

ORACLE 11G DATABASE SOFTWARE INSTALLATION : INSTALLATION AND CONFIGURATION GUIDE

Inderpal S. Johal

INTRODUCTION

This document will give details of Oracle 11g RAC installation on RHEL 4 .

ORACLE 11G SOFTWARE INSTALLATION STEPS

1. Cluster Verification for Pre-Requisite.
2. Check the Environmental Variables
3. Launch OUI.

CLUSTER VERIFICATION BEFORE STARTING THE 11G SOFTWARE INSTALLATION

VERIFYING ORACLE CLUSTERWARE REQUIREMENTS WITH CVU

\$./runcluvfy.sh stage -pre dbinst -n db02pn

Performing pre-checks for database installation

Checking node reachability...

Node reachability check passed from node "db02pn".

Checking user equivalence...

User equivalence check passed for user "oracle".

Checking administrative privileges...

User existence check passed for "oracle".

Group existence check passed for "oinstall".

Membership check for user "oracle" in group "oinstall" [as Primary] passed.

Group existence check passed for "dba".

Membership check for user "oracle" in group "dba" passed.

Administrative privileges check passed.

Checking node connectivity...

Node connectivity check passed for subnet "172.xx.xx.0" with node(s) db02pn.

Node connectivity check passed for subnet "10.0.0.0" with node(s) db02pn.

Interfaces found on subnet "172.xx.xx.0" that are likely candidates for VIP:

db02pn eth0:172.xx.xx.34 eth0:172.xx.xx.42

Interfaces found on subnet "10.0.0.0" that are likely candidates for a private interconnect:

db02pn eth2:10.0.0.2

Node connectivity check passed.

Checking system requirements for 'database'...

Total memory check passed.

Free disk space check passed.

Swap space check passed.

System architecture check passed.

Kernel version check passed.

Package existence check passed for "binutils-2.15.92.0.2-10.EL4".

Package existence check passed for "compat-db-4.1.25-9".

...

...

Package existence check passed for "sysstat-5.0.5-1".

Kernel parameter check passed for "semmsl".

Kernel parameter check passed for "semmsn".

```
...
...
Kernel parameter check passed for "wmem_max".
Group existence check passed for "dba".
User existence check passed for "nobody".

System requirement passed for 'database'

Checking CRS integrity...
Checking daemon liveness...
Liveness check passed for "CRS daemon".
Checking daemon liveness...
Liveness check passed for "CSS daemon".
Checking daemon liveness...
Liveness check passed for "EVM daemon".

Checking CRS health...
CRS health check passed.

CRS integrity check passed.

Checking node application existence...
Checking existence of VIP node application (required)
Check passed.
Checking existence of ONS node application (optional)
Check passed.
Checking existence of GSD node application (optional)
Check passed.

Pre-check for database installation was successful.
```

\$. /runcluvfy.sh stage -pre dbinst -n db02pn - verbose

```
Performing pre-checks for database installation
```

```
Checking node reachability...
...
...
Pre-check for database installation was successful.
```

CHECK THE ENVIRONMENTAL VARIABLES

This will be done on First node only as then will be copied to all nodes selected in the installation

```
$ unset ORACLE_HOME
$ unset ORA_CRS_HOME
$ unset TNS_ADMIN
```

INVOKE OUI TO START ORACLE 11G SOFTWARE INSTALLATION.

```
[oracle@db02pn]$ /media/cdrecorder/runInstaller
```

```
Starting Oracle Universal Installer...
```

```
Checking Temp space: must be greater than 80 MB. Actual 47491 MB Passed
```

```
Checking swap space: must be greater than 150 MB. Actual 2047 MB Passed
```

```
Checking monitor: must be configured to display at least 256 colors. Actual 256  
Passed
```

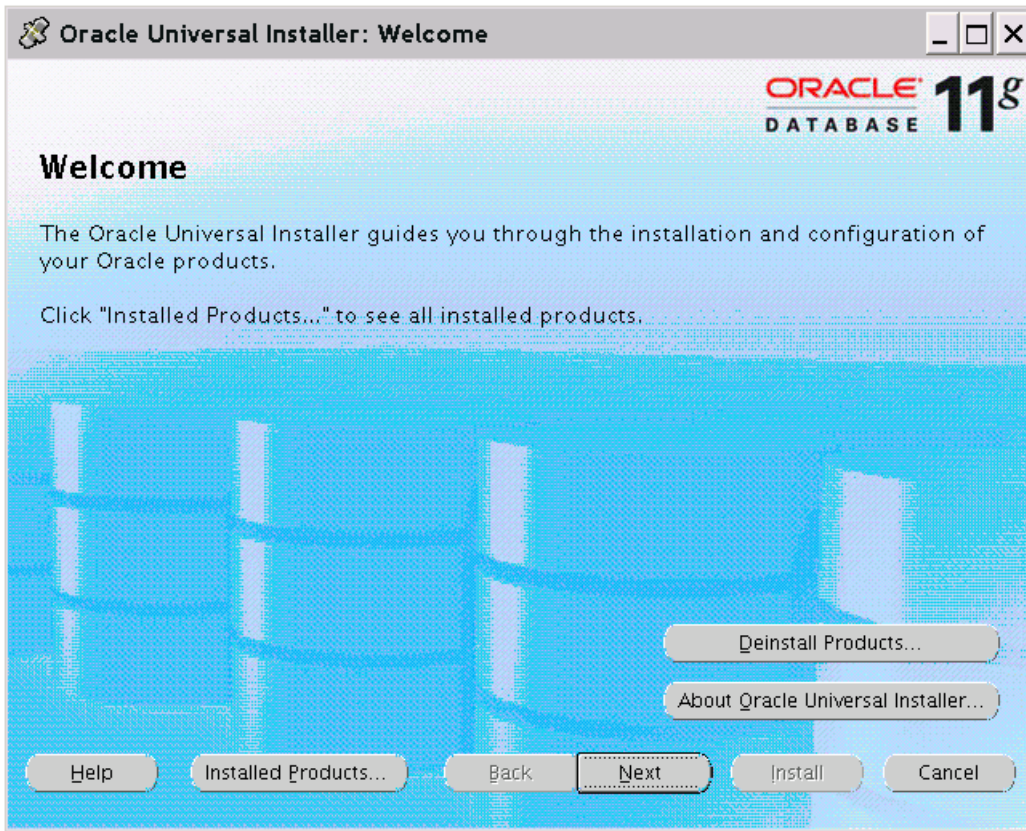
```
Preparing to launch Oracle Universal Installer from /tmp/OraInstall2007-08-10_12-57-  
21PM. Please wait ...-bash-3.00$ Oracle Universal Installer, Version 11.1.0.6.0
```

```
Production
```

