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Integrate Discoverer 10g with Oracle Applications R12.1.1 on Red Hat 5.4

References Notes:

Using Discoverer 10.1.2 with Oracle E-Business Suite Release 12 (Doc ID 373634.1)
Oracle Application Server 10g (10.1.2) Installation Requirements for Linux OEL 5 and RHEL 5 (Doc ID 564174.1)
Discoverer Service Fails To Start During Installation Of Application Server With The Error: dis51pr:
(Doc ID 604678.1)
Note: 351706.1 - How to See All Workbooks that the User has Access to in an Appsmode EUL
https://metalink2.oracle.com/metalink/plsql/ml2_documents.showDocument?p_database_id=NOT&p_id=351706.1

Download the software using the below link

<http://www.oracle.com/technology/software/products/ias/htdocs/101202.html>

Business Intelligence <input type="checkbox"/>	x86: 1.4 GB CD1 , CD2 , Tools CD	x86: 1 GB CD1 , CD2	SPARC: 2.1 GB CD1 , CD2	PA-RISC: 1.5 GB CD1 , CD2 , CD3	AIX5L: 1.7 GB CD1 , CD2 , CD3
	Itanium: 946 MB CD1 , CD2	Itanium: 1 GB CD1 , CD2	x86: 1 GB CD1	Itanium: 1.6 GB CD1 , CD2 , CD3	Power Linux: 1.1 GB CD1 , CD2
					Z/Linux: 1.2 GB CD1 , CD2

[as_linux_x86_bi_101202_disk1.cpio](#)

[as_linux_x86_bi_101202_disk2.cpio](#)

On UNIX: To extract the cpio file, move the cpio file to an empty directory, then do: `cat filename.cpio | cpio -icd`. To verify the integrity of a downloaded file has been transferred to a Unix host, run `cksum` and compare with the `cksum` information listed on this page.

Set the environment

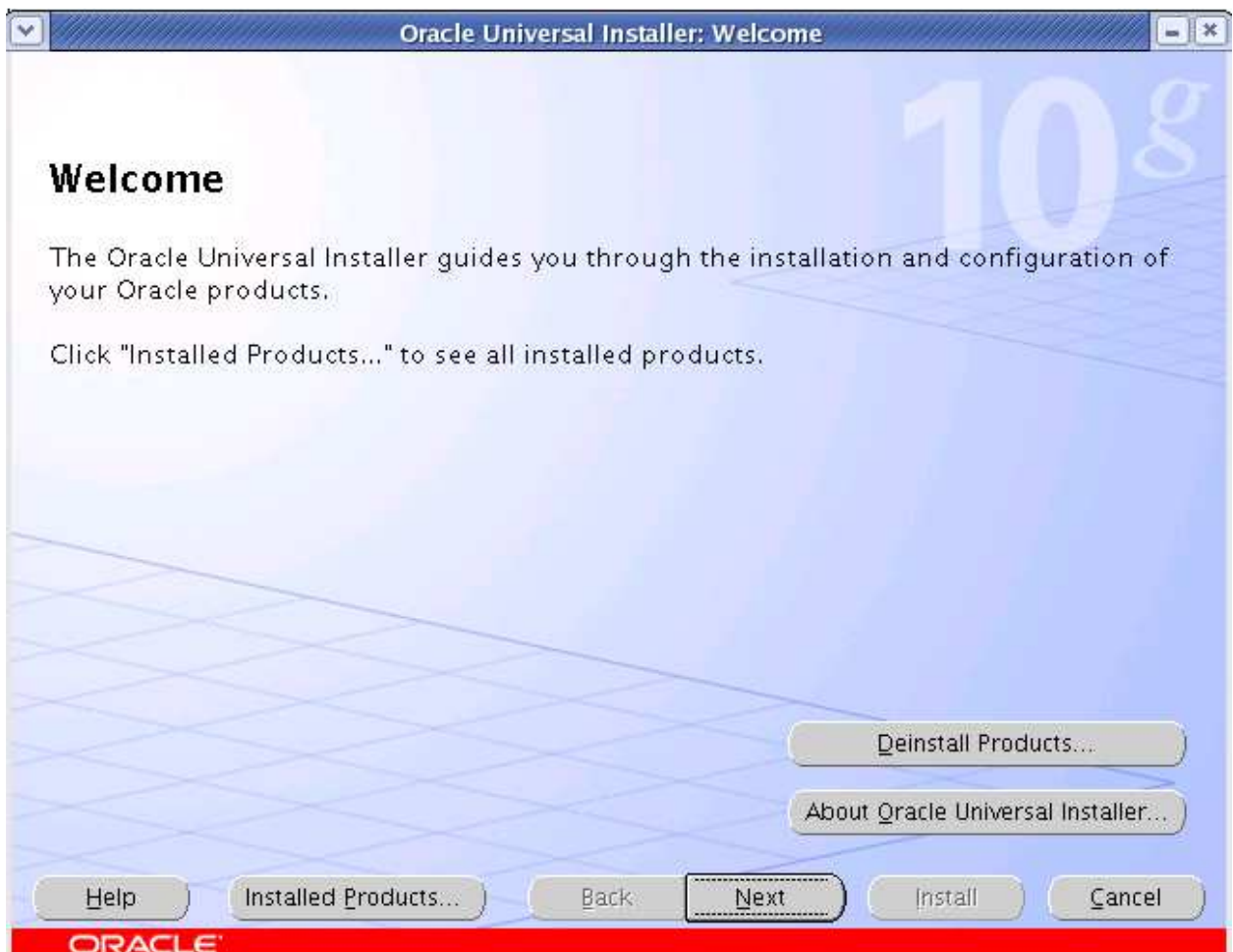
```
useradd oradisc -g dba
su - oradisc
vi .bash_profile
echo " Oracle 10g discoverer Environment for CRP1"
export ORACLE_HOME=/data1/DISC
export PATH=$PATH:$ORACLE_HOME/bin:$ORACLE_HOME/opmn/bin
export TNS_ADMIN=$ORACLE_HOME/network/admin
export
LD_LIBRARY_PATH=$ORACLE_HOME/lib:/lib:/usr/local/bin:/usr/lib:/usr/local/lib:/data1/DISC/opmn/lib
```

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1. Install Discoverer standalone

Download patch – 6687768 – else prereqs will fail

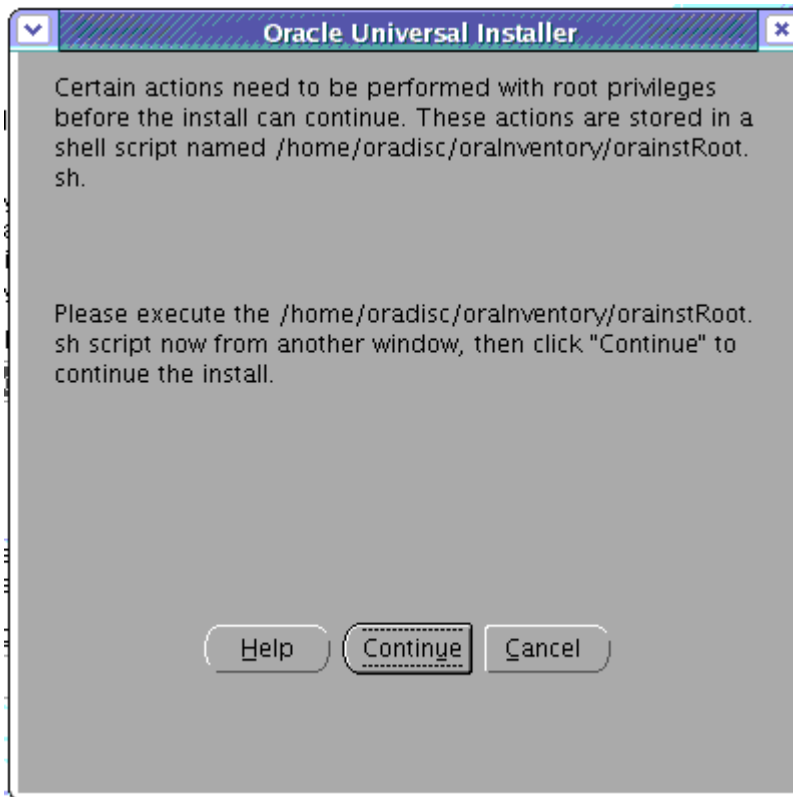
```
linux32 bash  
./runInstaller PREREQ_CONFIG_LOCATION=$PATCH_LOCATION/prereq -  
paramFile $PATCH_LOCATION/oraparam.ini
```



