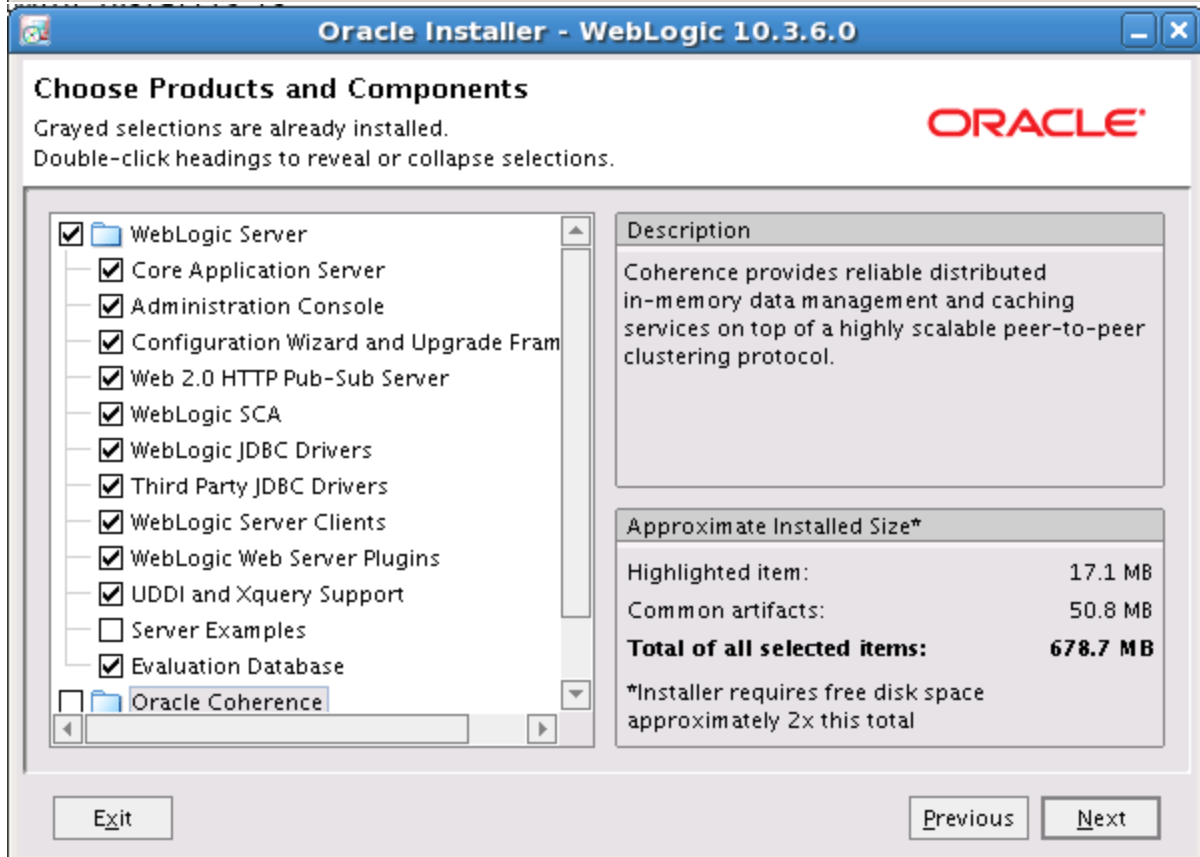
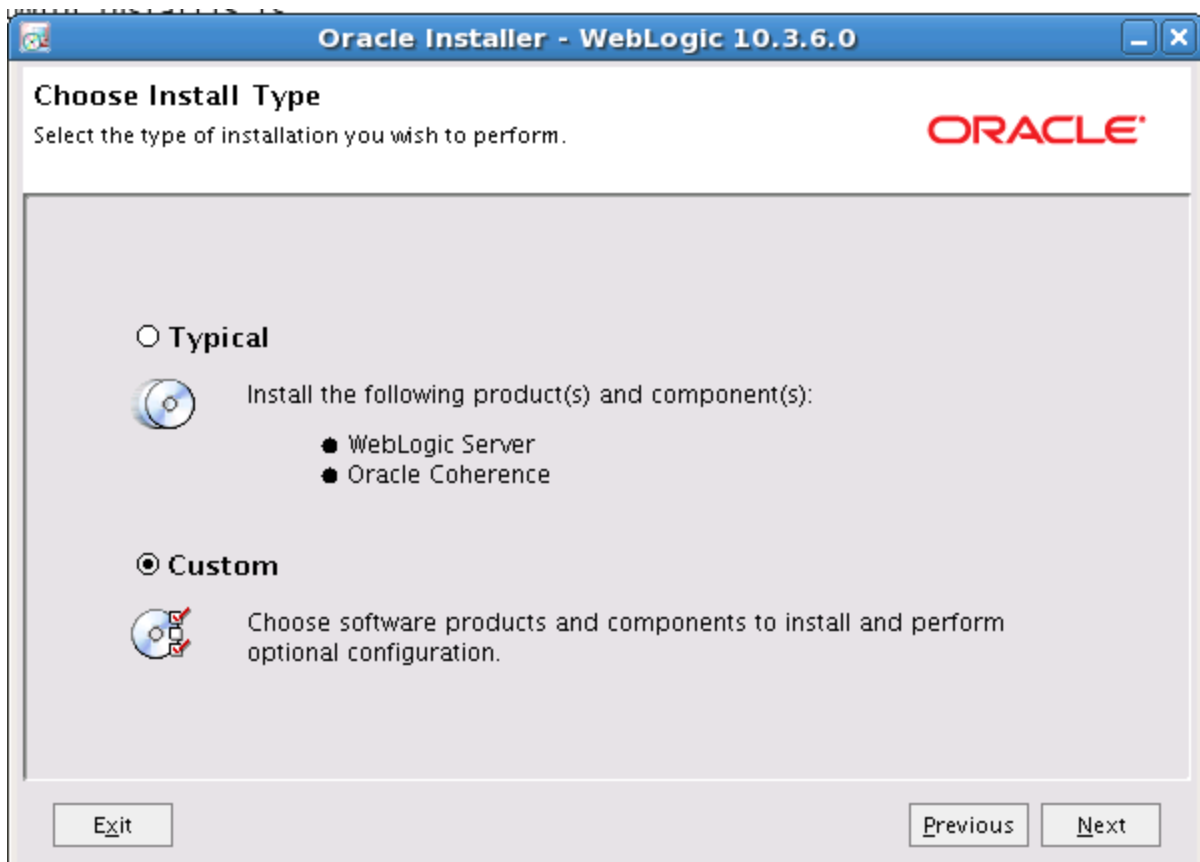