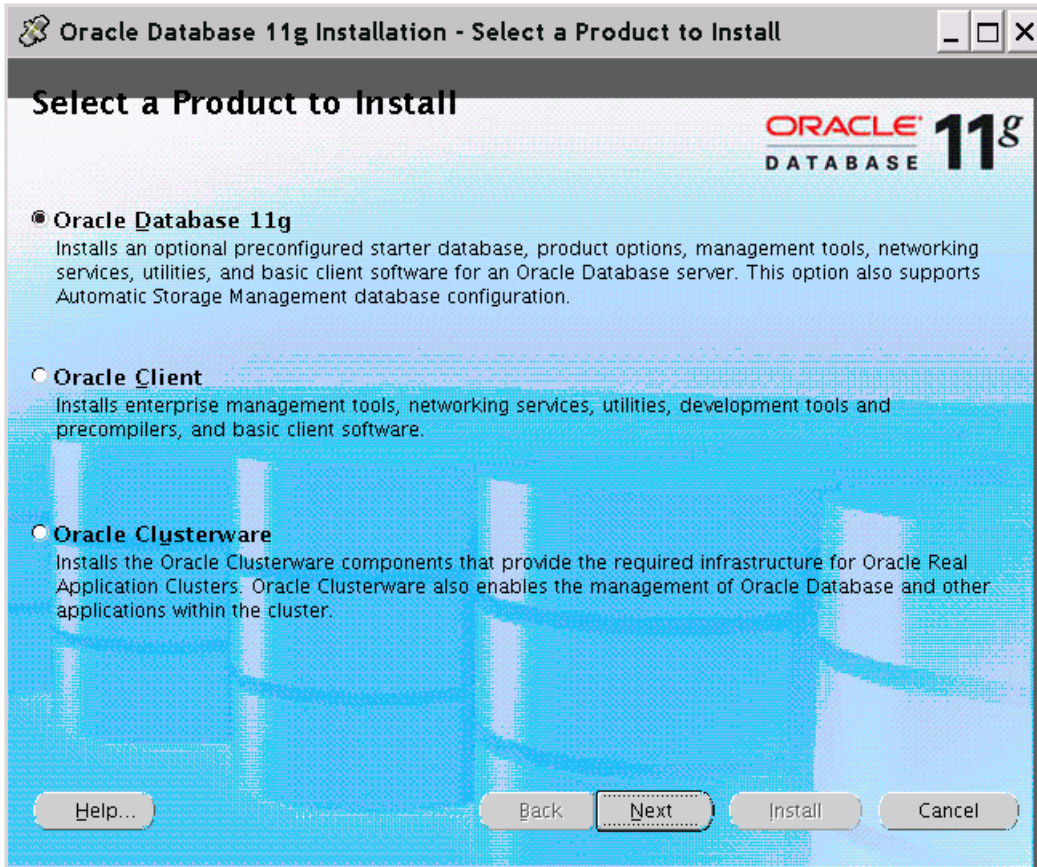
```
Copyright (C) 1999, 2007, Oracle. All rights reserved.
```