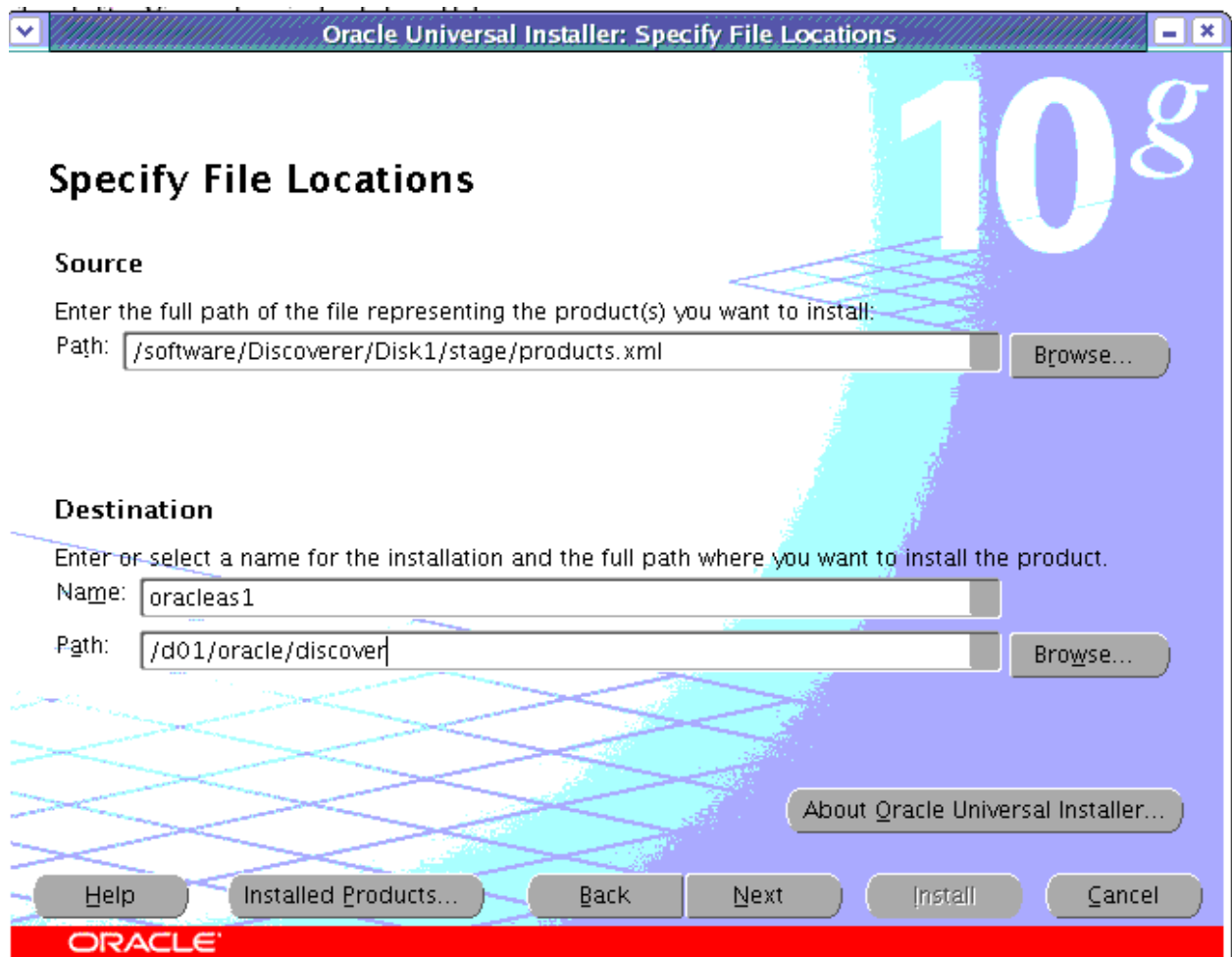
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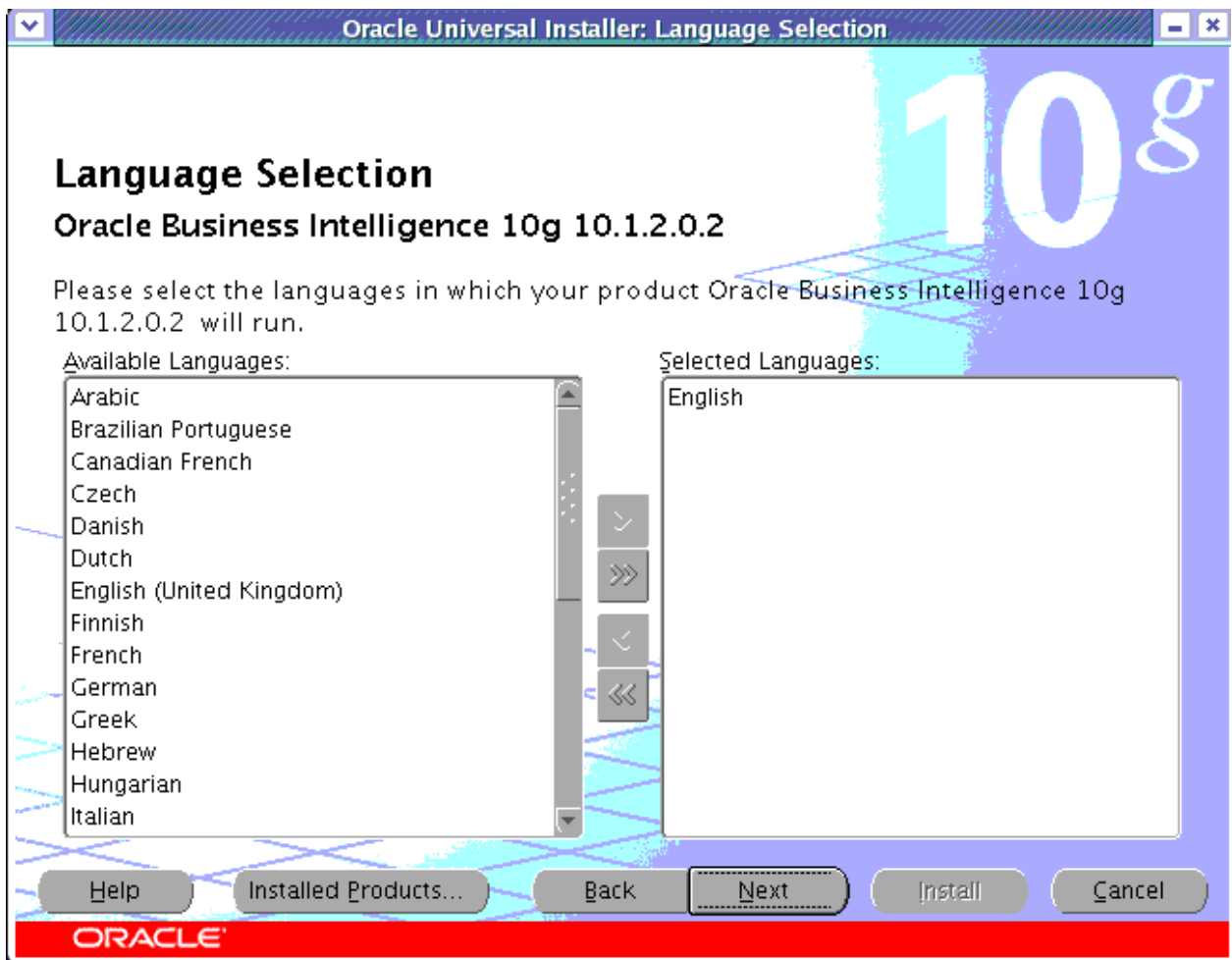
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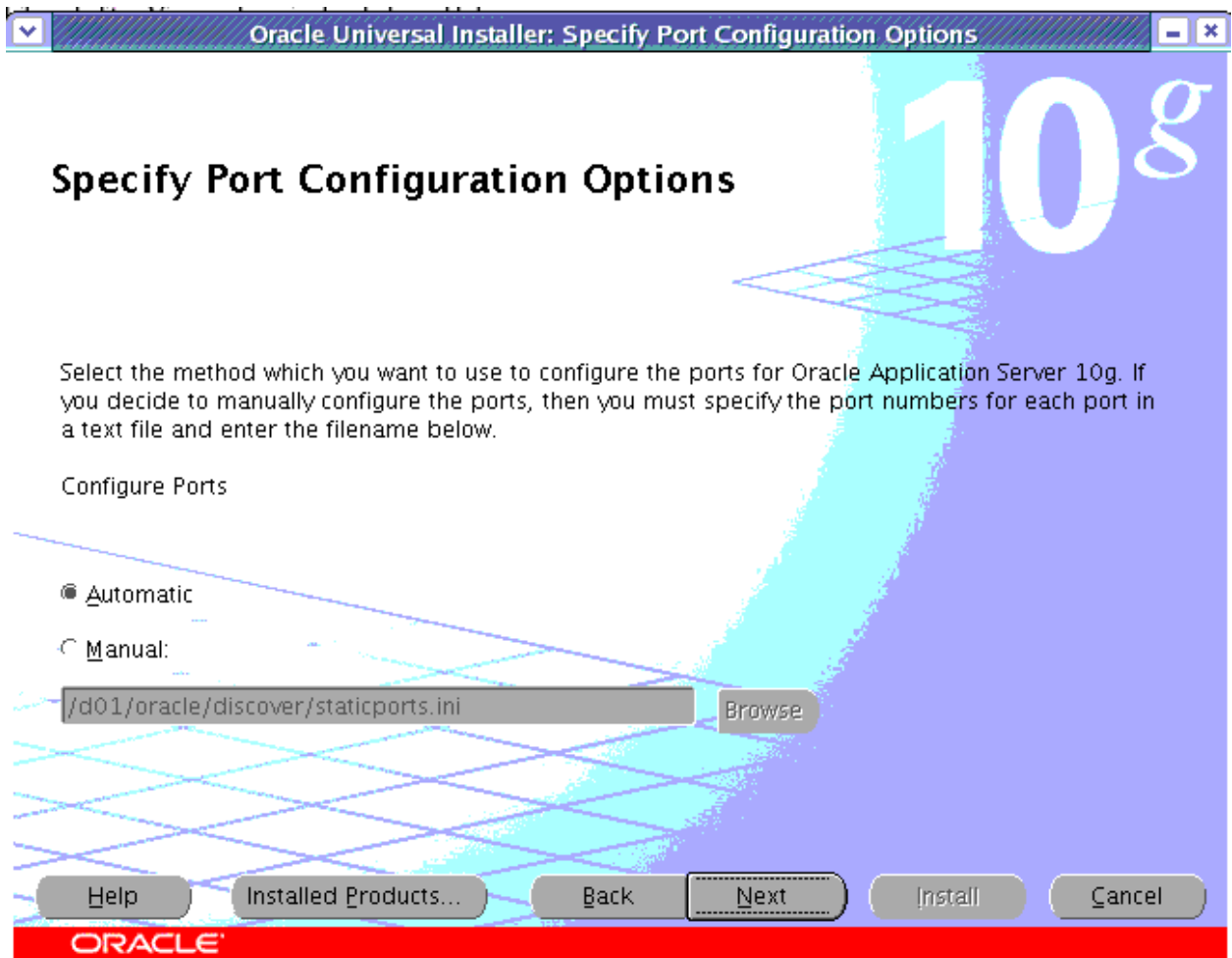
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Oracle Universal Installer: Specify Instance Name and ias_admin Password

Specify Instance Name and ias_admin Password

All Oracle Business Intelligence instances installed on a host must have unique names. The hostname and domain name of the host are appended to the instance name.