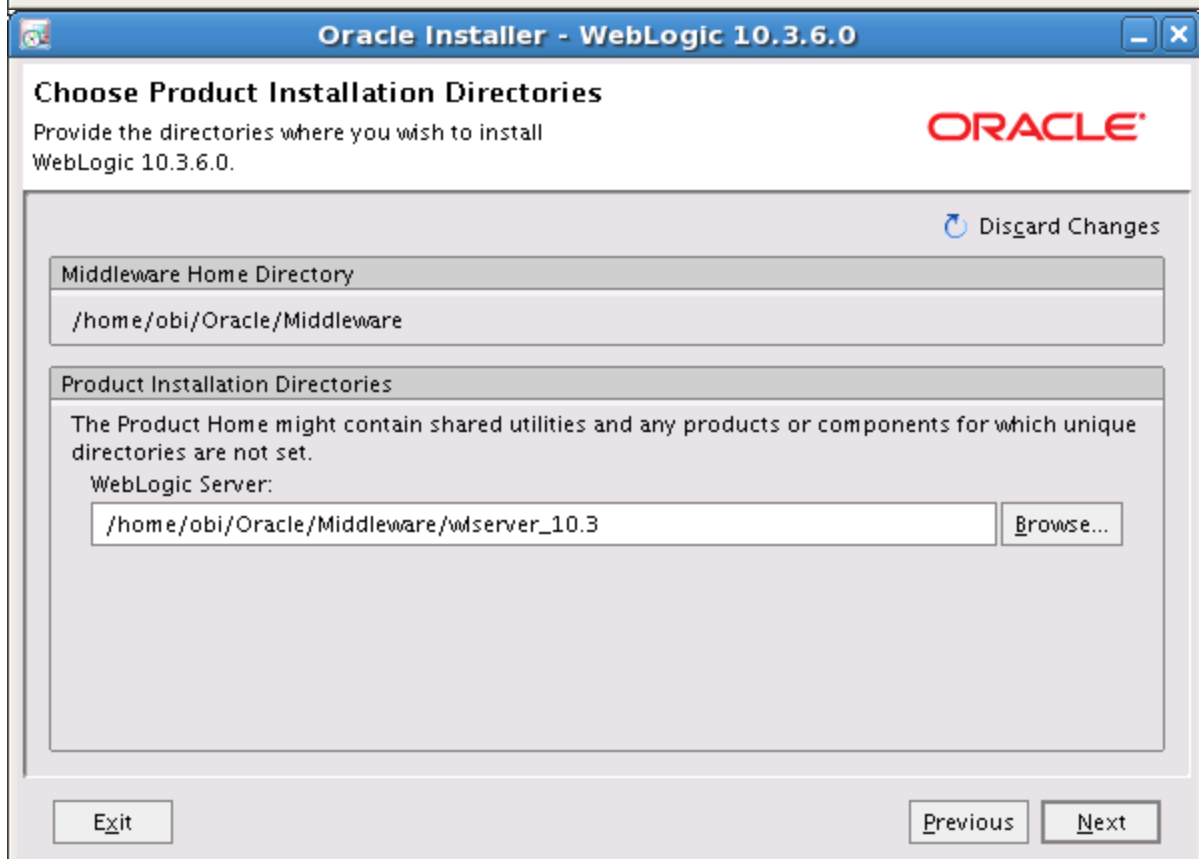
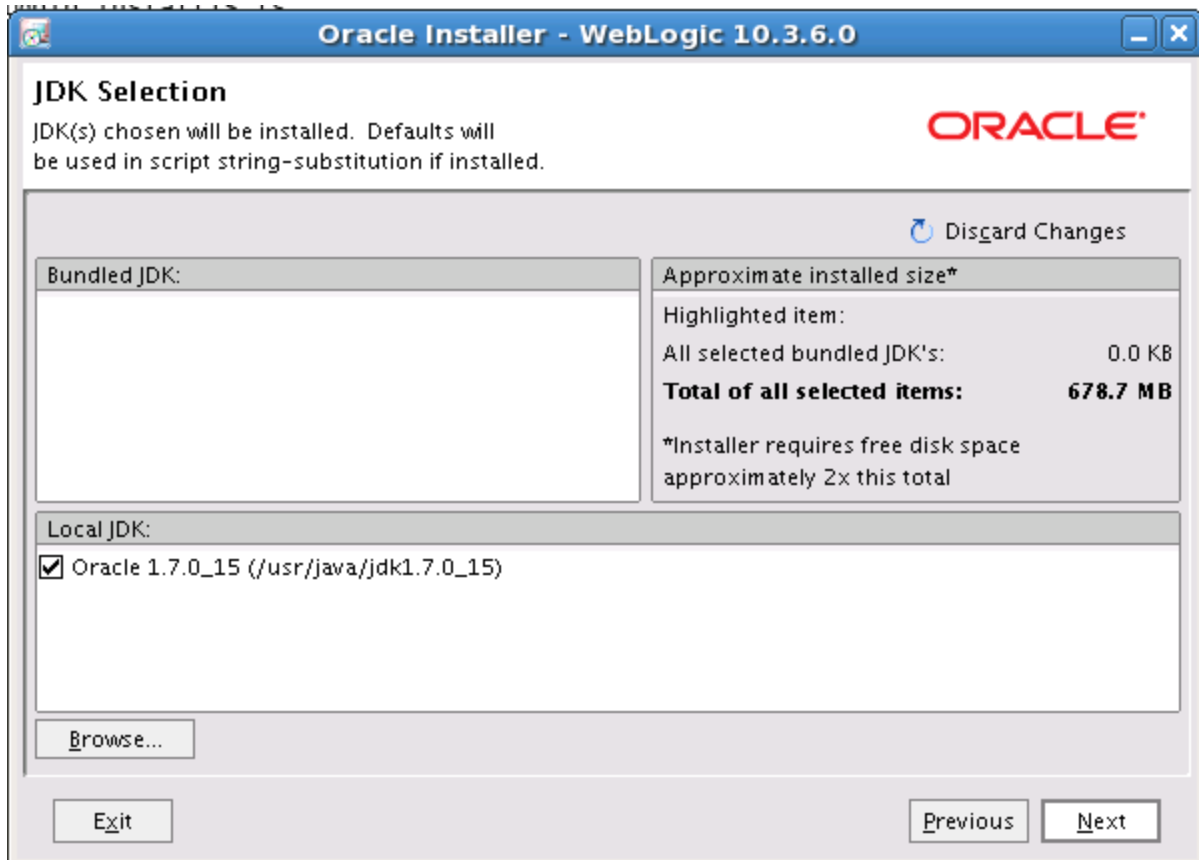
Step 6: Install Weblogic server 10.3.6

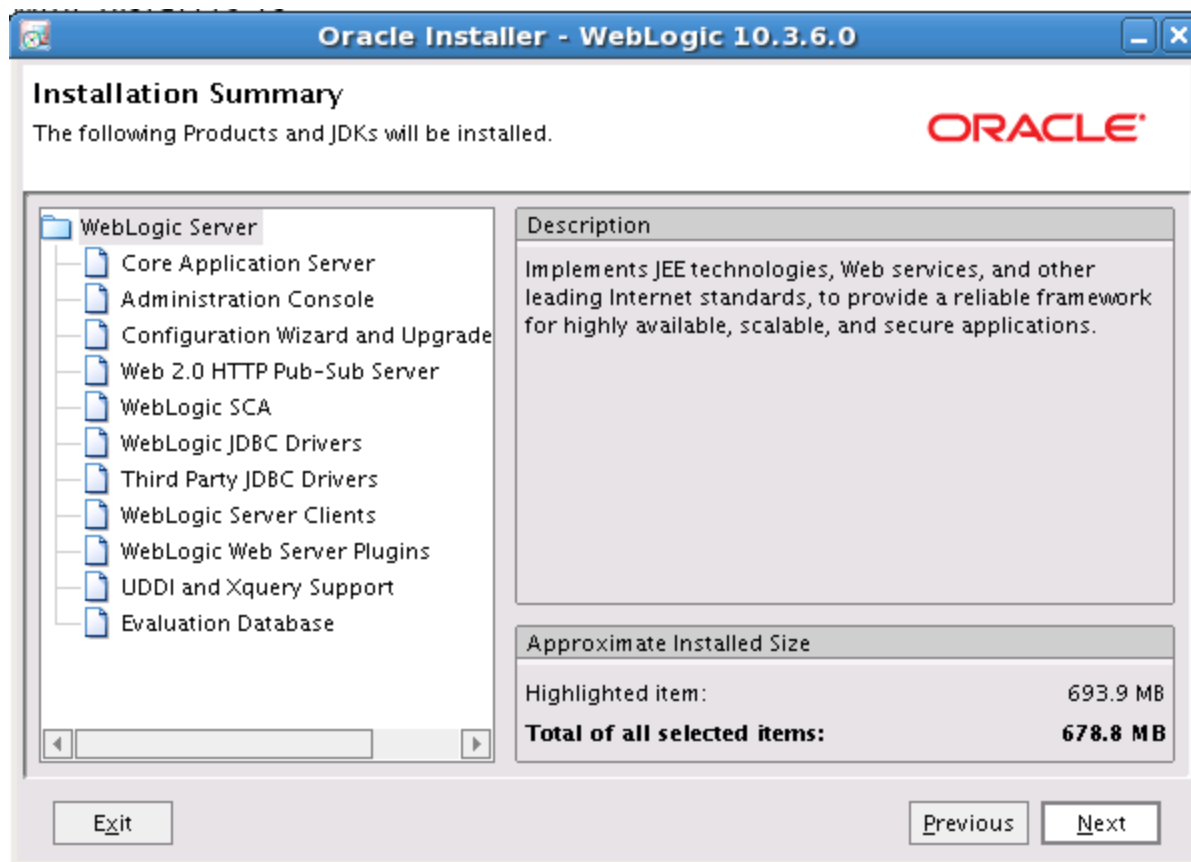
```
[obi@bip install]$ java -jar wls1036_generic.jar  
Extracting 0%.....
```