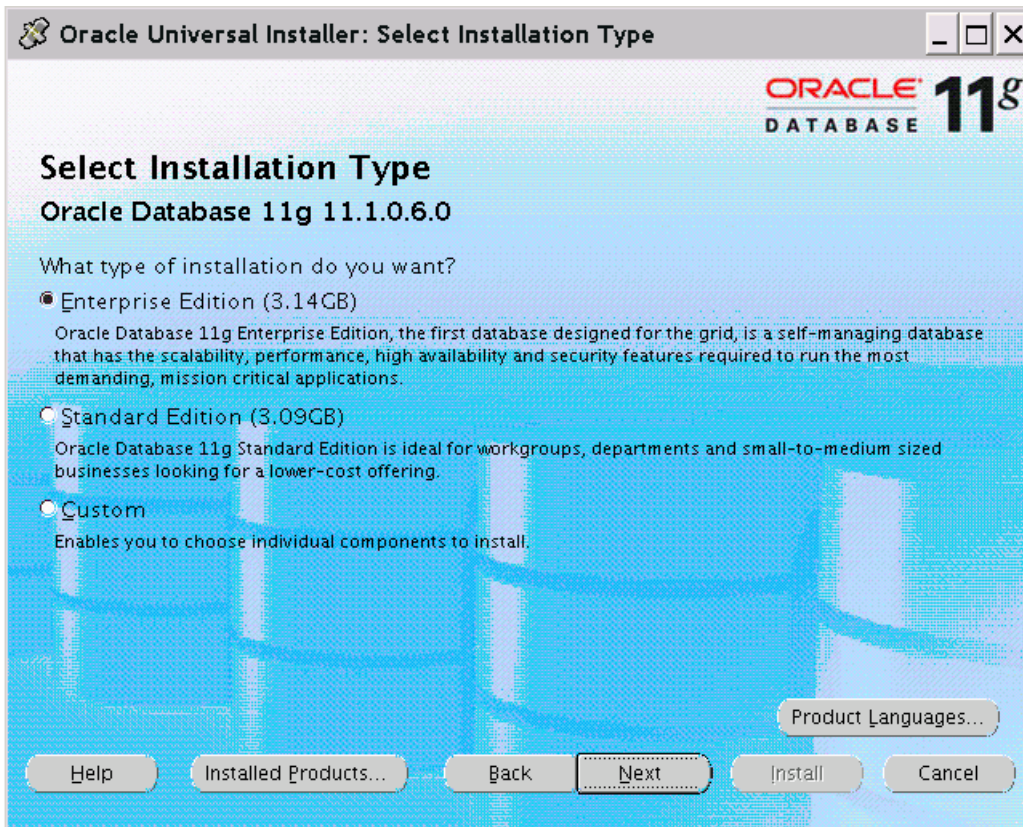
*STEP 1 : WELCOME SCREEN. CLICK **NEXT** TO CONTINUE*



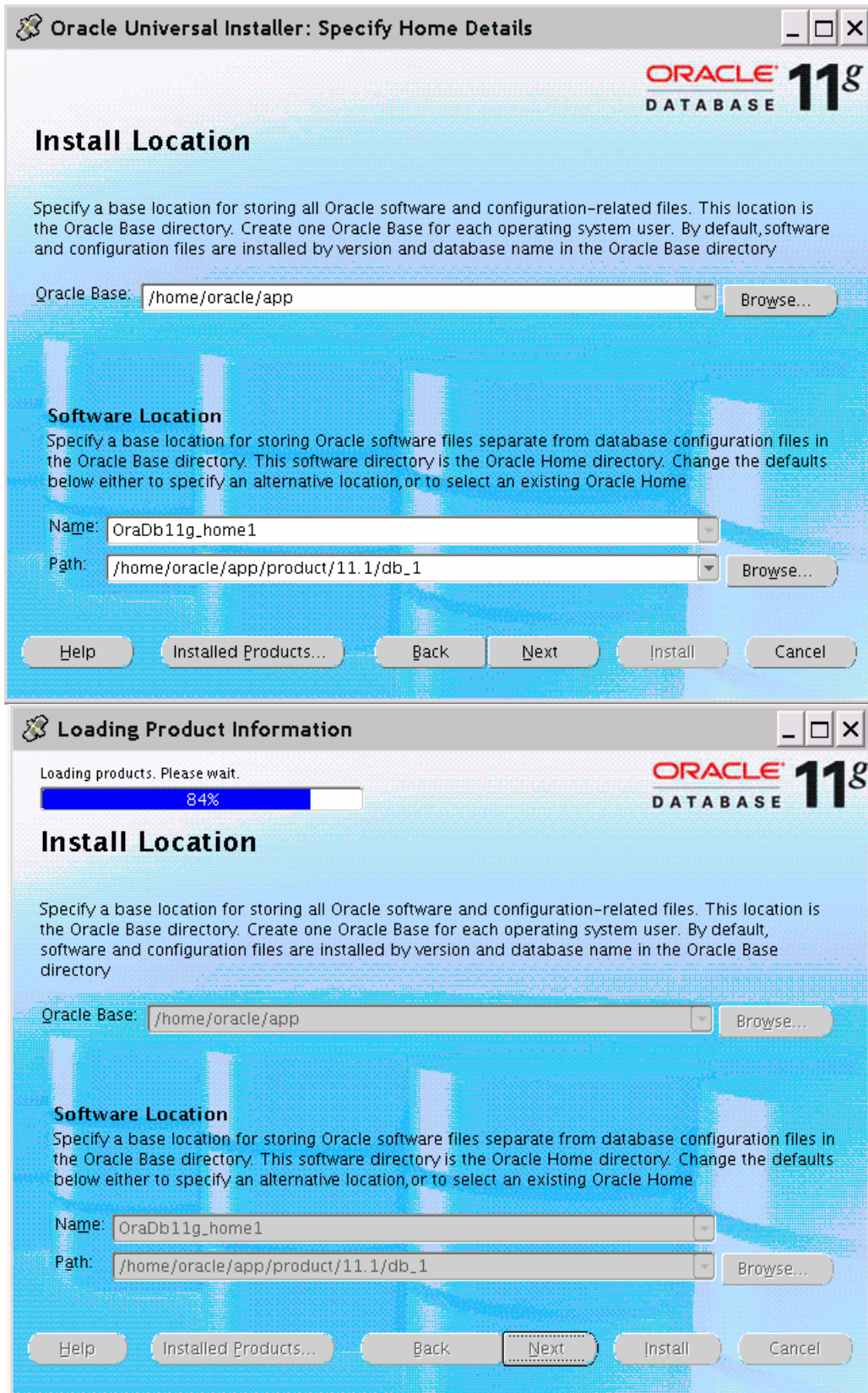
*STEP 2 : ON SELECT A PRODUCT TO INSTALL SCREEN, SELECT ORACLE DATABASE 11. CLICK **NEXT** TO CONTINUE*