Each Oracle Business Intelligence instance has its own password, regardless of which user performed the installation. Passwords are not shared across instances, even if the instances were installed by the same user.

The password must have a minimum of 5 alphanumeric characters, maximum 30 characters, and at least one of the characters must be a number.

Administrator Username: ias_admin

Instance Name:

ias_admin Password:

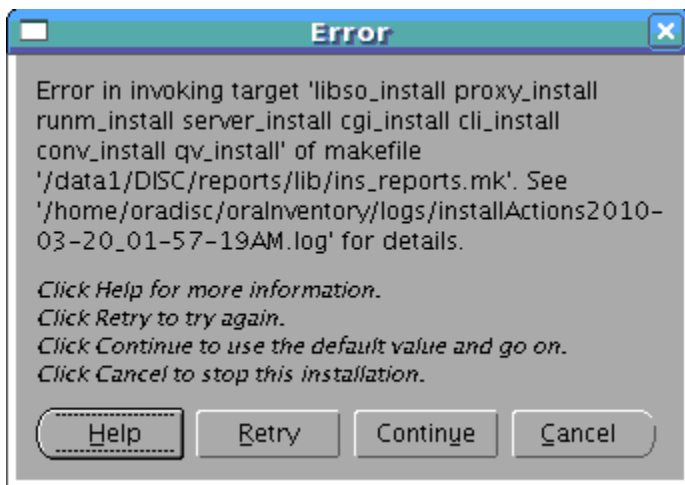
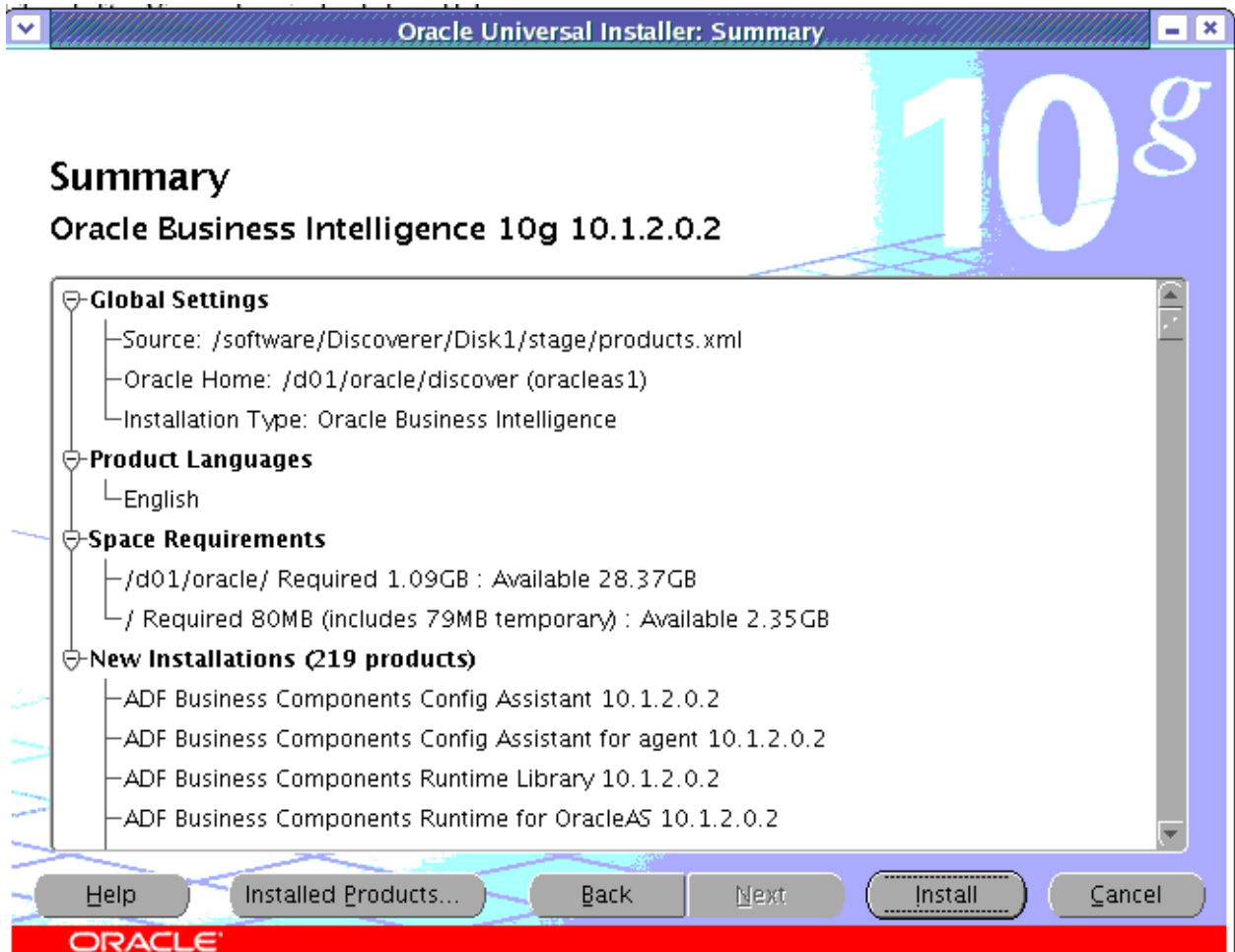
Confirm Password:

Help Installed Products... Back Next Install Cancel

ORACLE

oracle10g

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Solution - Any installation of Oracle Application Server 10g Release 2 (10.1.2.0.2) on OEL 5.x or RHEL 5.x in which Reports is getting installed will fail with reports relinking errors

Example output from installActions log:

```
/usr/lib/libXtst.so.6: undefined reference to `__stack_chk_fail@GLIBC_2.4'  
/usr/lib/libXtst.so.6: undefined reference to `__fprintf_chk@GLIBC_2.3.4'  
/usr/lib/libXtst.so.6: undefined reference to `__sprintf_chk@GLIBC_2.3.4'  
collect2: ld returned 1 exit status  
make: *** [rwrun] Error 1
```

End output from spawned process.

```
-----  
Exception thrown from action: make  
Exception Name: MakefileException  
Exception String: Error in invoking target 'proxy_install runm_install server_install cgi_install  
cli_install conv_install qv_install' of makefile  
'/opt/oracle/Forms10gR2/reports/lib/ins_reports.mk'
```

In order to prevent this, download and apply the required RPM listed below:

[http://oss.oracle.com/projects/compat-oracle/dist/files/Enterprise_Linux/xorg-x11-libs-compat-6.8.2-1.EL.33.0.1.i386.rpm]

As root, you can install this RPM package by issuing the following command

```
# rpm -i xorg-x11-libs-compat-6.8.2-1.EL.33.0.1.i386.rpm
```

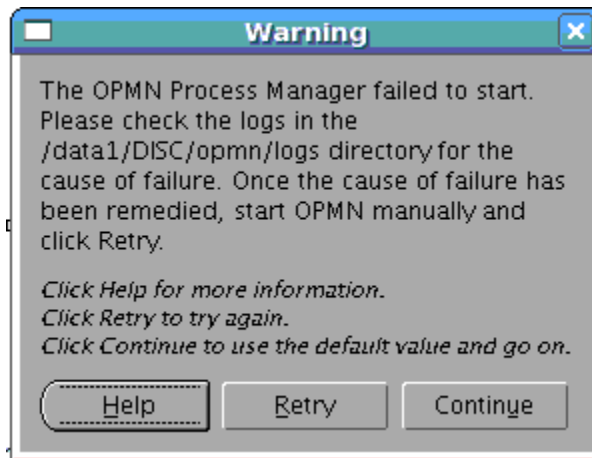
After the RPM, is installed, you will also need to override the /usr/lib/libXtst.so.6 with the one from /usr/X11R6/lib/libXtst.so.6. As root, issue the commands:

```
# mv /usr/lib/libXtst.so.6 /usr/lib/libXtst.so.6.ORG
```

```
# ln -s /usr/X11R6/lib/libXtst.so.6 /usr/lib/libXtst.so.6
```