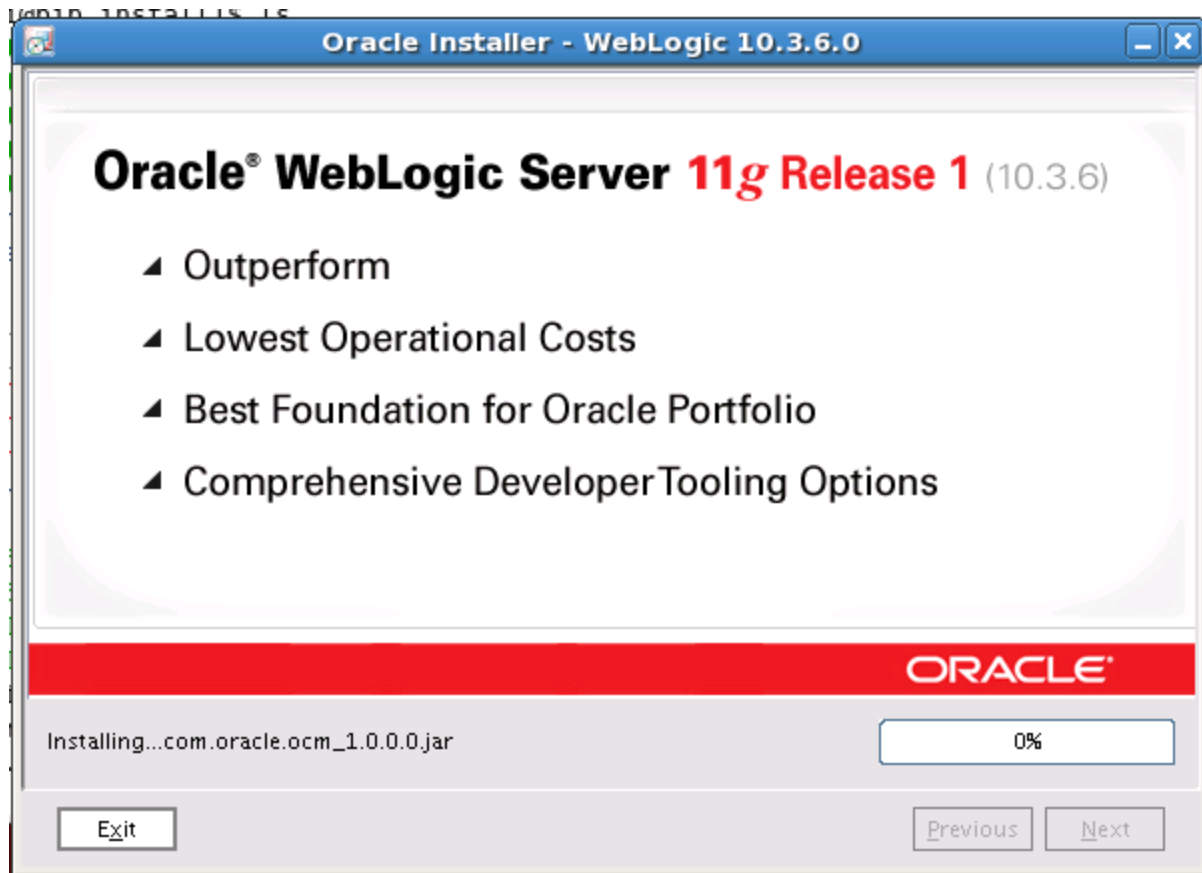


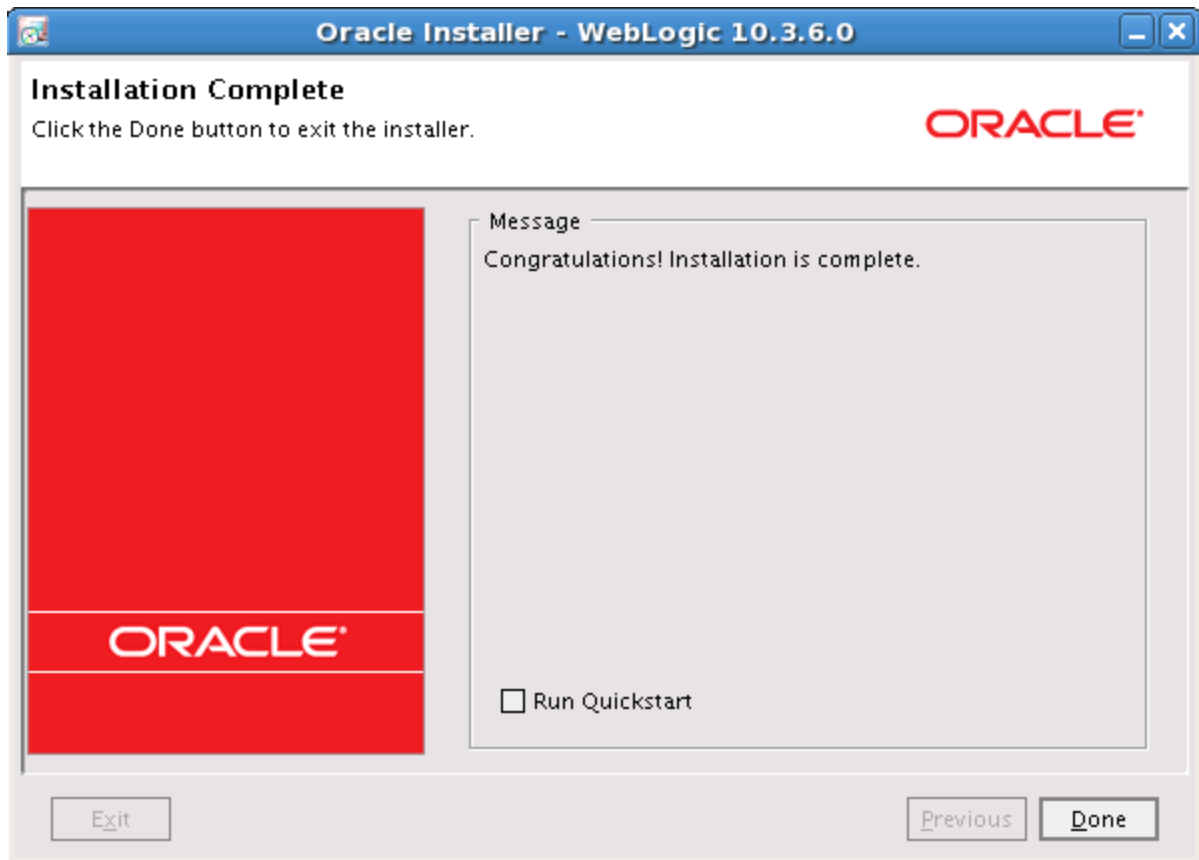










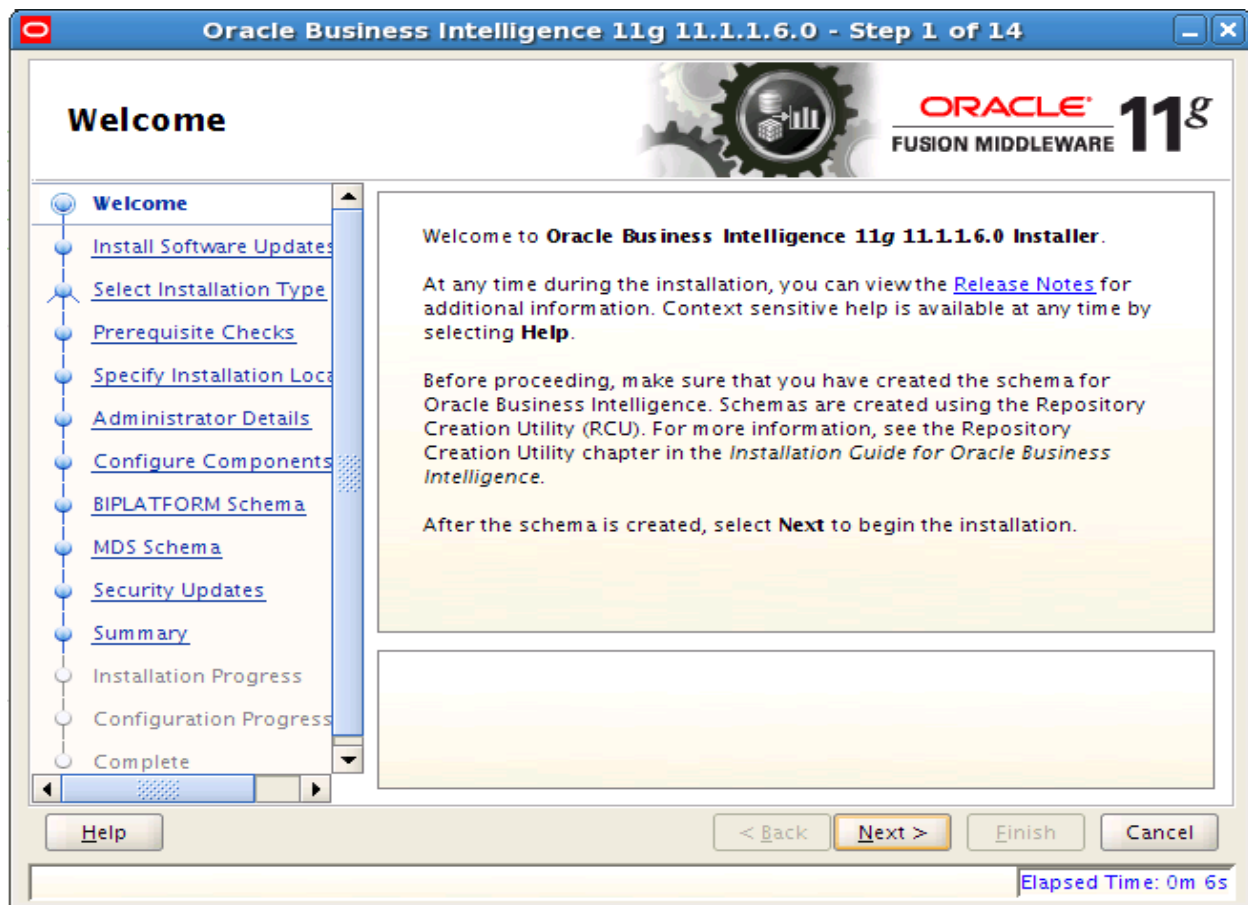


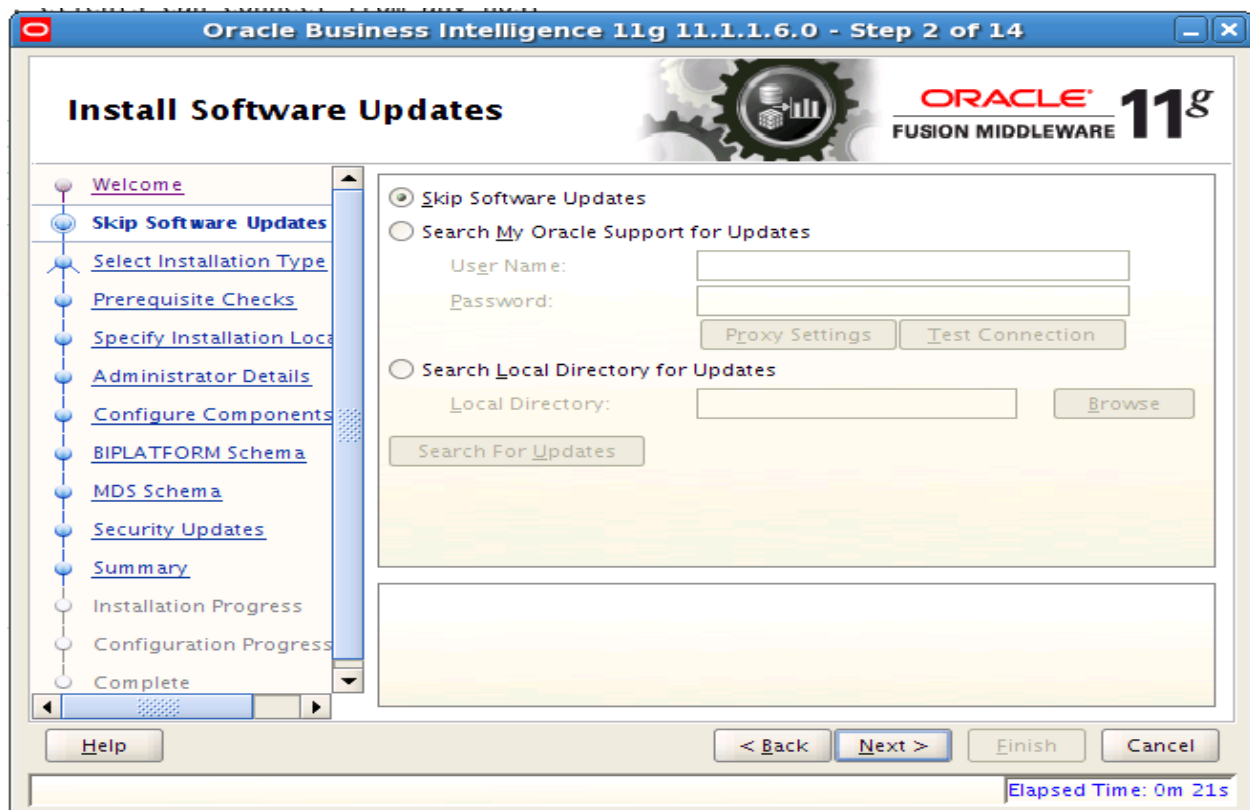
Step 7: Install BI software only install

```
[obi@bip install]$ cksum bi_linux_x86_111160_64_disk1_lof2_4.zip bi_linux_x86_111160_64_disk1_2of2.zip bi_linux_x86_111160_64_disk2_lof2.zip bi_linux_x86_111160_64_disk2_2of2.zip bi_linux_x86_111160_64_disk3.zip
2909839713 1412707925 bi_linux_x86_111160_64_disk1_lof2_4.zip
1499178505 1561980437 bi_linux_x86_111160_64_disk1_2of2.zip
1921434953 1784969937 bi_linux_x86_111160_64_disk2_lof2.zip
397265218 1540944674 bi_linux_x86_111160_64_disk2_2of2.zip
320598023 1649007635 bi_linux_x86_111160_64_disk3.zip
```