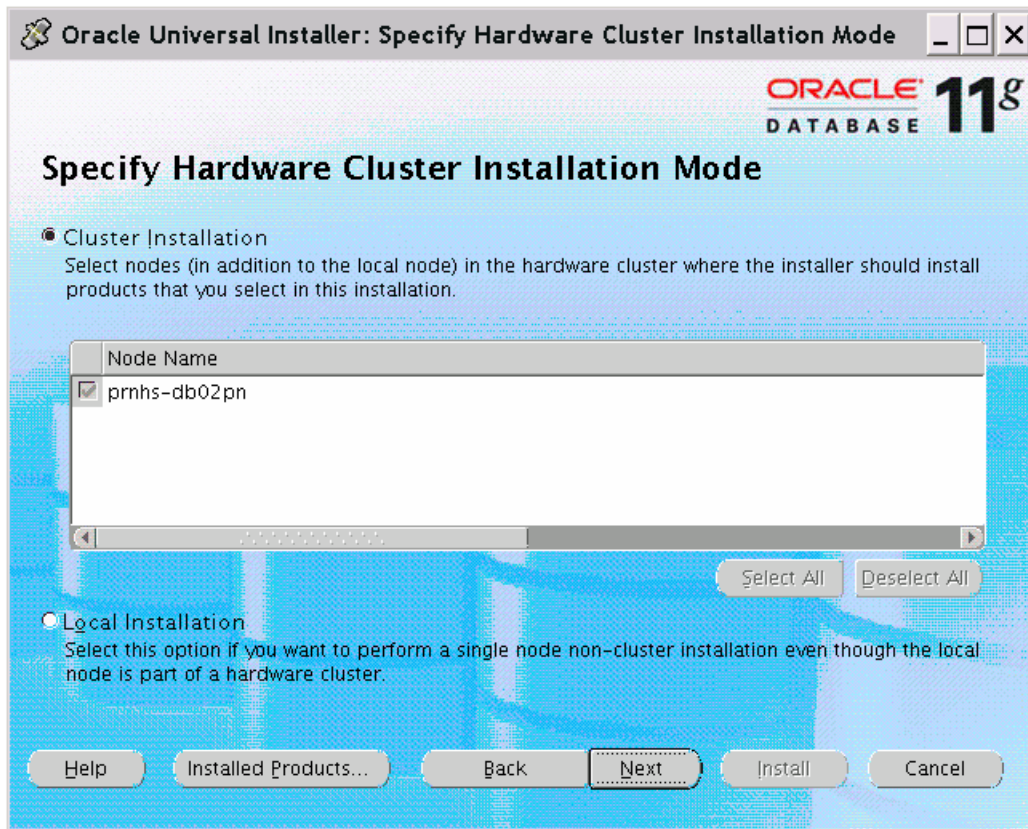
*STEP 3 : SELECT INSTALLATION TYPE. SELECT ENTERPRISE EDITION AND CLICK **NEXT** TO CONTINUE*



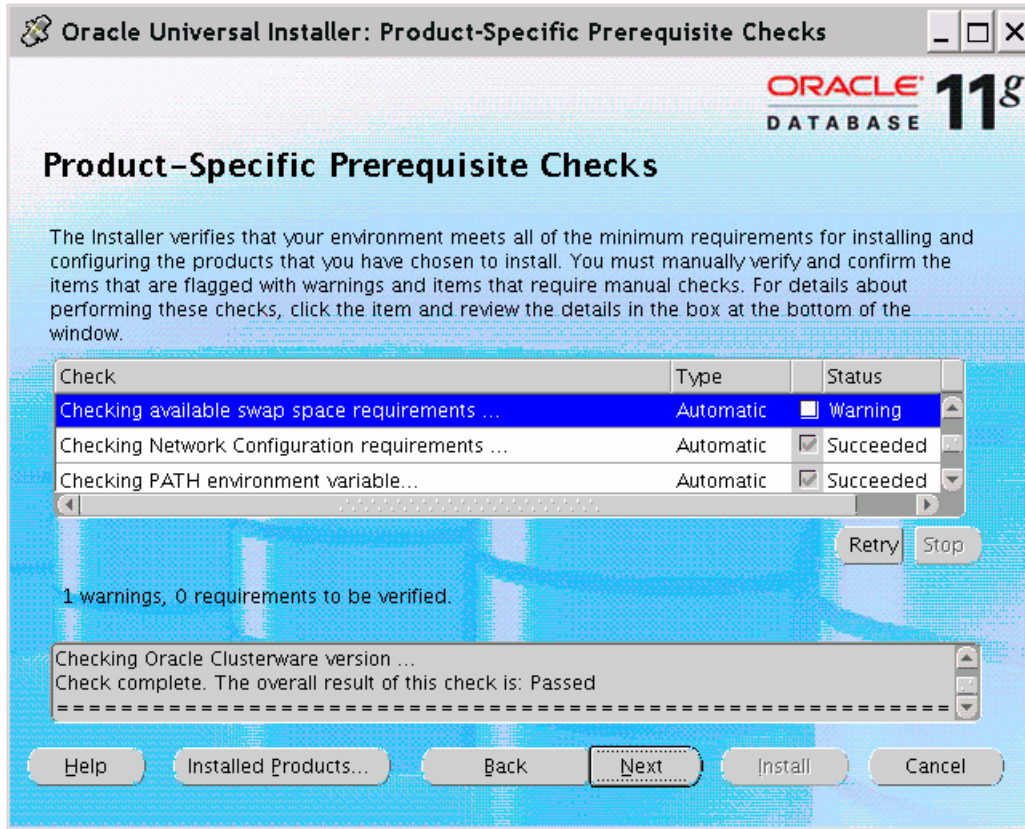
STEP 4 : SPECIFY ORACLE BASE AND ORACLE HOME AND CLICK *NEXT* TO CONTINUE



STEP 5 : SPECIFY CLUSTER NODES. SELECT ALL NODES ON WHICH YOU WANT TO INSTALL THE CLUSTERWARE. BY DEFAULT THE NODE THAT INITIATED OUI IS ALREADY SELECTED AND CLICK **NEXT** TO CONTINUE