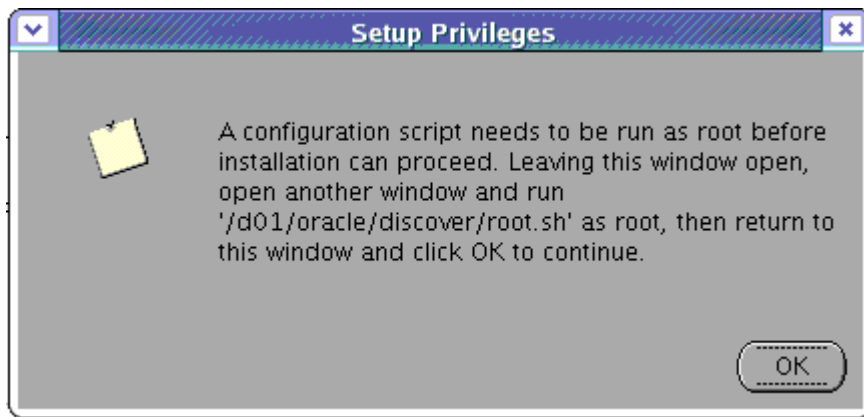
Click Retry

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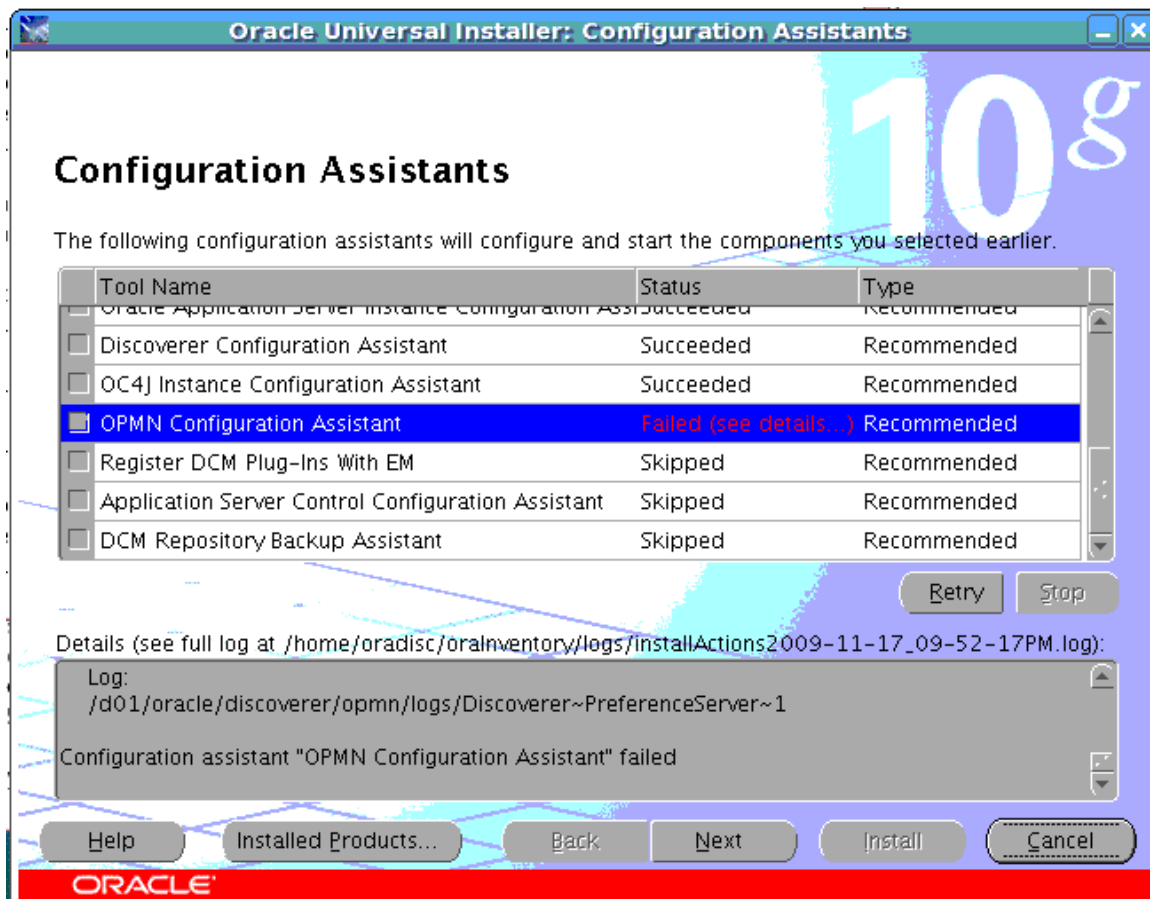


When performing any Oracle Application Server 10g Release 2 (10.1.2) installation, a pop-up error message box may appear indicating "opmn not started". The error message box appears just before the root.sh phase of the install. From the command line, issue the command "opmnctl status" and it should show that opmn is up and running. Hence, you can ignore this pop-up error message and continue with the installation.

Click continue



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configuration assistant "OPMN" Configuration Assistant failed

dis51pr: error while loading shared libraries: libpthread.so.0: cannot open shared object file

Enterprise Linux Enterprise Linux Server release 5.3 (Carthage)

cat /etc/enterprise-release or

cat /etc/redhat-release

<http://ocpdba.wordpress.com/2009/06/03/oracle-application-server-10g-10-1-2-requirements-for-linux-oel-5-and-rhel-5/>

1. Apply [Patch 6690831](#) if you are performing an Oracle Application Server 10g Release 2 (10.1.2) installation which includes Discoverer. Without this fix, the installation will fail during the OPMN Configuration Assistant phase because it cannot start up the Discoverer processes.

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```
oraInstall<date_time>.err
```

```
No checks to execute for entry point:oracle.business.intelligence.  
as_BIServicesPlease check the input  
file:/tmp/OraInstall<date_time>/ias_prereq.xml  
java.io.FileNotFoundException:  
/u01/patch/disco_chromavis04/Disk1/stage/Patches/oracle.java.javavm.visiorb/3.4  
.0.0.0c/1/DataFiles/lib.jar  
(No such file or directory)  
...  
Skipping `systeminfo.h': not a file or directory  
/u01/oracle/disco/bin/dis51pr: error while loading shared libraries:  
libpthread.so.0: cannot open shared object file: No such file or directory
```

The Discoverer processes fail to start because there is an LD_ASSUME_KERNEL setting that needs to be removed in opmn.xml for Discoverer. The issue can be fixed following the below steps:

- Download [Patch 6690831](#)
- Unzip it to a working directory
- Run the shell script provided in the patch
- After shell script runs successfully, go back to OUI install
- and press Retry on the OPMN Configuration Assistant

```
cd $ORACLE_HOME/opmn/conf  
mv opmn.xml opmn.xml.ORG  
cat opmn.xml.ORG | grep -v LD_ASSUME_KERNEL > opmn.xml  
diff opmn.xml.ORG opmn.xml  
$ORACLE_HOME/opmn/bin/opmnctl stopall  
$ORACLE_HOME/opmn/bin/opmnctl startall
```

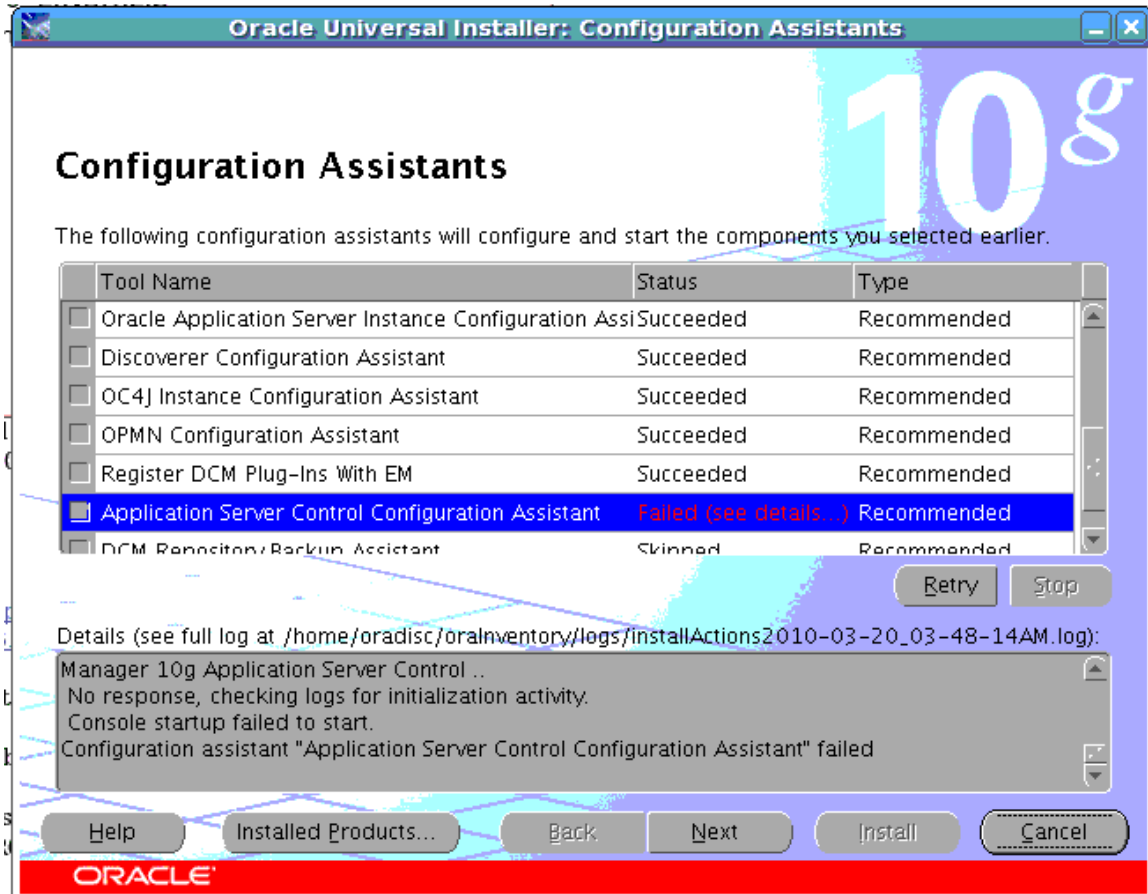
```
$ORACLE_HOME/opmn/bin/opmnctl status
```

```
-----+-----+-----+-----  
ias-component | process-type | pid | status  
-----+-----+-----+-----  
DSA           | DSA           | N/A | Down  
LogLoader     | logloaderd    | N/A | Down  
dcm-daemon    | dcm-daemon    | N/A | Down  
WebCache      | WebCache      | 6872 | Alive  
WebCache      | WebCacheAdmin | 6845 | Alive  
OC4J          | home          | 6846 | Alive  
OC4J          | OC4J_BI_Forms | 6848 | Alive
```

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```
HTTP_Server      | HTTP_Server      | 6853 | Alive
Discoverer      | ServicesStatus   | 6862 | Alive
Discoverer      | PreferenceServer | 6863 | Alive
```