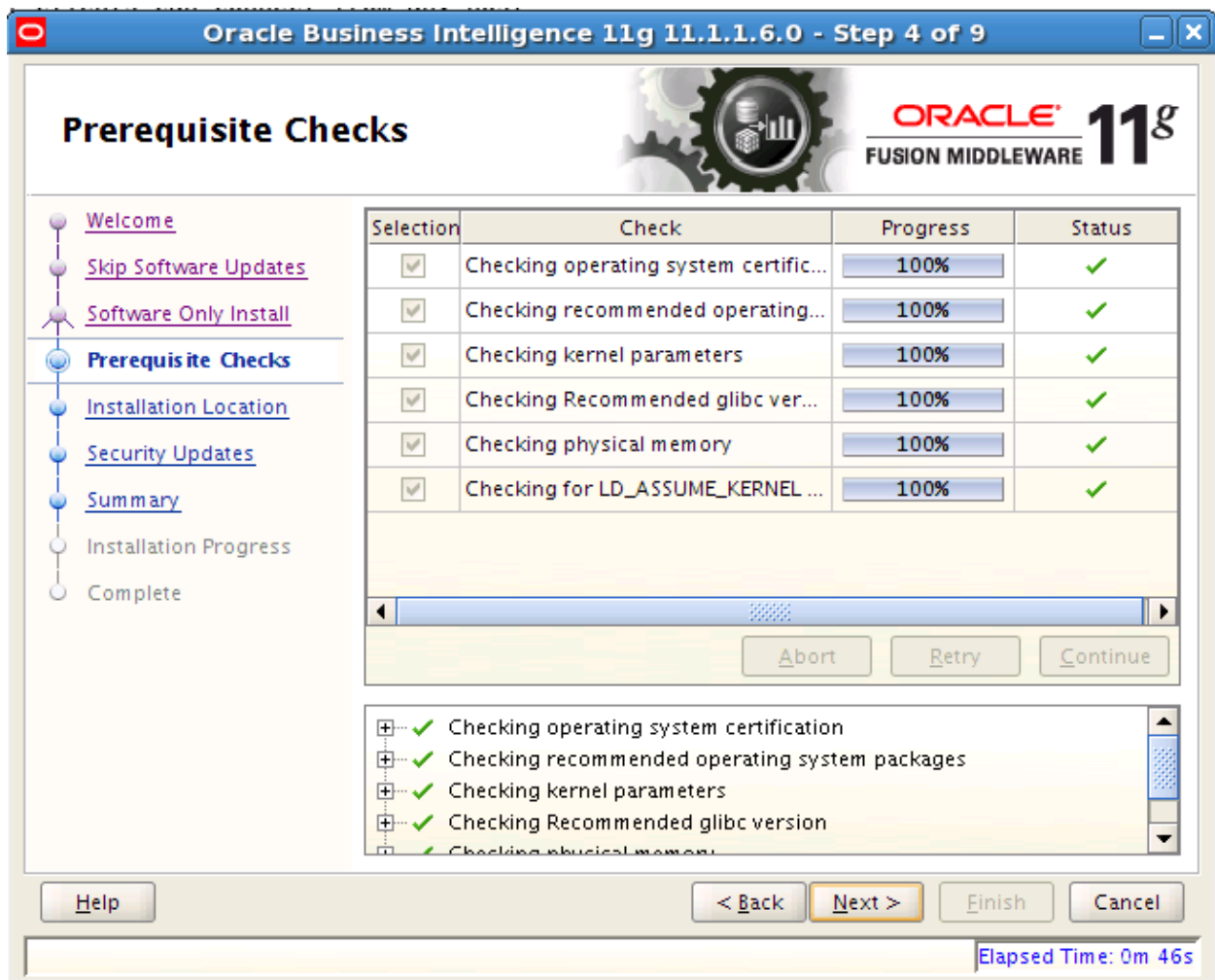
```
[obi@bip Disk1]$ ./runInstaller
Starting Oracle Universal Installer...
```

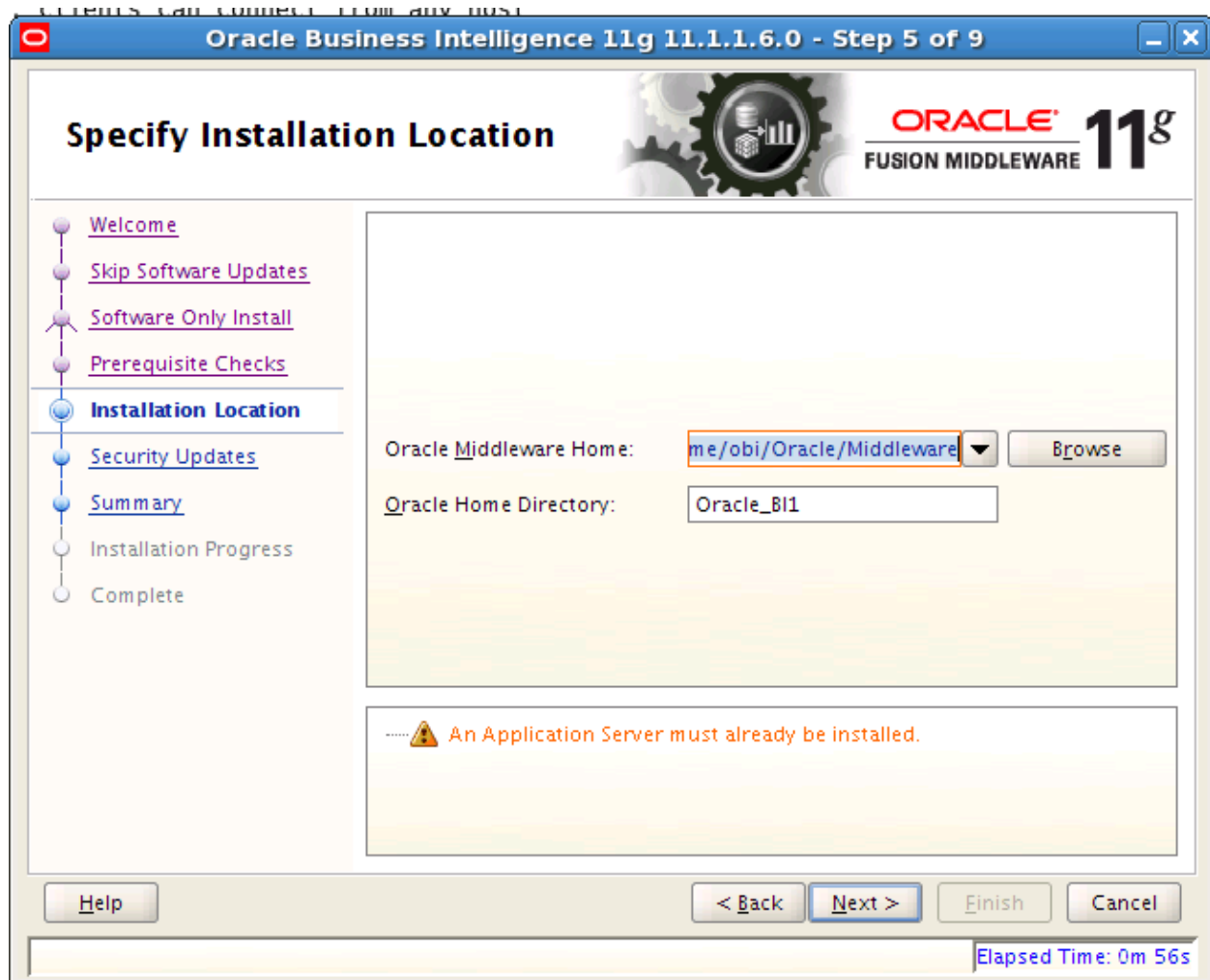
```
Checking Temp space: must be greater than 1536 MB.   Actual 57370 MB   Passed
Checking swap space: must be greater than 500 MB.   Actual 14482 MB   Passed
Checking monitor: must be configured to display at least 256 colors.   Actual 65536   Passed
Preparing to launch Oracle Universal Installer from /tmp/OraInstall2013-03-31_11-48-16PM. Please wait ...
```