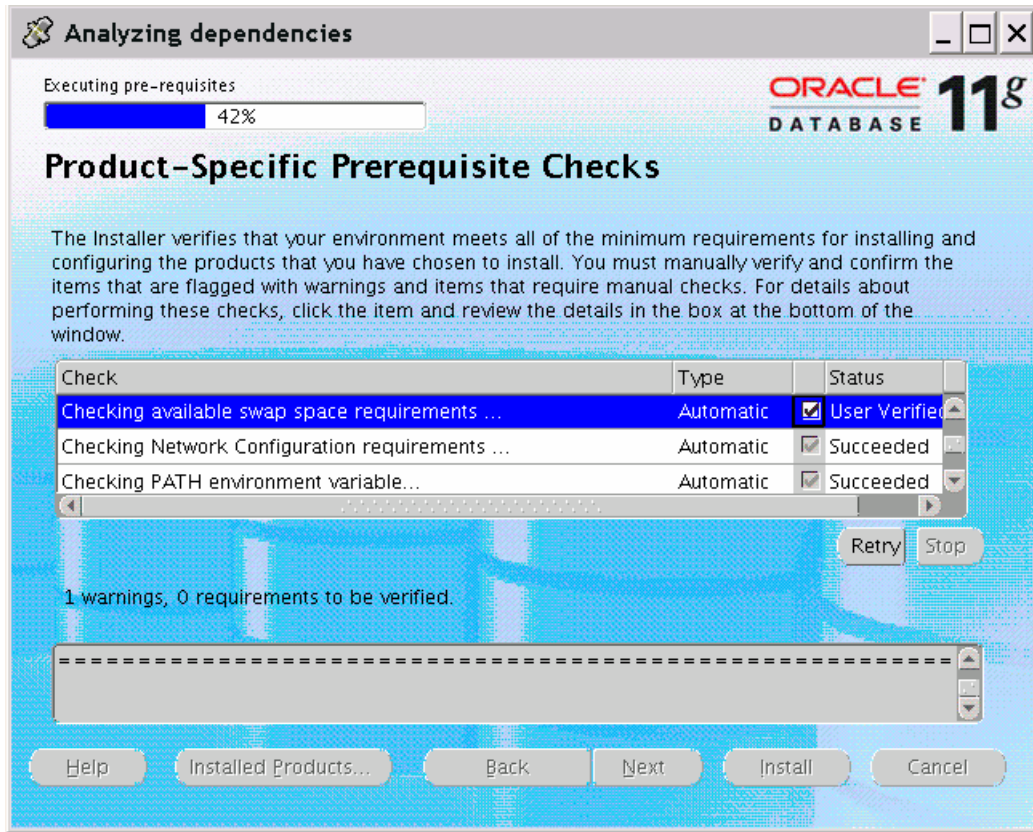


STEP 6 : PRE-REQUISITE CHECKS VALIDATION : MAKE SURE ALL STATUS ARE SUCCEEDED OR ELSE RESOLVE THE ERROR AND DO THE RETRY UNTIL ALL ERRORS ARE RESOLVED