Click Retry



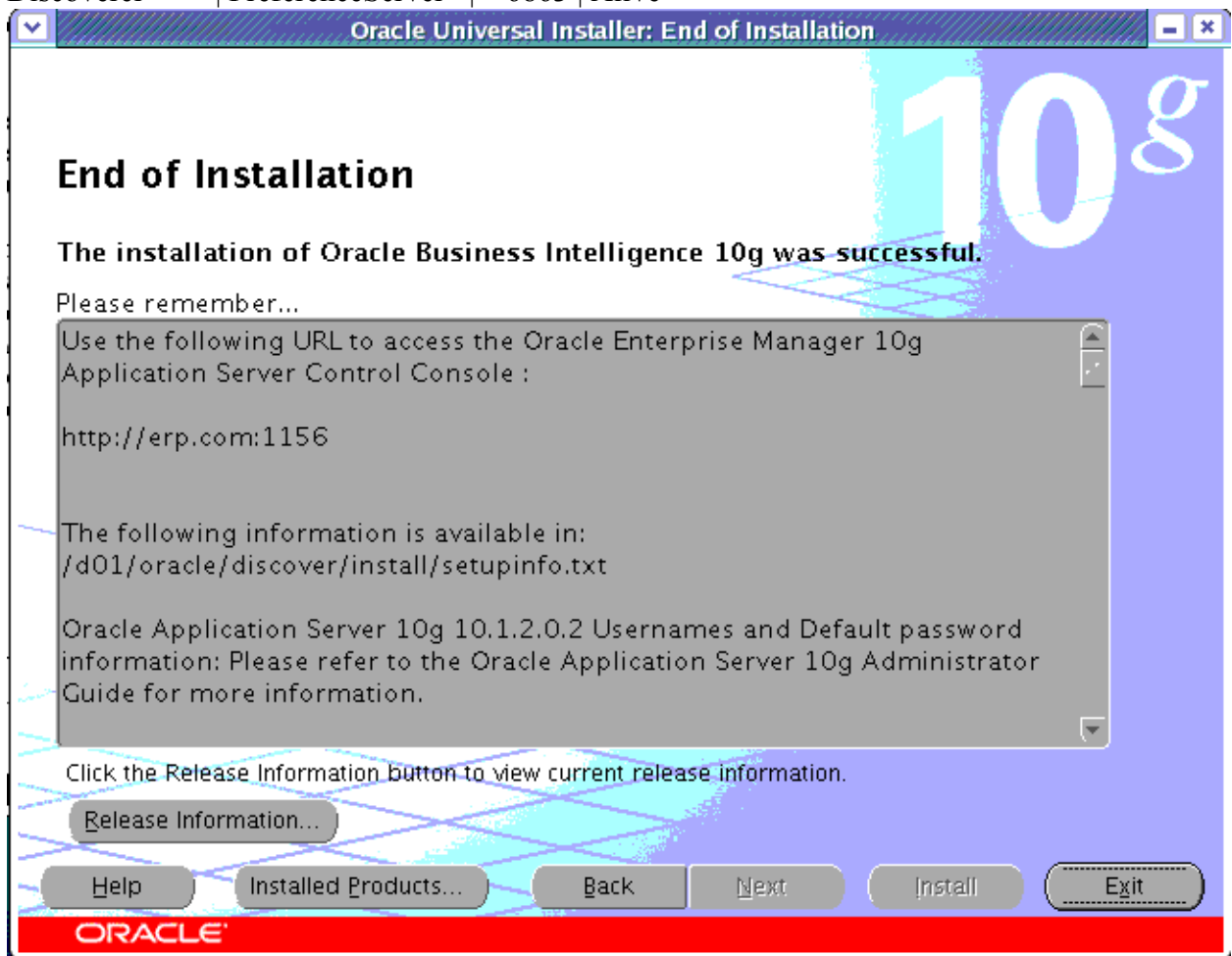
```
cd $ORACLE_HOME/opmn/conf
mv opmn.xml opmn.xml.ORG
cat opmn.xml.ORG | grep -v LD_ASSUME_KERNEL > opmn.xml
diff opmn.xml.ORG opmn.xml
$ORACLE_HOME/opmn/bin/opmnctl stopall
$ORACLE_HOME/opmn/bin/opmnctl startall
```

```
$ORACLE_HOME/opmn/bin/opmnctl status
```

```
-----+-----+-----+-----
ias-component | process-type | pid | status
-----+-----+-----+-----
```

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DSA	DSA	N/A	Down
LogLoader	logloaderd	N/A	Down
dcm-daemon	dcm-daemon	N/A	Down
WebCache	WebCache	6872	Alive
WebCache	WebCacheAdmin	6845	Alive
OC4J	home	6846	Alive
OC4J	OC4J_BI_Forms	6848	Alive
HTTP_Server	HTTP_Server	6853	Alive
Discoverer	ServicesStatus	6862	Alive
Discoverer	PreferenceServer	6863	Alive



The base version of Discoverer is
`cd $ORACLE_HOME/bin`
`strings -a dis51ws |grep "Discoverer Version:"`

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Discoverer Version:Server 10.1.2.48.18

Apply patch [5983622](#) - Upgrade Oracle Application Server to 10.1.2.3.0

Stop the services

cd \$ORACLE_HOME/opmn/bin

opmnctl status

```
Processes in Instance: discoverer.erp.com
```

ias-component	process-type	pid	status
DSA	DSA	N/A	Down
LogLoader	logloaderd	N/A	Down
dcm-daemon	dcm-daemon	8858	Alive
WebCache	WebCache	9148	Alive
WebCache	WebCacheAdmin	9110	Alive
OC4J	home	9111	Alive
OC4J	OC4J_BI_Forms	9113	Alive
HTTP_Server	HTTP_Server	9115	Alive
Discoverer	ServicesStatus	9120	Alive
Discoverer	PreferenceServer	9124	Alive