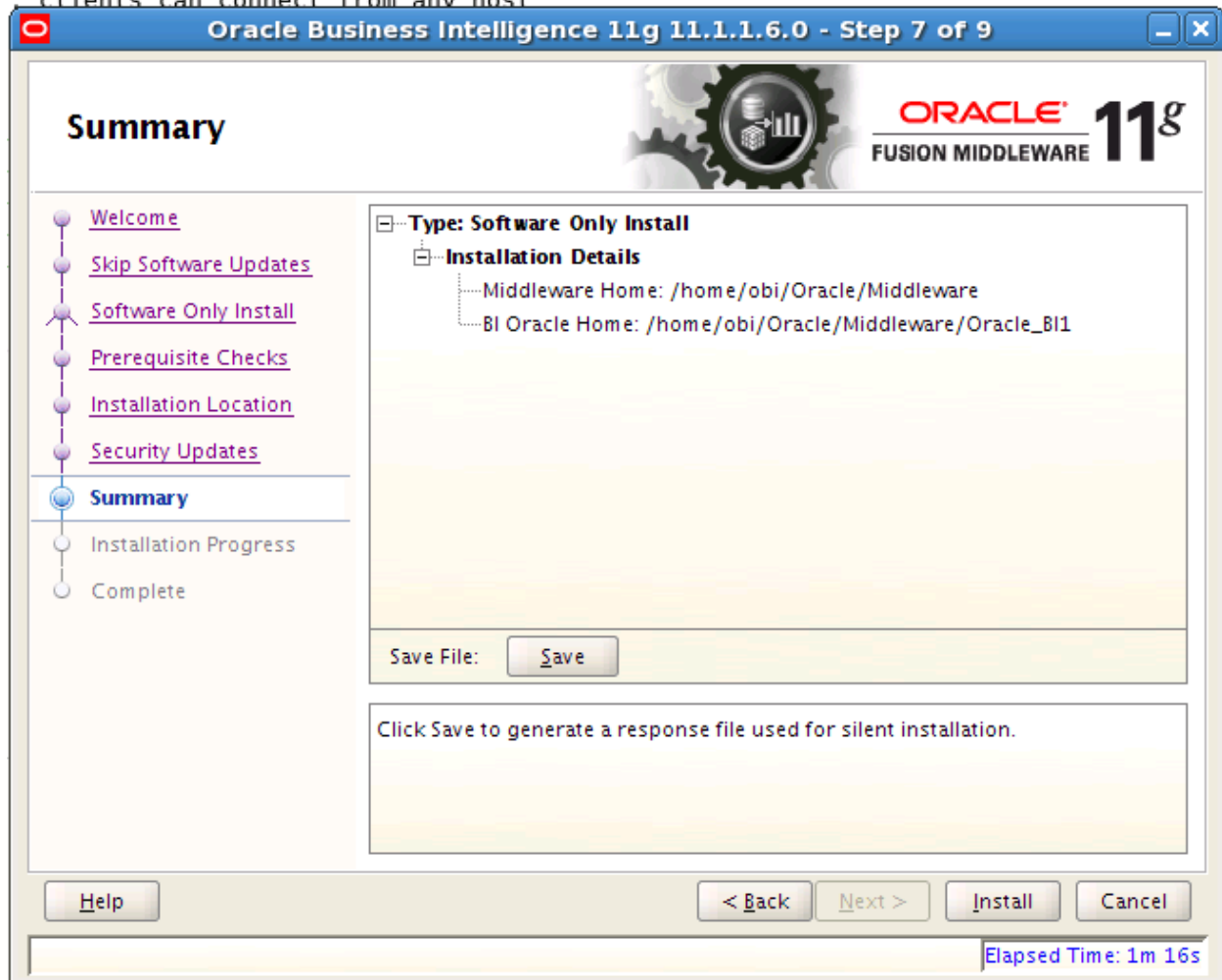




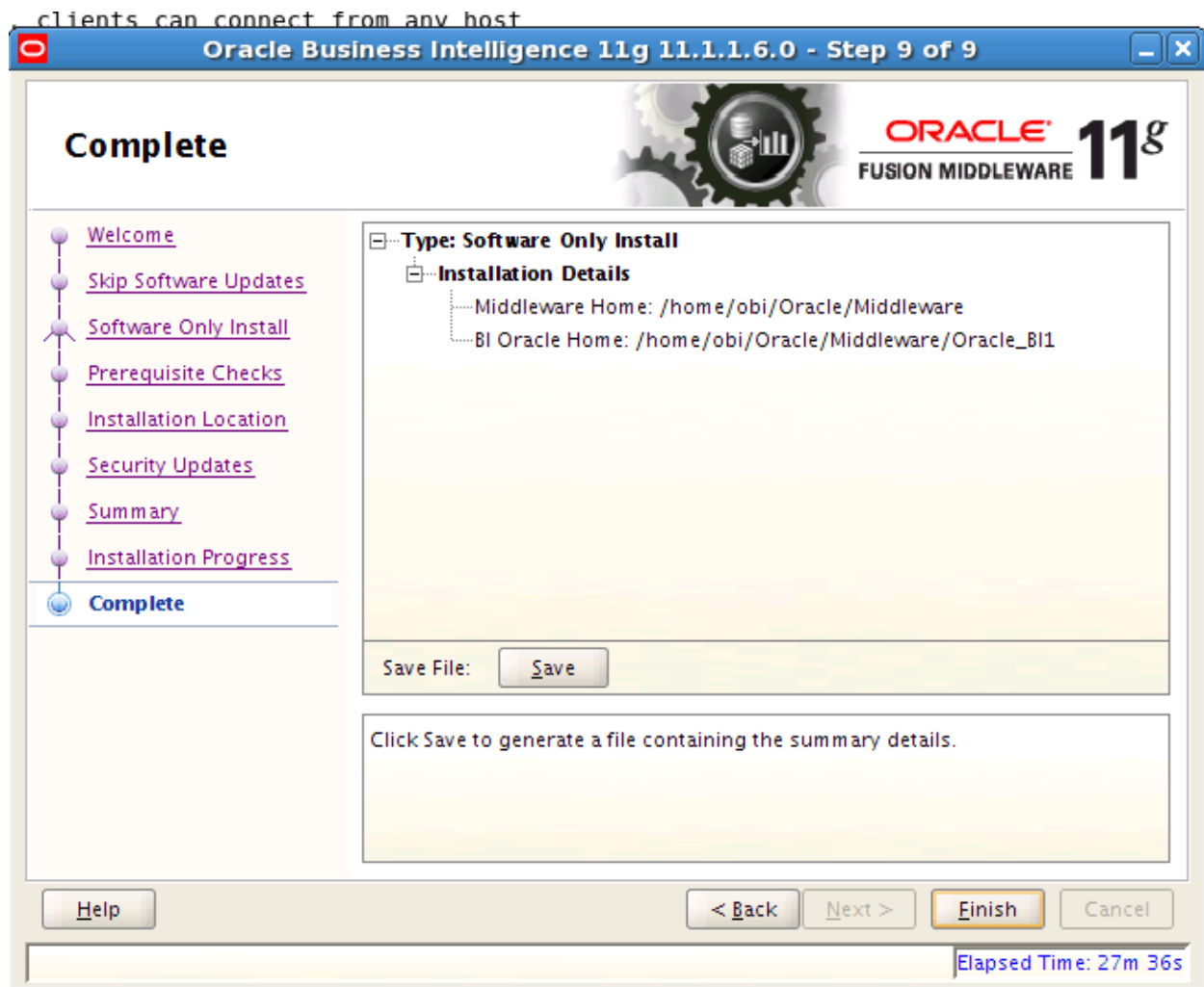




clients can connect from any host







Step 8: Configure BI

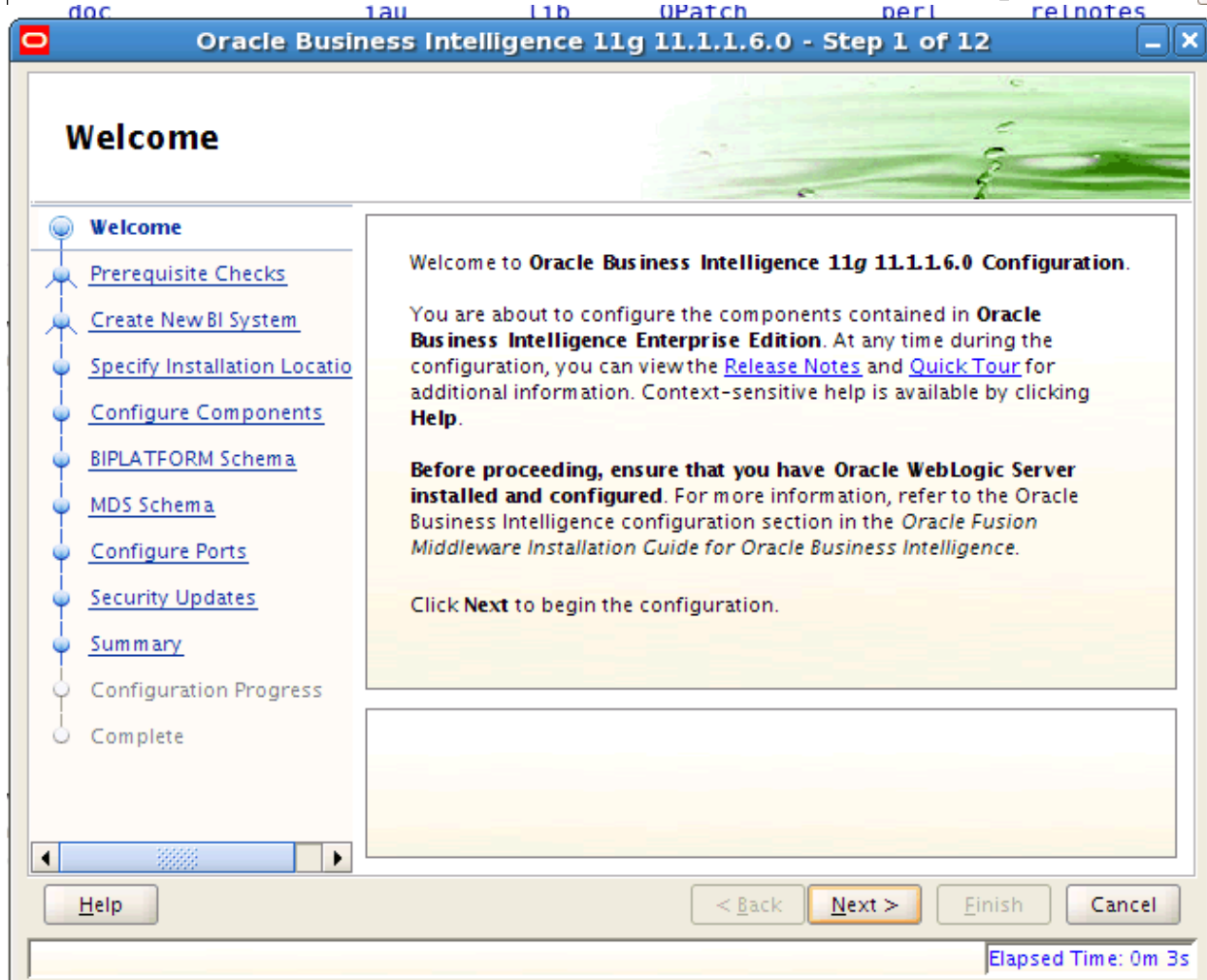
```
[root@bip ~]# su - obi  
[obi@bip ~]$ cd /home/obi/Oracle/Middleware/Oracle_BI1/bin  
[obi@bip bin]$ pwd  
/home/obi/Oracle/Middleware/Oracle_BI1/bin  
[obi@bip bin]$ ./config.sh
```

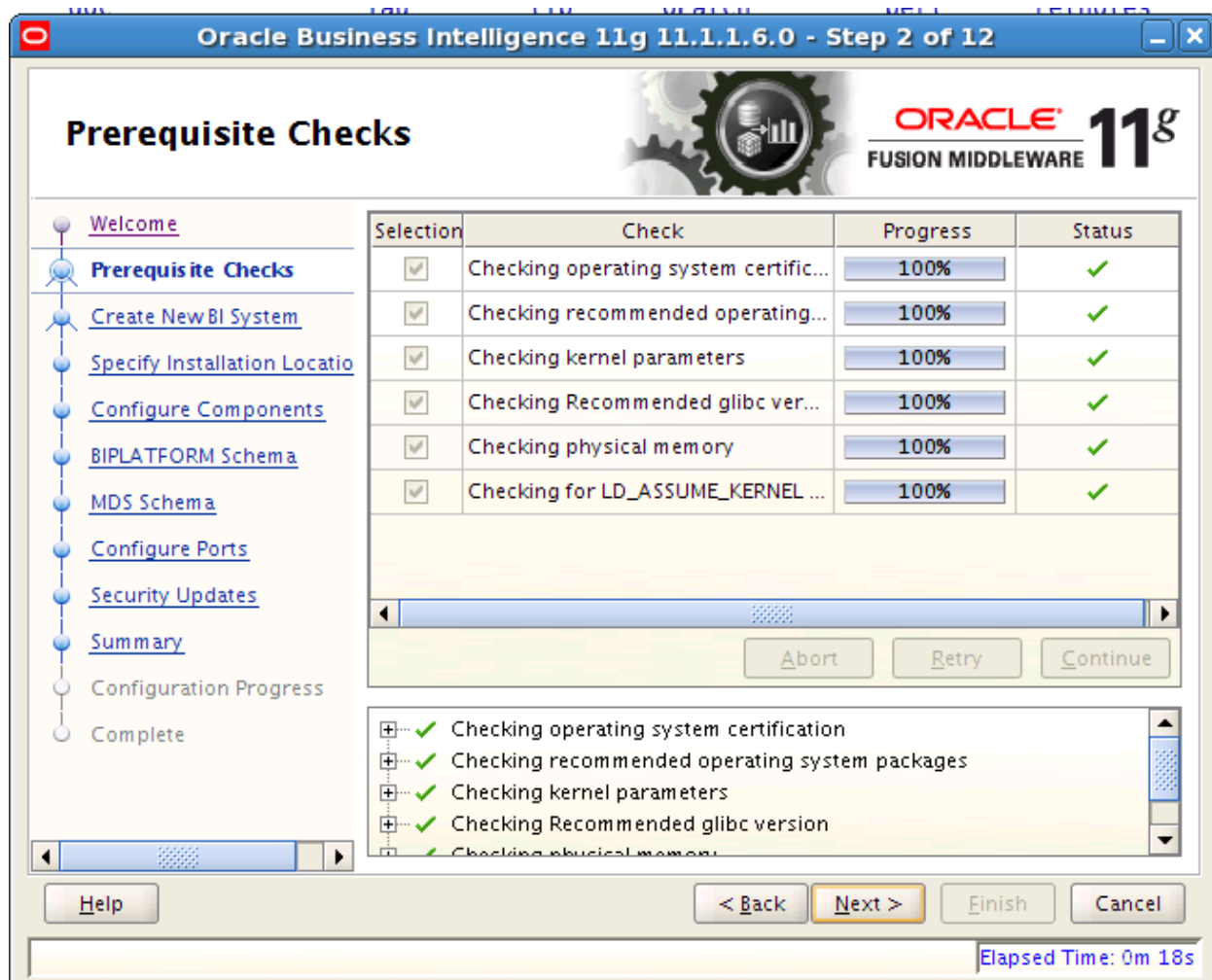
```

[obi@bip bin]$ pwd
/home/obi/Oracle/Middleware/Oracle_BI1/bin
[obi@bip bin]$ ./config.sh
Starting Fusion Middleware Configuration Wizard
ORACLE_HOME set as /home/obi/Oracle/Middleware/Oracle_BI1
PATH set as /home/obi/Oracle/Middleware/Oracle_BI1/bin:/u01/app/oracle/product/11.2.0/dbhome_1/bin:/opt/bin:/usr/java/jdk1.7.0_15/bin:/usr/kerberos/bin:/usr/local/bin:/bin:/usr/bin:/home/obi/bin:/home/obi/bin:/usr/local/OracleBI/setup
LD_LIBRARY_PATH set as /home/obi/Oracle/Middleware/Oracle_BI1/lib:/u01/app/oracle/product/11.2.0/dbhome_1/lib32:
Starting Oracle Universal Installer...

Checking swap space: must be greater than 500 MB.   Actual 14532 MB   Passed
Checking monitor: must be configured to display at least 256 colors.   Actual 65536   Passed
Preparing to launch Oracle Universal Installer from /tmp/OraInstall2013-04-01_12-16-59AM. Please wait ...

```





Oracle Business Intelligence 11g 11.1.1.6.0 - Step 3 of 12

Create, Scale Out or Extend



Welcome

Prerequisite Checks

Create New BI System

Specify Installation Location

Configure Components

BIPLATFORM Schema

MDS Schema

Configure Ports

Security Updates

Summary

Configuration Progress

Complete

Create New BI System

Scale Out BI System

Extend BI System

User Name:

weblogic

User Password:

.....