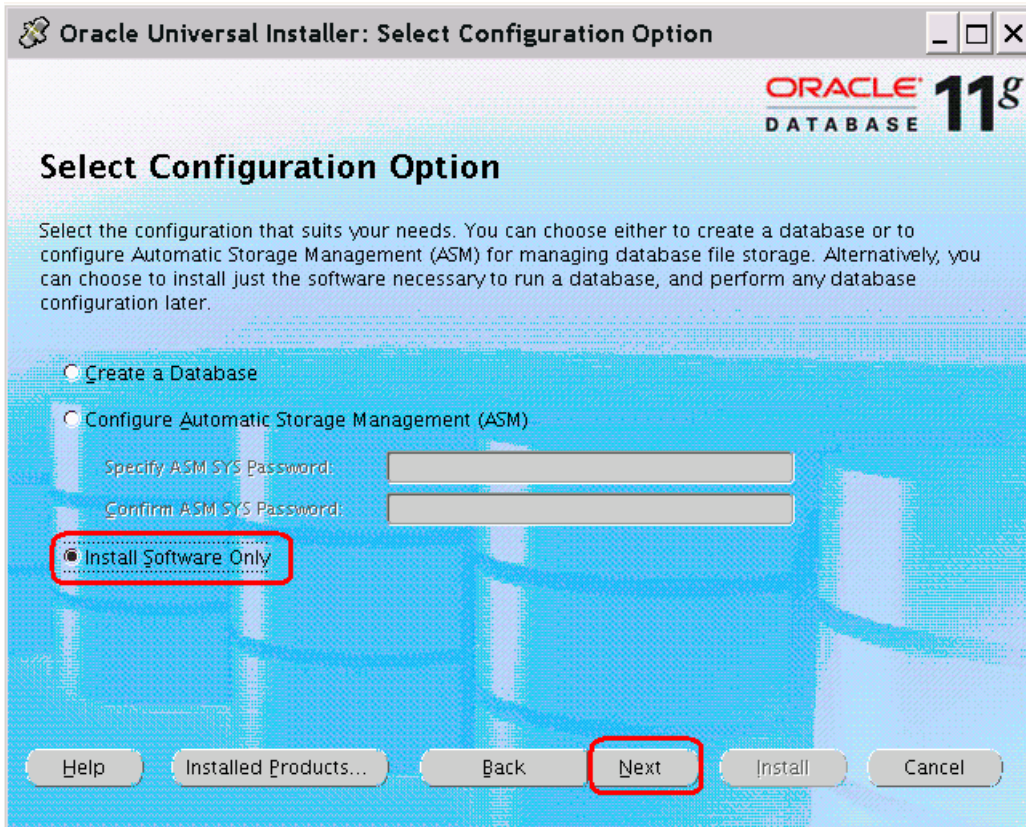


Added the Required Additional SWAP space

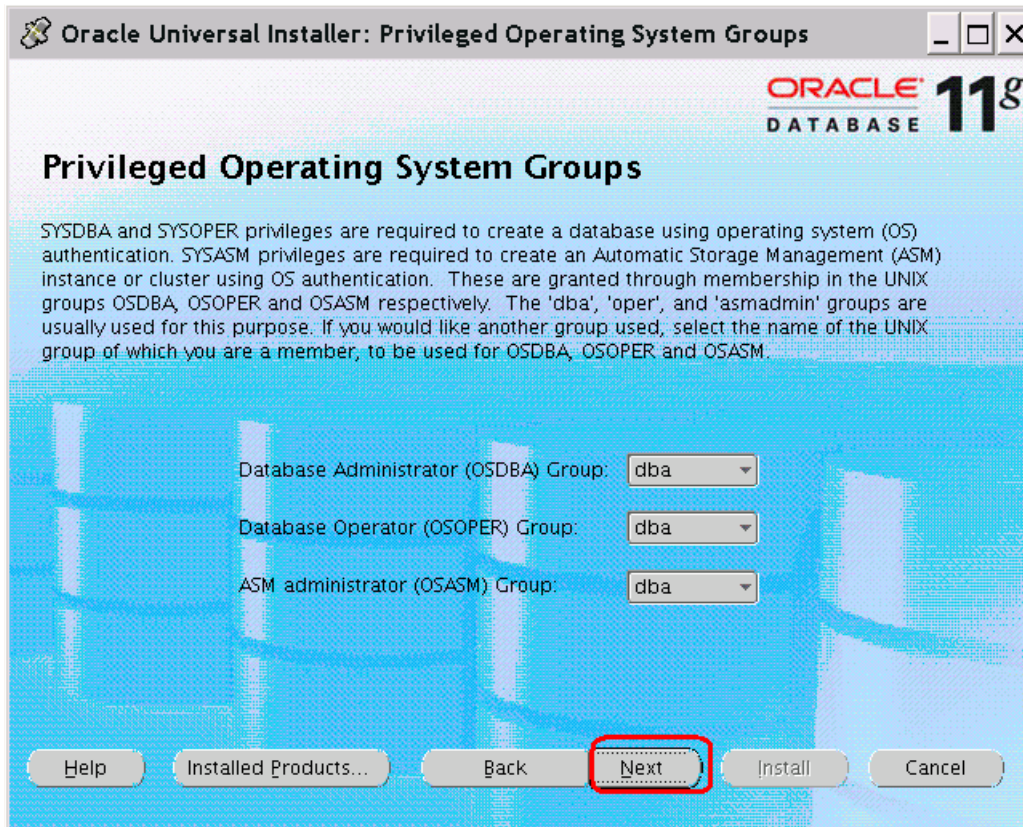
*CLICK **RETRY** TO CONTINUE*



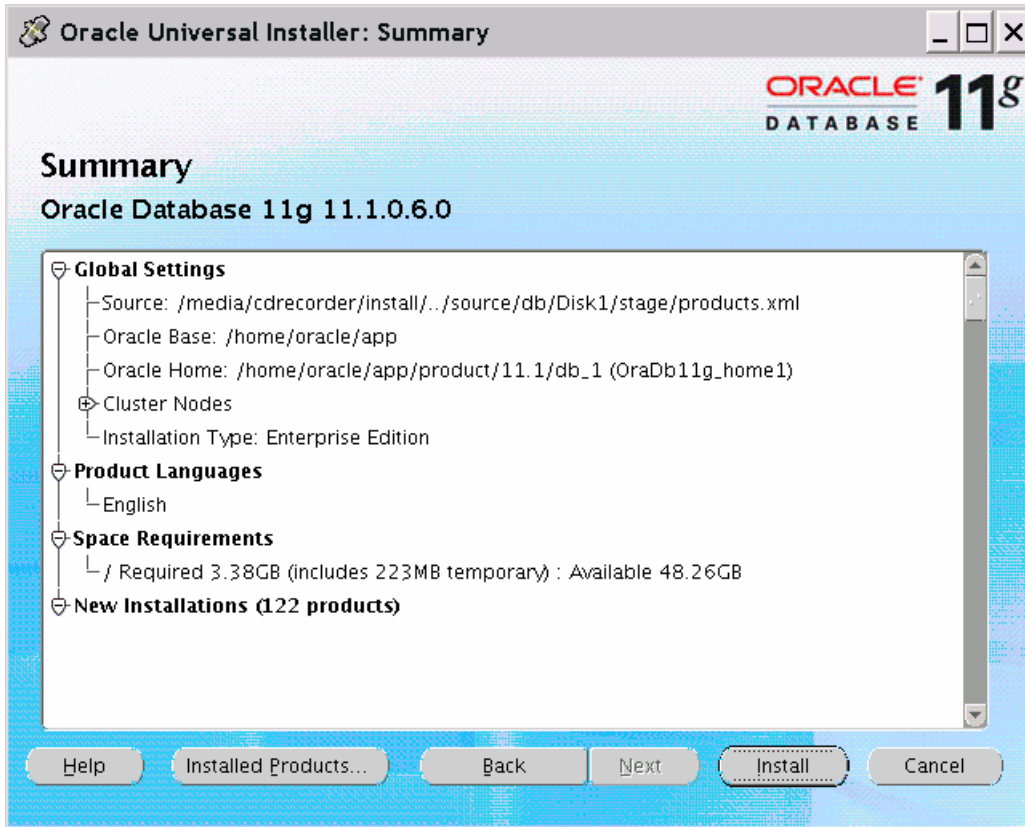
STEP 7: DON'T CREATE THE DATABASE. SELECT INSTALL DATABASE SOFTWARE ONLY

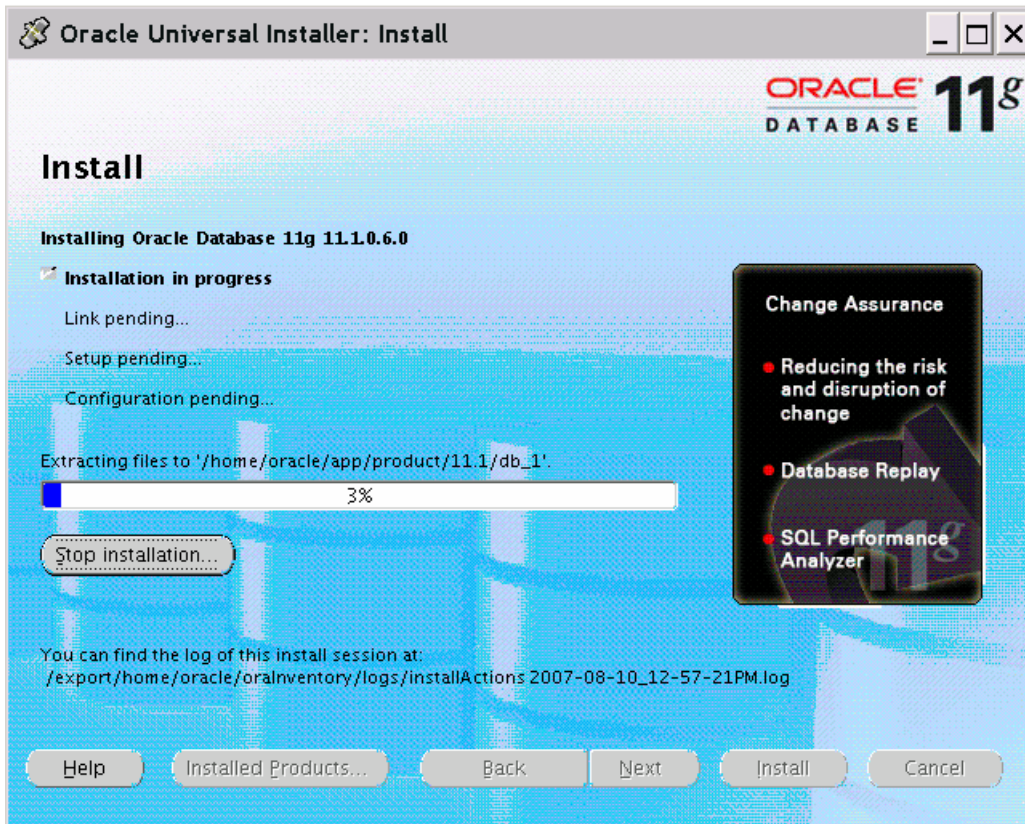


STEP 8 : PRIVILEGED OS GROUPS. SELECT APPROPRIATE DATABASE GROUP AND CLICK **NEXT** TO CONTINUE

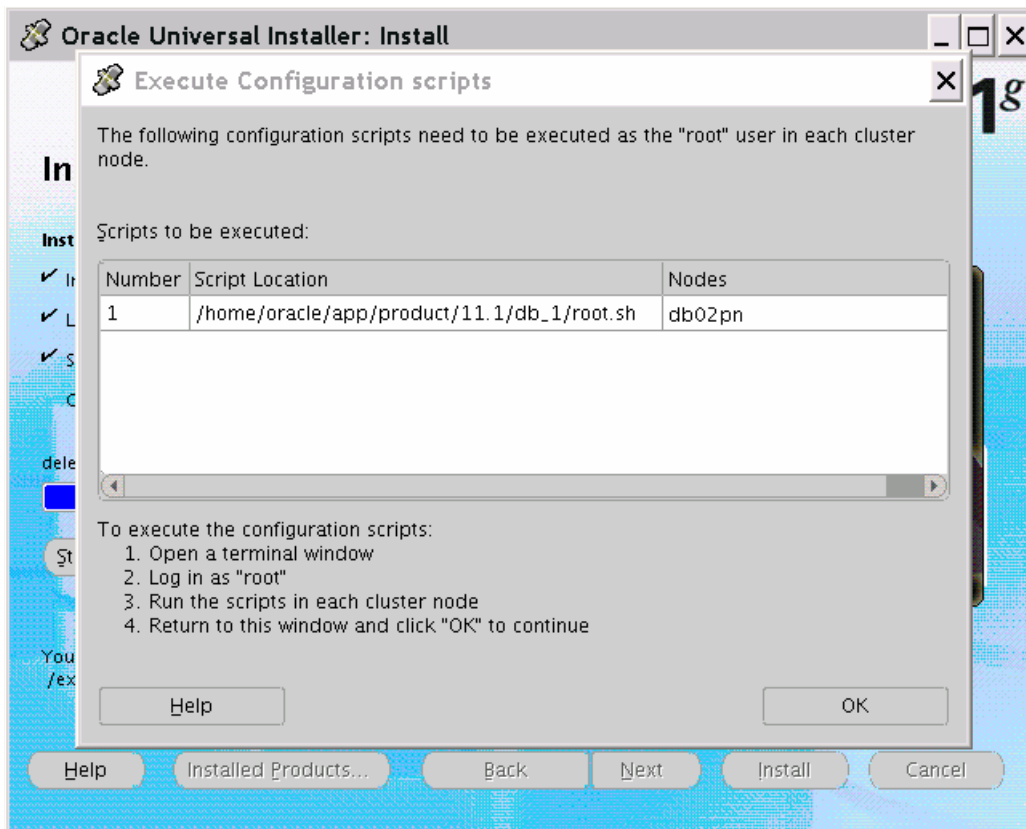


*STEP 8 : SUMMARY SCREEN CLICK **INSTALL** TO CONTINUE*





STEP 9: EXECUTE CONFIGURATION SCRIPTS : RUN ROOT.SH ON ALL NODES