./opmnctl stopall

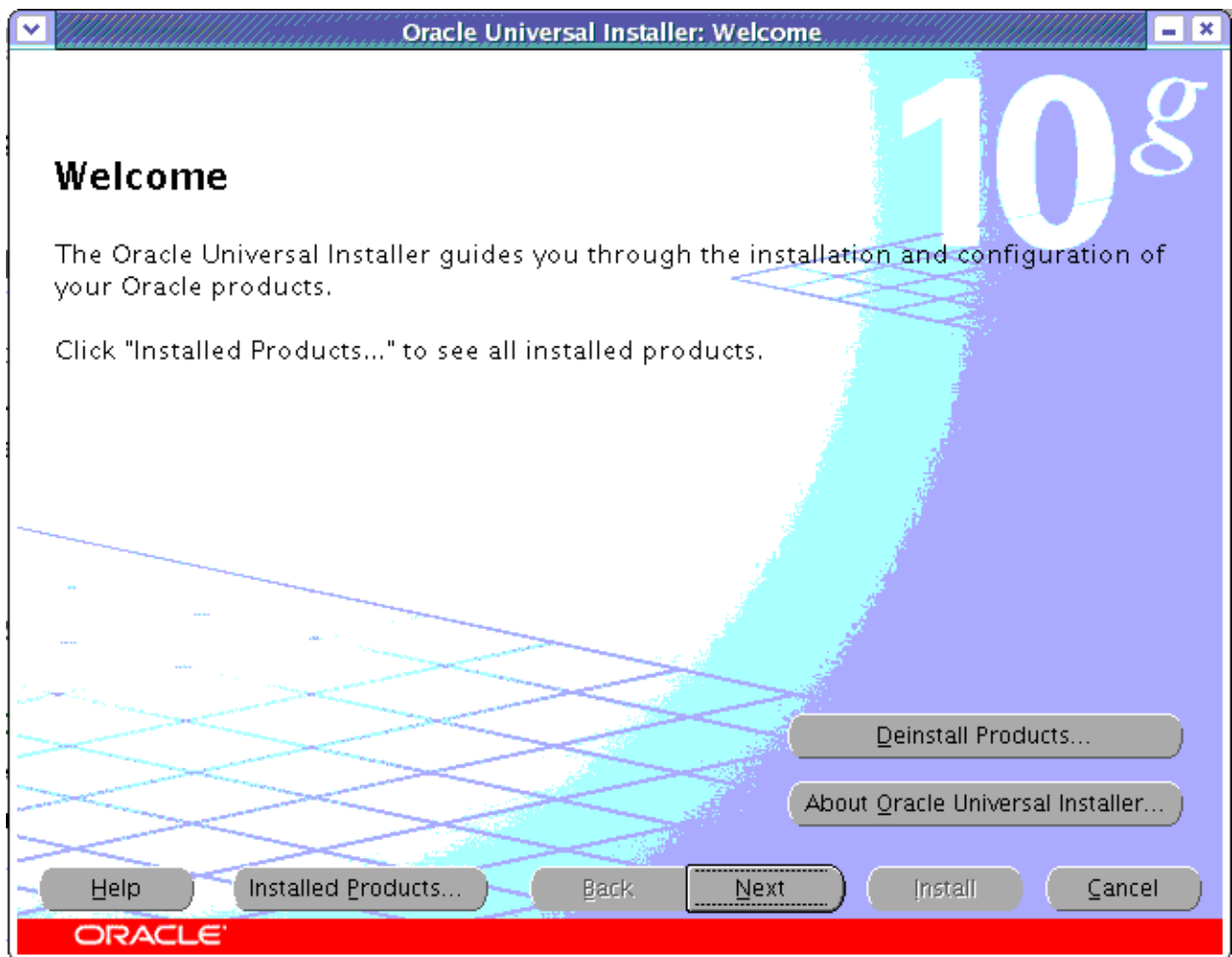
pwd

cd \$ORACLE_HOME/bin

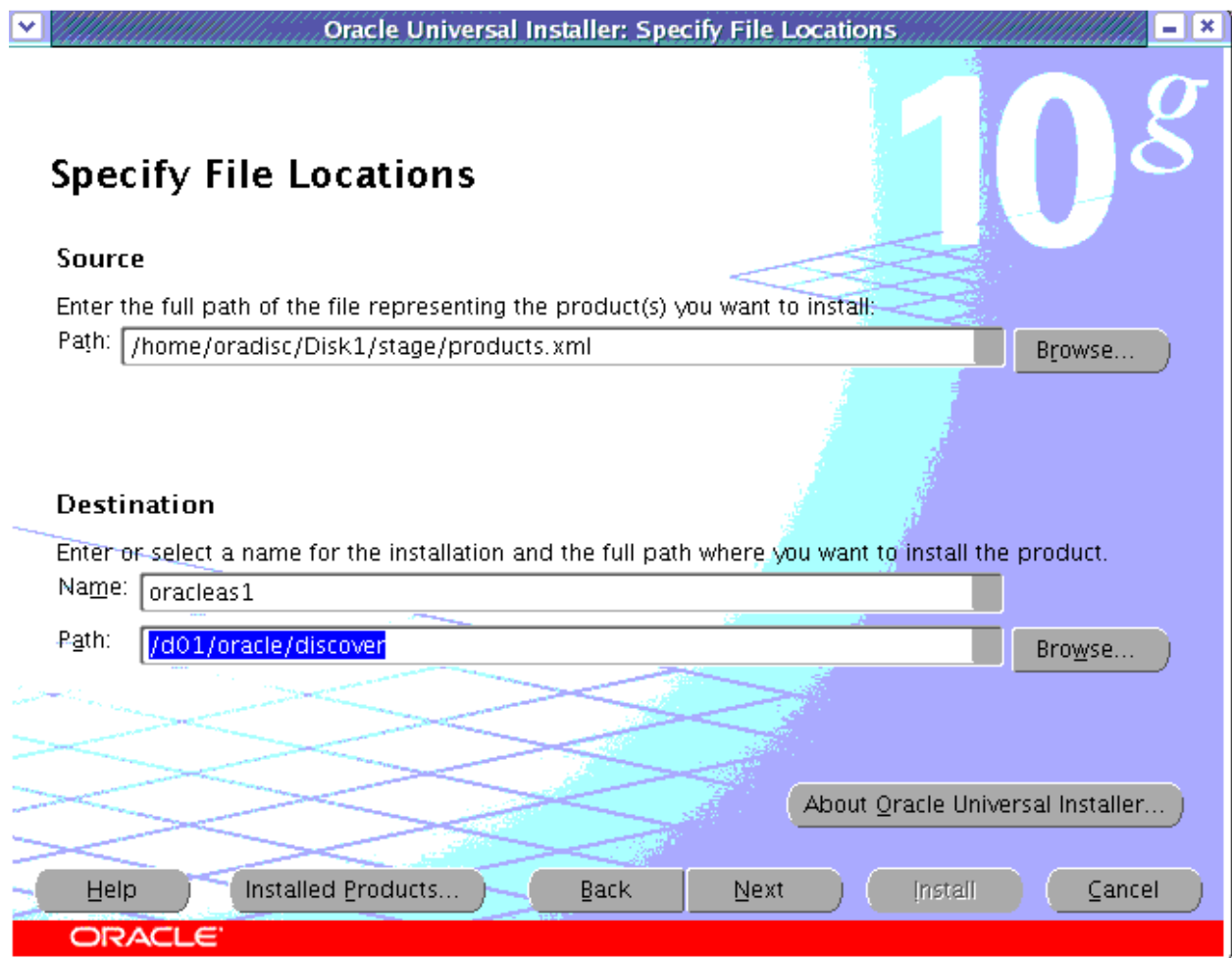
./emctl status iasconsole

./emctl stop iasconsole

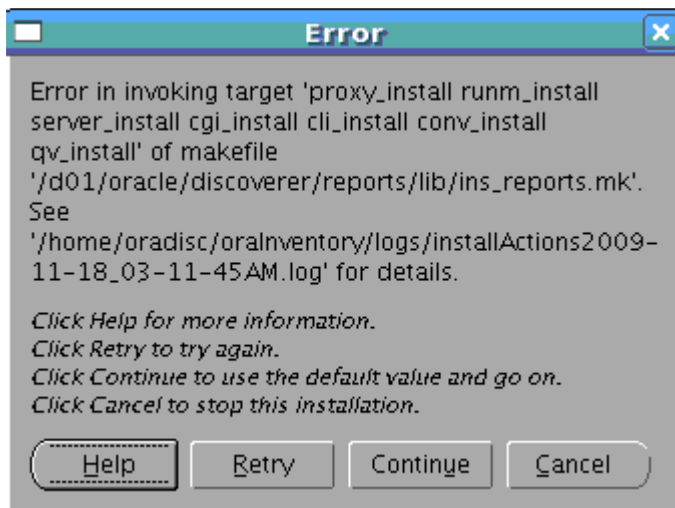
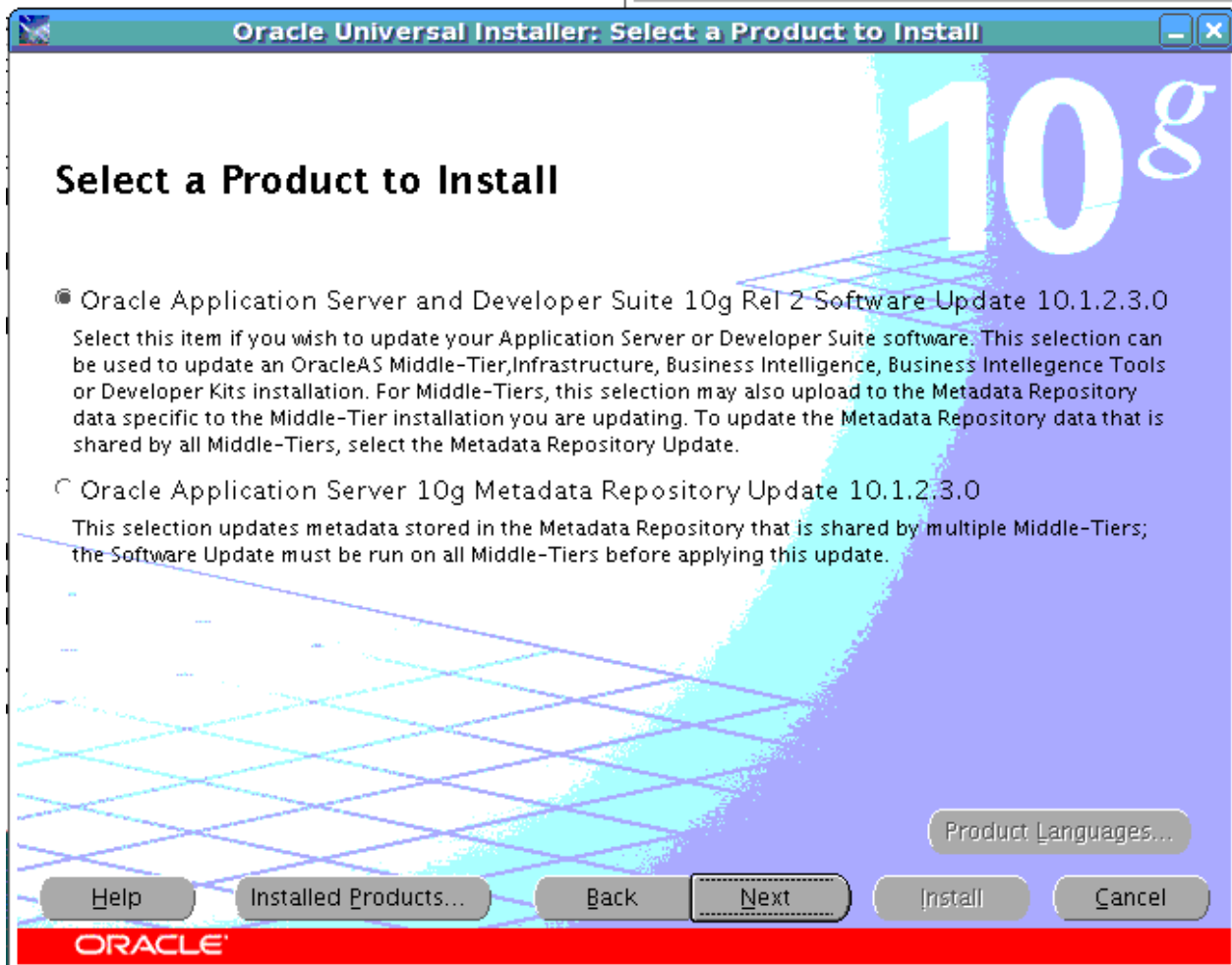
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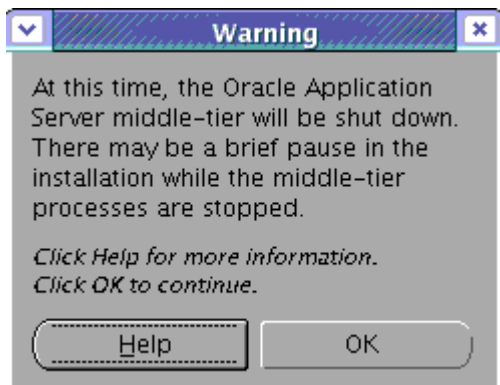
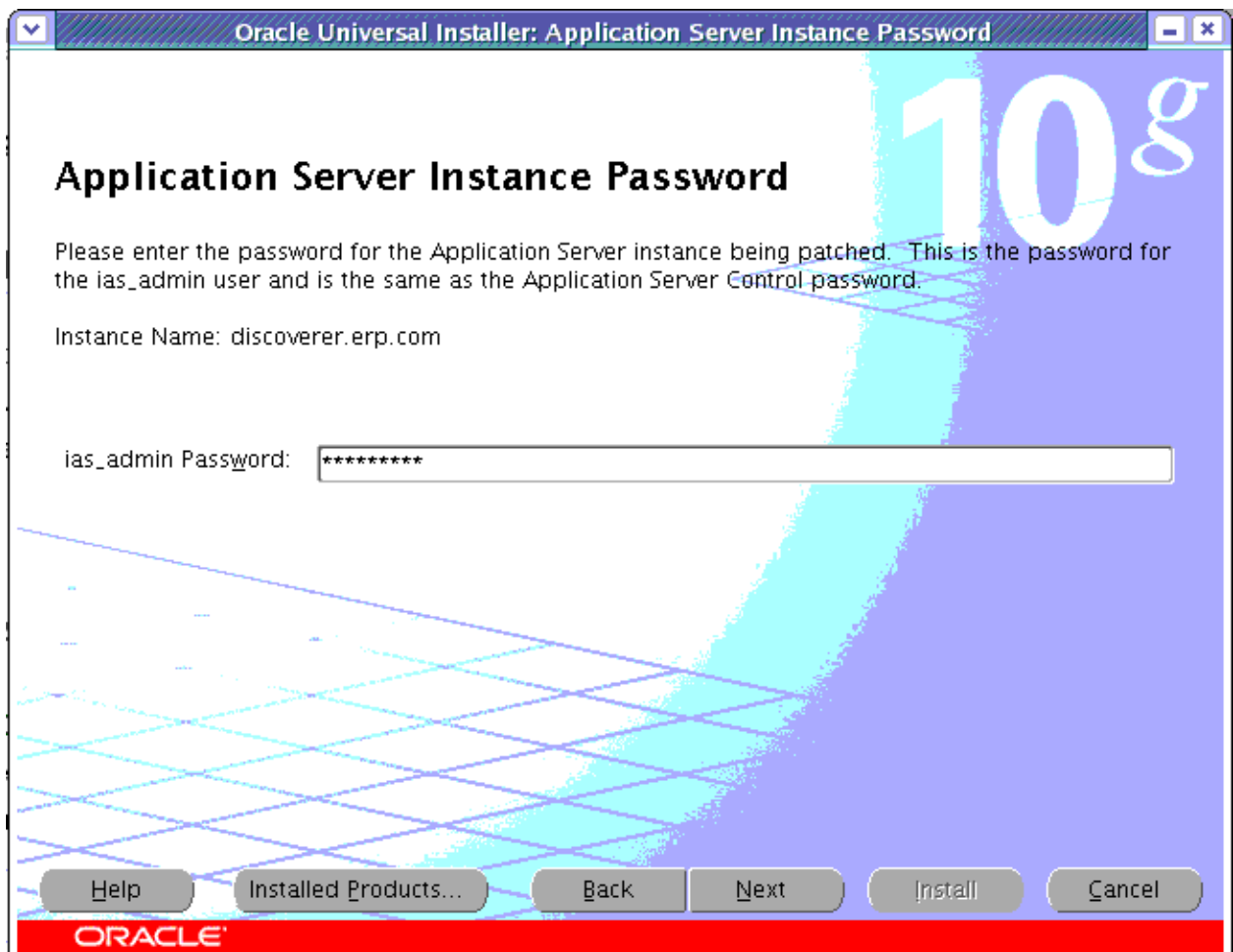
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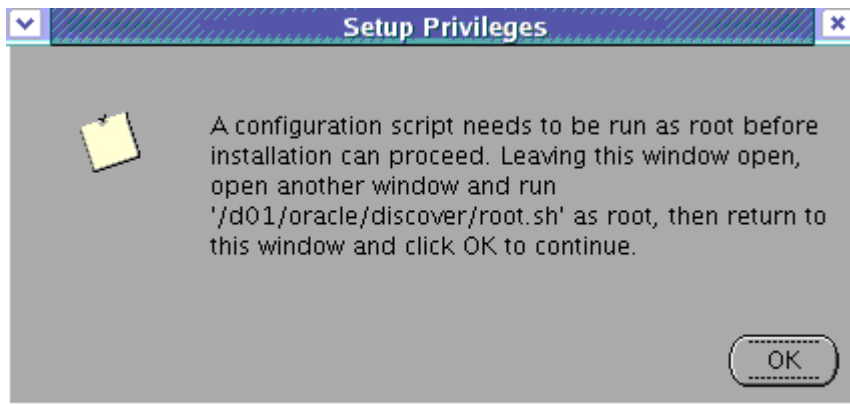
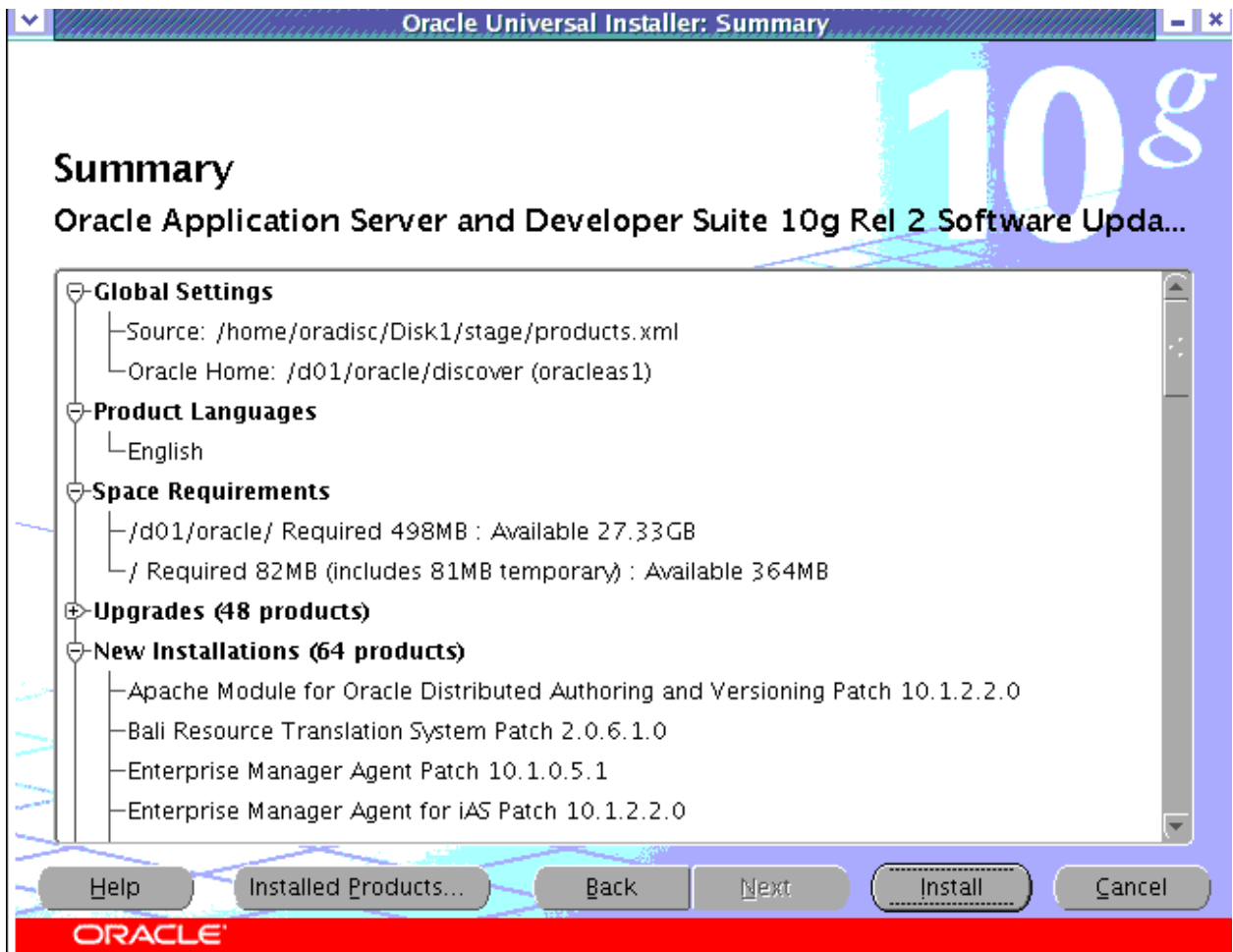
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ias-component	process-type	pid	status
LogLoader	logloaderd	N/A	Down
dcm-daemon	dcm-daemon	26771	Alive
WebCache	WebCache	28116	Alive
WebCache	WebCacheAdmin	28097	Alive
OC4J	home	28099	Alive
OC4J	OC4J_BI_Forms	28100	Alive
HTTP_Server	HTTP_Server	27096	Alive
Discoverer	ServicesStatus	28104	Alive
Discoverer	PreferenceServer	28107	Alive
DSA	DSA	N/A	Down