Confirm Password:

.....

Domain Name:

bifoundation_domain

Confirm the password by entering it again.

The password must have a minimum of 8 alphanumeric characters, a maximum of 30 alphanumeric characters, must begin with an alphabetic character, use only alphanumeric, underscore (_), dollar (\$) or pound (#) characters and include at least 1 digit.

Help

< Back

Next >

Finish

Cancel

Elapsed Time: 0m 33s

Oracle Business Intelligence 11g 11.1.1.6.0 - Step 4 of 12

Specify Installation Location



Welcome

Prerequisite Checks

Create New BI System

Specify Installation Location

Configure Components

BIPLATFORM Schema

MDS Schema

Configure Ports

Security Updates

Summary

Configuration Progress

Complete

Middleware Home:

Oracle Home:

WebLogic Server Home:

Domain Home:

Instance Home:

Instance Name:

/home/obi/Oracle/Middleware

/home/obi/Oracle/Middleware/

/home/obi/Oracle/Middleware/

/domains/bifoundation_domain

/home/obi/Oracle/Middleware/

instance1

The Middleware Home location for creating new BI system on this machine.

Help

< Back

Next >

Finish

Cancel

Elapsed Time: 0m 48s

DBA <http://mohamedazar.com>

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Oracle Business Intelligence 11g 11.1.1.6.0 - Step 6 of 12

BIPLATFORM Schema



[Welcome](#)
[Prerequisite Checks](#)
[Create New BI System](#)
[Specify Installation Location](#)
[Configure Components](#)
BIPLATFORM Schema
[MDS Schema](#)
[Configure Ports](#)
[Security Updates](#)
[Summary](#)
[Configuration Progress](#)
[Complete](#)

Database Type: Oracle Database

Connect String: bip:1521:bip test

BIPLATFORM Schema Username: ACE_BIPLATFORM

BIPLATFORM Schema Password:

Enter the BIPLATFORM schema password.