ROOT.SH OUTPUT ON ONE NODE

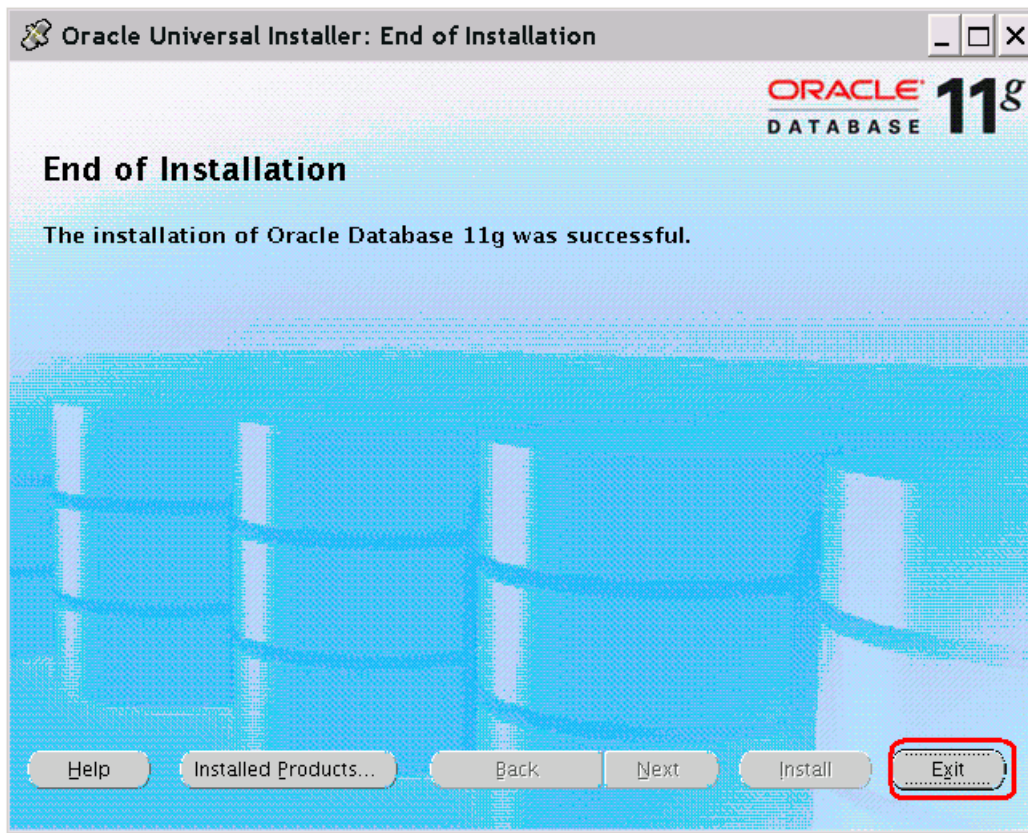
```
[root@db0spn]# /home/oracle/app/product/11.1/db_1/root.sh
Running Oracle 11g root.sh script...

The following environment variables are set as:
ORACLE_OWNER= oracle
ORACLE_HOME= /home/oracle/app/product/11.1/db_1

Enter the full pathname of the local bin directory: [/usr/local/bin]:
The file "dbhome" already exists in /usr/local/bin. Overwrite it? (y/n)
[n]:
The file "oraenv" already exists in /usr/local/bin. Overwrite it? (y/n)
[n]: y
Copying oraenv to /usr/local/bin ...
The file "coraenv" already exists in /usr/local/bin. Overwrite it? (y/n)
[n]: y
Copying coraenv to /usr/local/bin ...

Creating /etc/oratab file...
Entries will be added to the /etc/oratab file as needed by
Database Configuration Assistant when a database is created
Finished running generic part of root.sh script.
Now product-specific root actions will be performed.
Finished product-specific root actions.
```

*STEP 10 : END OF INSTALLATION. CLICK **NEXT** TO CONTINUE*



STEP 11: **CLICK YES TO EXIT THE INSTALLATION**