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```
cd $ORACLE_HOME/bin
strings -a dis51ws |grep "Discoverer Version:"
Discoverer Version:Server 10.1.2.55.26
```

Apply patch 8354043-

```
Set the ORACLE_HOME environment variable to point to the BI Midtier Home
Add $ORACLE_HOME/OPatch in the PATH
  export PATH=$PATH:$ORACLE_HOME/OPatch
Stop opmn
./opmnctl stopall
cd 8354043
OPatch/opatch apply
opatch lsinventory
  - Patch 8354043 applied on Sat
Start opmn
cd $ORACLE_HOME/opmn/bin
./opmnctl startall
```

Copy dbc file from Apps R12 to Discoverer Middle Tier

```
cd $ORACLE_HOME/discoverer/secure
cp $INST_TOP/appl/fnd/12.0.0/secure/PROD.dbc .
```

Add entry in tnsnames.ora of Discoverer Middle Tier pointing to R12 Database

```
cd $TNS_ADMIN
cat /d01/oracle/PROD/inst/apps/PROD_erp/ora/10.1.2/network/admin/tnsnames.ora >>
tnsnames.ora
start the services
cd $ORACLE_HOME/opmn/bin
./opmnctl startall
cd $ORACLE_HOME/bin
./emctl start iasconsole
```

Create the Discoverer Tablespace on R12 database

```
create tablespace DISCOVERER datafile
'/d01/oracle/PROD/db/apps_st/data/discoverer01.dbf'
```

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size 200M reuse extent management local uniform size 128K;

Create End User Layer (EUL) in R12 Database using eulapi - * only for Prod version (Non VISION instance)

```
$ORACLE_HOME/bin/eulapi -CREATE_EUL -APPS_MODE -CONNECT  
system/manager@prod -USER EUL_US -PASSWORD EUL_US -  
DEFAULT_TABLESPACE discoverer -TEMPORARY_TABLESPACE temp -  
EUL_LANGUAGE US -APPS_GRANT_DETAILS apps/apps
```

java: error while loading shared libraries: libpthread.so.0: cannot open shared object file:
No such file or directory

We just have comment LD_ASSUME_KERNEL variable in the discwb.sh which fixed
the issue. Metalink note 729952.1 for details

-- Set Applications Profile Options for Discoverer using AutoConfig

```
<oa_disco_server>  
  <disco_url oa_var="s_disco_url">http://linux1.com:7778</disco_url>  
  <disco_eul_prefix oa_var="s_disco_eul_prefix">EUL</disco_eul_prefix>  
</oa_disco_server>
```

```
cd $ADMIN_SCRIPTS_HOME  
sh adstpall.sh apps/apps  
sh adautocfg.sh
```

```
sh adstrtal.sh apps/apps
```

```
http://linux1.com:7778/discoverer/plus
```

```
ICX: Discoverer Default End User Layer Schema Prefix - EUL  
ICX: Discoverer End User Layer Language Override - American English  
ICX: Discoverer Launcher -  
http://linux1.com:7778/discoverer/plus?Connect=[APPS_SECURE]  
ICX: Discoverer Release - 10  
ICX: Discoverer Viewer Launcher -  
http://linux1.com:7778/discoverer/viewer?Connect=[APPS_SECURE]  
ICX: Discoverer use Viewer - Yes  
OKC:Discoverer Reports Enabled - No
```


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6.5. Regenerate your Business Views (Conditional)

6.5.1. Run the "Generate Business Views by Application" Concurrent Program

Regenerate your Business Views by running the "Generate Business Views by Application" concurrent program using the Business View Setup responsibility:

- * Logon to Oracle E-Business Suite as SYSADMIN
- * Choose the "Business Views Setup" responsibility
- * Navigate to Reports > Run > Pick Single Request > "Generate ALL Business Views"

In case you don't have "Business Views Setup" responsibility assigned to SYSADMIN user, please do the following:

- * Logon to Oracle E-Business Suite as SYSADMIN
- * Choose the "System Administrator" responsibility.
- * Navigate to Security > User > Define and add responsibility "Business Views Setup" to user SYSADMIN.