Help < Back Next > Finish Cancel

Elapsed Time: 1m 33s

Oracle Business Intelligence 11g 11.1.1.6.0 - Step 7 of 12

MDS Schema



- Welcome
- Prerequisite Checks
- Create New BI System
- Specify Installation Location
- Configure Components
- BIPLATFORM Schema
- MDS Schema**
- Configure Ports
- Security Updates
- Summary
- Configuration Progress
- Complete

Database Type: Oracle Database

Connect String: bip:1521:biptest

MDS Schema Username: ACE_MDS

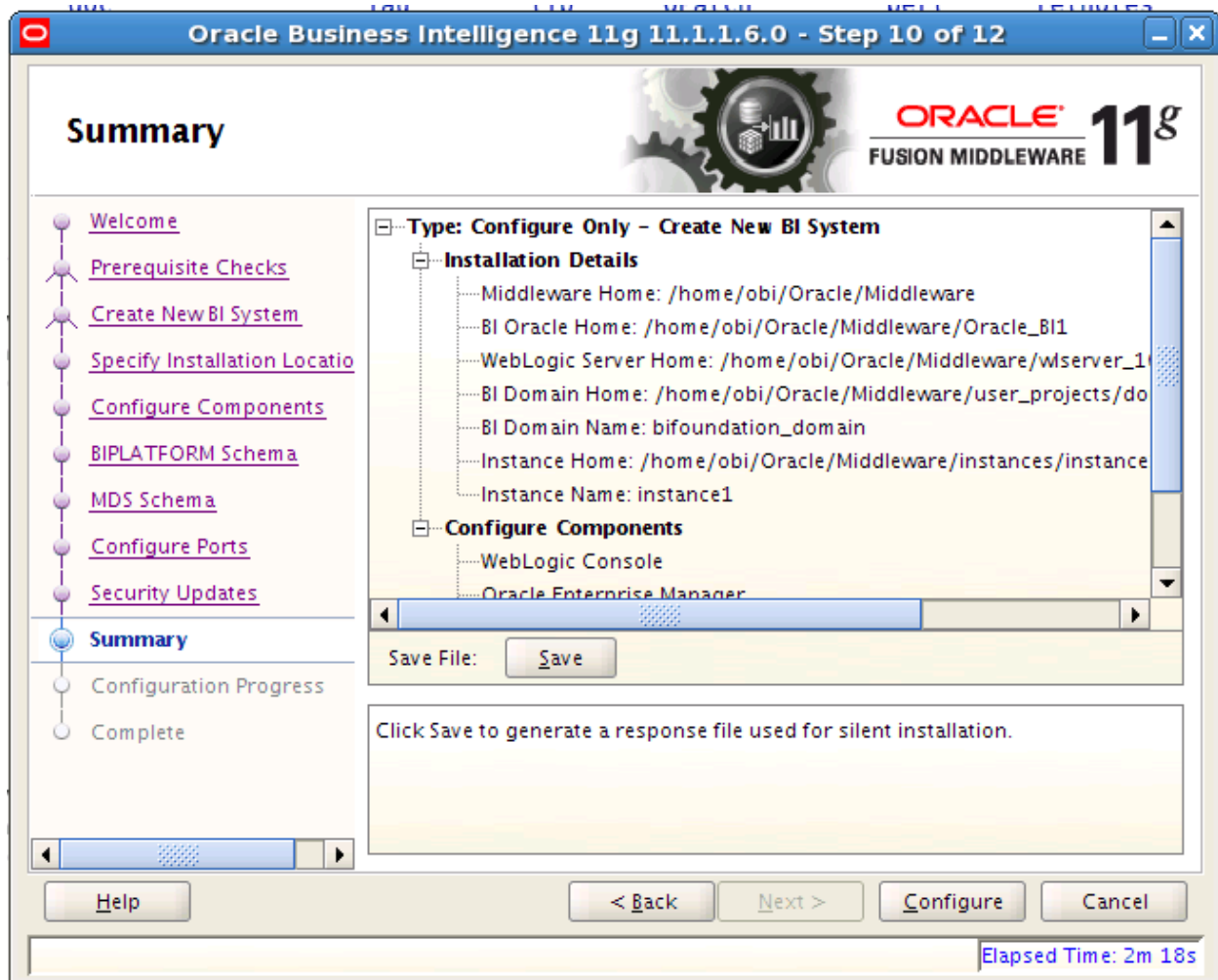
MDS Schema Password:

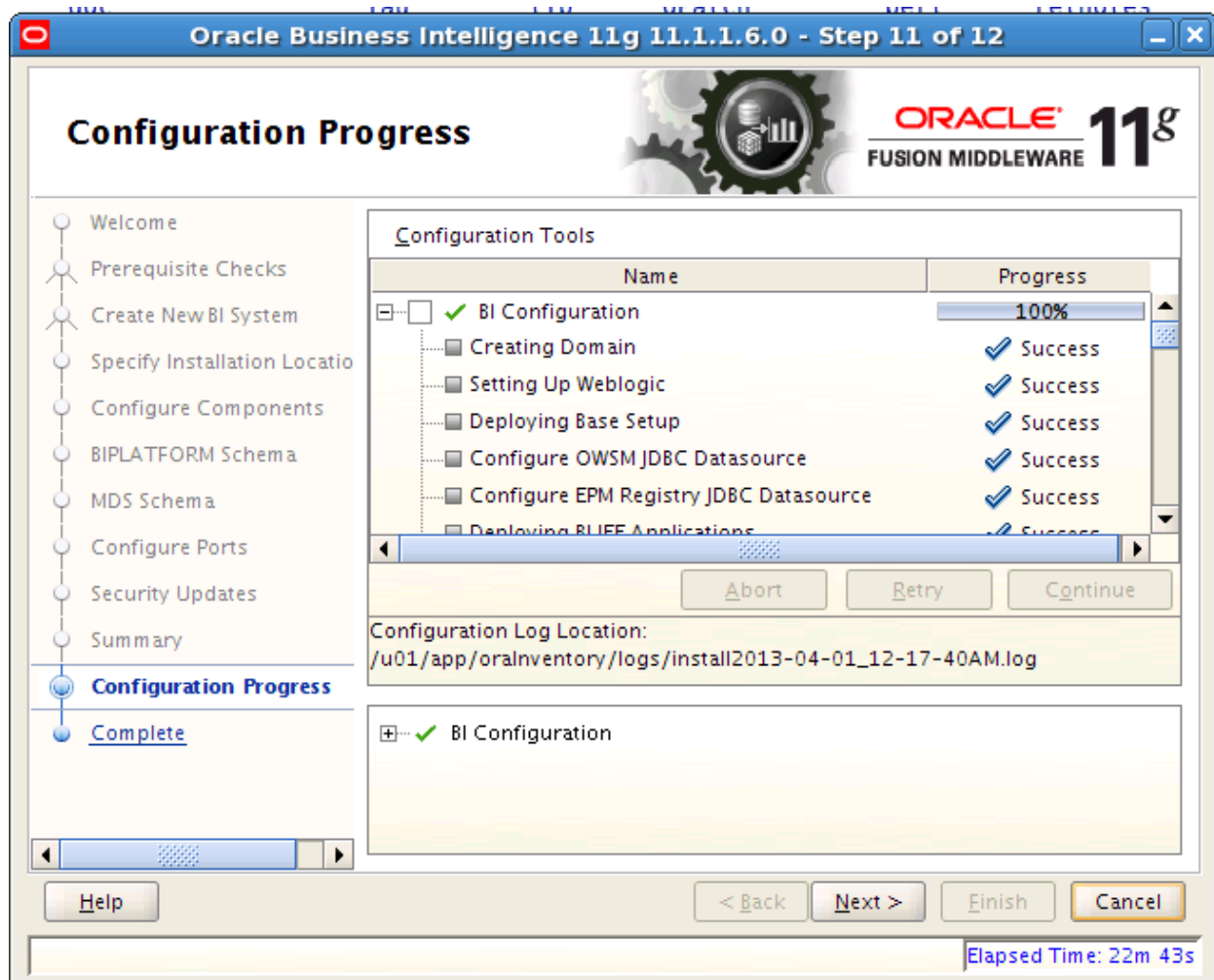
Enter the connect string in the format **hostname:port:service_name** for the Oracle database where you installed the Oracle Business Intelligence Enterprise Edition metadata schema using the Repository Creation Utility (RCU). For Application Cluster (RAC) Database use the format **host1:port1:instance1^host2:port2:instance2@service_name**.