```
% sqlplus apps/<password>@<db>
SQL> select object_name from all_objects
where object_type = 'VIEW' and
status = 'INVALID' and
( object_name like '%FV_%' or object_name like '%FG_%' or
object_name like '%BV_%' or object_name like '%BG_%' )and
object_name in (select sobj_ext_table from eul_us.eul5_objs);
```

```
adadmin menu_option=CMP_INVALID workers=8
defaultsfile=$APPL_TOP/admin/$TWO_TASK/adalldefaults.txt
```

Set up E-Business Suite User/Responsibility for EUL Administration:
SYSADMIN/System Administrator

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```
$ORACLE_HOME/bin/eulapi -CONNECT EUL_US/EUL_US@crp2 -  
GRANT_PRIVILEGE -USER SYSADMIN -PRIVILEGE administration -PRIVILEGE  
all_admin_privs -LOG Grant_End_User_Layer_Administration_Privileges_crp2.log
```

```
$ORACLE_HOME/bin/eulapi -CONNECT eul_us/eul_us@crp2 -GRANT_PRIVILEGE  
-ROLE "System Administrator" -PRIVILEGE all_user_privs
```

```
cd $ORACLE_HOME/discoverer/discwb.sh  
comment LD_ASSUME_KERNEL
```

```
-- takes time  
Import Discoverer Content for E-Business Suite Release 12 using adupdeul.sh  
mode=complete
```

```
sh /d01/oracle/PROD/apps/apps_st/appl/au/12.0.0/discover/adupdeul.sh  
connect=sysadmin/sysadmin@crp2 resp="System Administrator"  
gwyuid=APPLSYSPUB/PUB findnam=APPS secgroup="Standard"  
topdir=/d01/oracle/PROD/apps/apps_st/appl/au/12.0.0/discover language=US  
eulprefix=EUL eultype=OLTP mode=complete iashome=/d01/10gdisc/10.1.2  
logfile=import_complete_eul_us_crp2.log
```

- Got the below error
- adupdeul.sh Failed to connect to database - Unable to connect to Oracle Applications database

Solution

1. Edit \$CONTEXT_FILE which is located in \$INST_TOP/appl/admin
2. Change

```
<appserverid_authentication  
oa_var="s_appserverid_authentication">SECURE</appserverid_authenti  
cation>
```

to

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```
<appserverid_authentication  
oa_var="s_appserverid_authentication">OFF</appserverid_authentication>
```

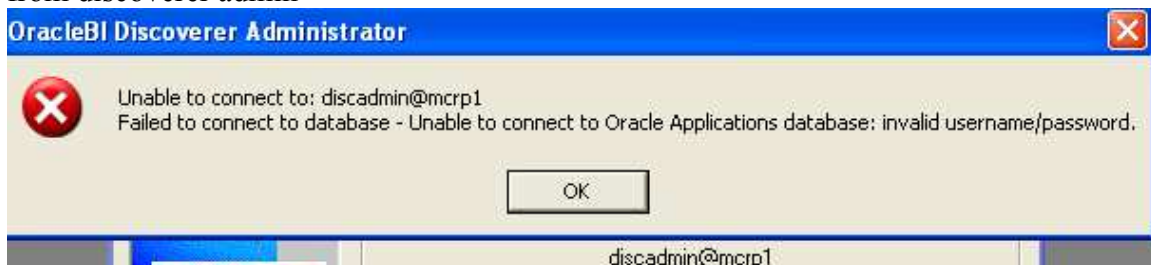
3. Run `adautocfg.sh` to instantiate the changes
4. Re-run `adupdeul.sh` script
5. When `adupdeul.sh` script completes without error, change the setting back to SECURE and re-rerun `adautocfg.sh`

```
-- Refresh the Discoverer 10.1.2 End User Layer  
sh /d01/oracle/PROD/apps/apps_st/appl/au/12.0.0/discover/adrfseul.sh connect=  
sysadmin/sysadmin@crp2 resp="System Administrator" gwyuid=APPLSYSPUB/PUB  
fndnam=APPS secgroup="Standard" eulschema=EUL_US eulpassword=EUL_US  
twotask=crp2 iashome=/d01/10gdisc/10.1.2 logfile=refresh_eul_us_crp2.log
```

Login to “Discoverer Administrator” from your desktop as `eul_us/eul_us` user and go to `tools\manage folders`. When you pick inventory from the list, you should see folders assigned to it. Now we have zero assigned. Same with lot of other Business Areas. Do not do anything in Production for now. I am refreshing using Administrator.

<http://erp.com:7778>

from discoverer admin



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```
<appserverid_authentication  
oa_var="s_appserverid_authentication">SECURE</appserverid_authentication>
```

Change SECURE – OFF in \$CONTEXT_FILE

Run autoconfig

ORACLE Discoverer Plus
Business Intelligence

Connect to OracleBI Discoverer

Welcome to OracleBI Discoverer.

Connect Directly

Enter your connection details below to connect directly to OracleBI Discoverer.

* Indicates required field.

Connect To

* User Name

* Password

* Database

End User Layer

Responsibility

Locale

Author – *A.Kishore*
<http://www.appsdba.info>

ORACLE Discoverer Plus
Business Intelligence

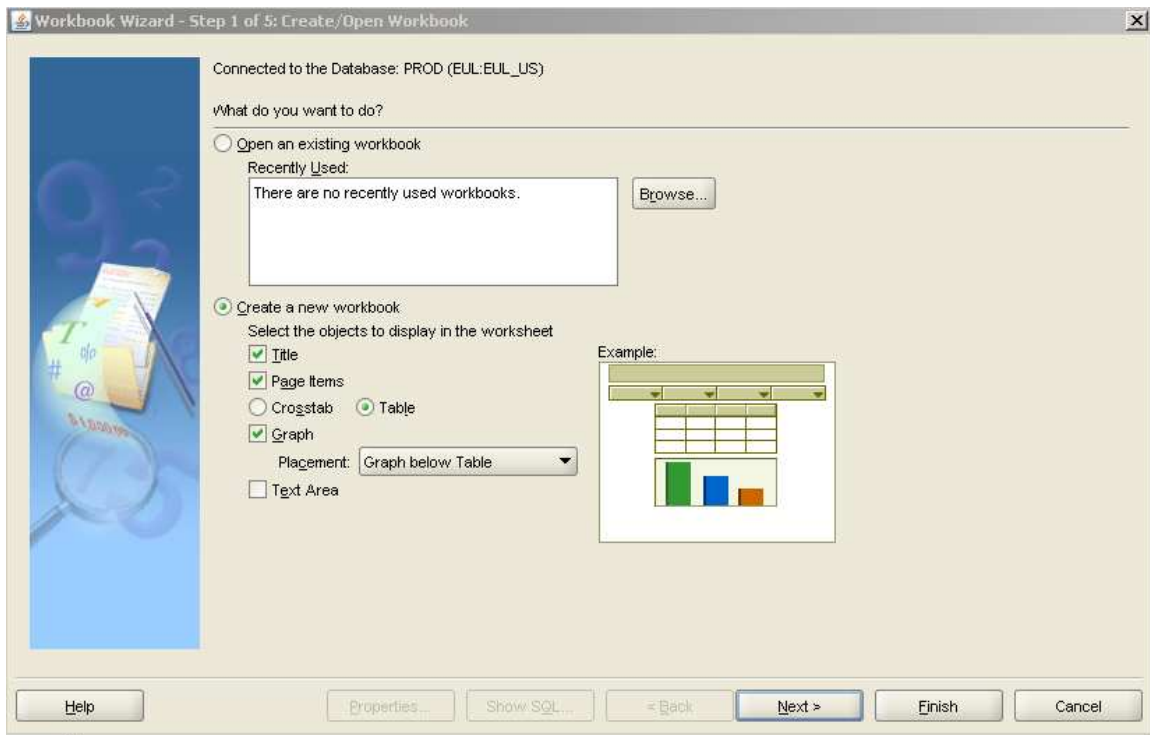
Account Details: Select Responsibility

More than one Responsibility exists for the account you have chosen. Please select

Responsibility

Select a Responsibility.

Locale	English (United States)
Database User Name	sysadmin
Database	PROD
Connection Type	APPS
Responsibility	Application Developer



Author – *A.Kishore*
<http://www.appsdba.info>

Error and Solutions

```
$ORACLE_HOME/bin/eulapi -CREATE_EUL -APPS_MODE -CONNECT  
system/manager@prod -USER EUL_US -PASSWORD EUL_US -  
DEFAULT_TABLESPACE discoverer -TEMPORARY_TABLESPACE temp -  
EUL_LANGUAGE US -APPS_GRANT_DETAILS apps/apps
```

error while loading shared libraries: libpthread.so.0: cannot open shared object file:

Solution

Navigate to: \$ORACLE_HOME/discoverer.
Backup the discwb.sh environment script file.
Remove "export LD_ASSUME_KERNEL=2.4.19" from the discwb.sh file.

References:

<http://onlineappsdba.com/index.php/2009/06/17/discoverer-with-oracle-apps-r12/>
<http://oracledbas.blogspot.com/2008/12/discoverer-10g-with-oracle-e-business.html>

For complete step by step doc check Metalink Note **373634.1**