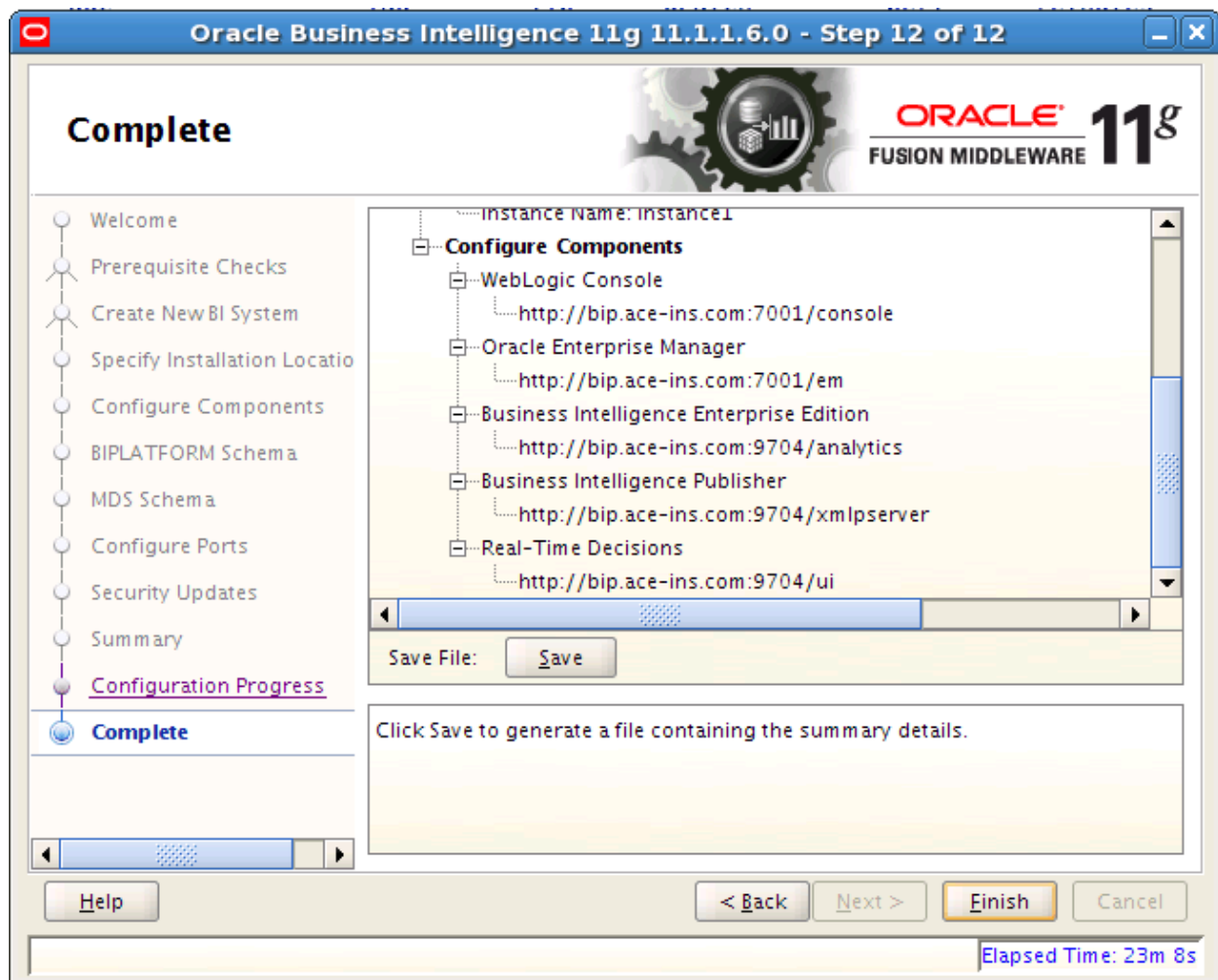
Help < Back Next > Finish Cancel

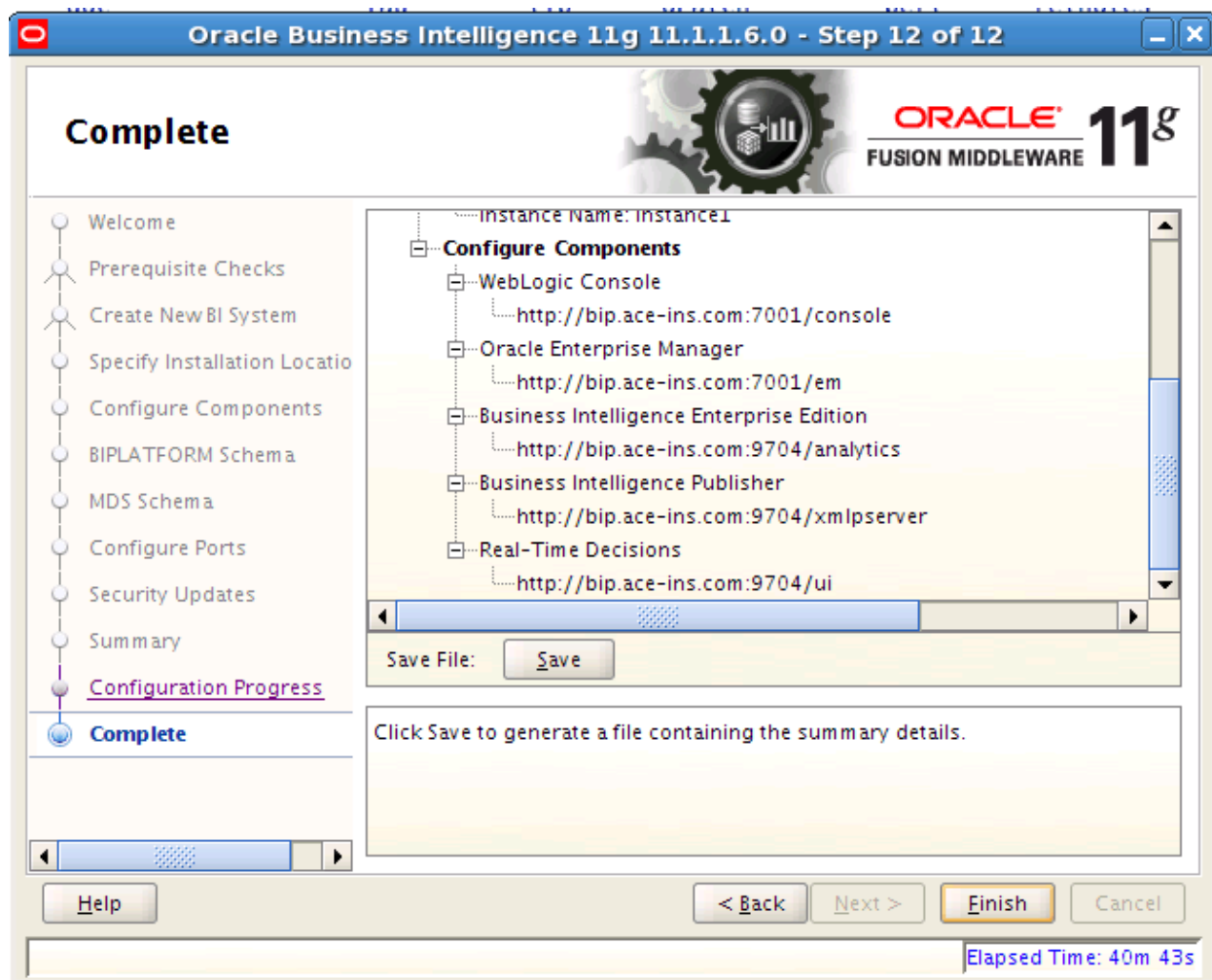
Elapsed Time: 1m 48s

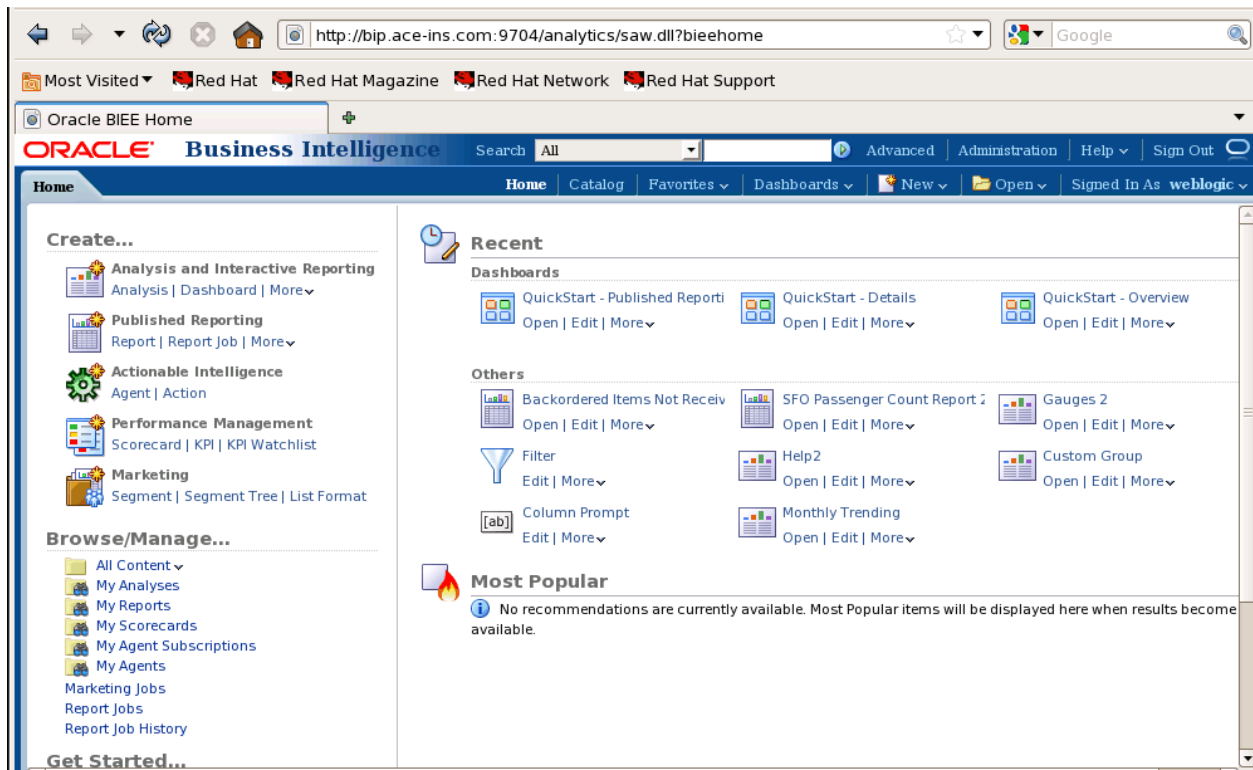












Use weblogic username and password for all URL