

6.1 Supported Oracle Solaris 11 Releases for x86-64 (64-Bit)

Use the following information to check supported Oracle Solaris 11 releases:

Table 3 x86-64 (64-Bit) Supported Oracle Solaris 11 Operating System Requirements

Item	Requirements
SSH Requirement	Ensure that OpenSSH is installed on your servers. OpenSSH is the required SSH software.
Oracle Solaris 11 operating system	Oracle Solaris 11 SRU 7.5 or later SRUs and updates
Oracle Solaris 11 packages	The following packages must be installed: <ul style="list-style-type: none">• SUNWdtrc• pkg://solaris/developer/ assembler• pkg://solaris/developer/build/make• pkg://solaris/system/xopen/xcu4 (if not already installed as part of standard Oracle Solaris 11 installation)• pkg://solaris/x11/diagnostic/x11-info-clients

ON THE ZONE:

```
root@create:~# pkg install SUNWdtrc
No updates necessary for this image.
root@create:~# pkg install pkg://solaris/developer/assembler
Packages to install: 1
Create boot environment: No
Create backup boot environment: No
```

```
DOWNLOAD          PKGS    FILES  XFER (MB)  SPEED
Completed          1/1     6/6    0.1/0.1  46.3k/s
```

```
PHASE              ITEMS
Installing new actions 13/13
Updating package state database Done
Updating image state Done
Creating fast lookup database Done
```

```
root@create:~# pkg install pkg://solaris/developer/build/make
Packages to install: 3
Create boot environment: No
Create backup boot environment: No
```

```
DOWNLOAD          PKGS    FILES  XFER (MB)  SPEED
Completed          3/3    56/56   0.8/0.8  186k/s
```

```
PHASE              ITEMS
Installing new actions 88/88
Updating package state database Done
Updating image state Done
Creating fast lookup database Done
```

```
root@create:~# pkg install pkg://solaris/system/xopen/xcu4
No updates necessary for this image.
```

```
root@create:~# pkg install pkg://solaris/x11/diagnostic/x11-info-clients
Packages to install: 41
Create boot environment: No
Create backup boot environment: No
Services to change: 3
```

```
DOWNLOAD          PKGS    FILES  XFER (MB)  SPEED
Completed          41/41   3167/3167  16.9/16.9  615k/s
```

```
PHASE              ITEMS
Installing new actions  4404/4404
Updating package state database    Done
Updating image state               Done
Creating fast lookup database      Done
```

root@create




```
# /usr/sbin/groupadd oinstall
```

```
# /usr/sbin/groupadd dba
```

```
# /usr/sbin/useradd -d /export/home/oracle -m -s /bin/bash -g oinstall -G dba oracle
```

```
cd /var/tmp/
```

```
unzip both files downloaded from oracle:
```

 solaris.x64_12cR1_database_1of2.zip	1,302 MiB
 solaris.x64_12cR1_database_2of2.zip	1,083 MiB
 Solaris10_1_12_104.zip	2,062 MiB

```
cd database
```

```
su - oracle
```

```
./runInstaller
```

Configure Security Updates



- Configure Security Updates**
- Software Updates
- Installation Option
- Grid Installation Options
- Install Type
- Typical Installation
- Prerequisite Checks
- Summary
- Install Product
- Finish

Provide your email address to be informed of security issues, install the product and initiate configuration manager. [View details.](#)

Email:
Easier for you if you use your My Oracle Support email address/username.

I wish to receive security updates via My Oracle Support.

My Oracle Support Password:



Select Installation Option

- Configure Security Updates
- Software Updates
- Installation Option**
- Grid Installation Options
 - Install Type
 - Typical Installation
 - Prerequisite Checks
 - Summary
 - Install Product
 - Finish

Select any of the following install options.

- Create and configure a database
- Install database software only
- Upgrade an existing database

Help

< Back Next > Install Cancel

System Class

- Configure Security Updates
- Software Updates
- Installation Option
- System Class**
- Typical Installation
 - Prerequisite Checks
 - Summary
 - Install Product
 - Finish

Desktop class

Choose this option if you are installing on a laptop or desktop class system. This option includes a starter database and allows minimal configuration.

Server class

Choose this option if you are installing on a server class system, which Oracle defines as a system used in a production data center. This option allows for more advanced configuration options.





Grid Installation Options

- [Configure Security Updates](#)
- [Software Updates](#)
- [Installation Option](#)
- [System Class](#)
- [Grid Installation Options](#)**
- [Install Type](#)
- [Typical Installation](#)
- [Prerequisite Checks](#)
- [Summary](#)
- [Install Product](#)
- [Finish](#)

Select the type of database installation you want to perform.

- Single instance database installation
- Oracle Real Application Clusters database installation
- Oracle RAC One Node database installation



Select Install Type

- [Configure Security Updates](#)
- [Software Updates](#)
- [Installation Option](#)
- [System Class](#)
- [Grid Installation Options](#)
- [Install Type](#)**
- [Typical Installation](#)
- [Prerequisite Checks](#)
- [Summary](#)
- [Install Product](#)

- Typical install**
Perform full Oracle Database installation with basic configuration.
- Advanced install**
Allows advanced selections such as different passwords for the SYS, SYSMAN, SYSTEM and DBSNMP accounts, database character set, product languages, automated backups, custom installation, and alternative storage options such as Oracle Automatic Storage Management.

Typical Install Configuration

- [Configure Security Updates](#)
- [Software Updates](#)
- [Installation Option](#)
- [System Class](#)
- [Grid Installation Options](#)
- [Install Type](#)
- [Typical Installation](#)**
- [Prerequisite Checks](#)
- [Summary](#)
- [Install Product](#)
- [Finish](#)

Perform full database installation with basic configuration.

Oracle base:

Software location:

Storage type:

Database file location:

Database edition:

OSDBA group:

Global database name:

Administrative password:

Confirm password:

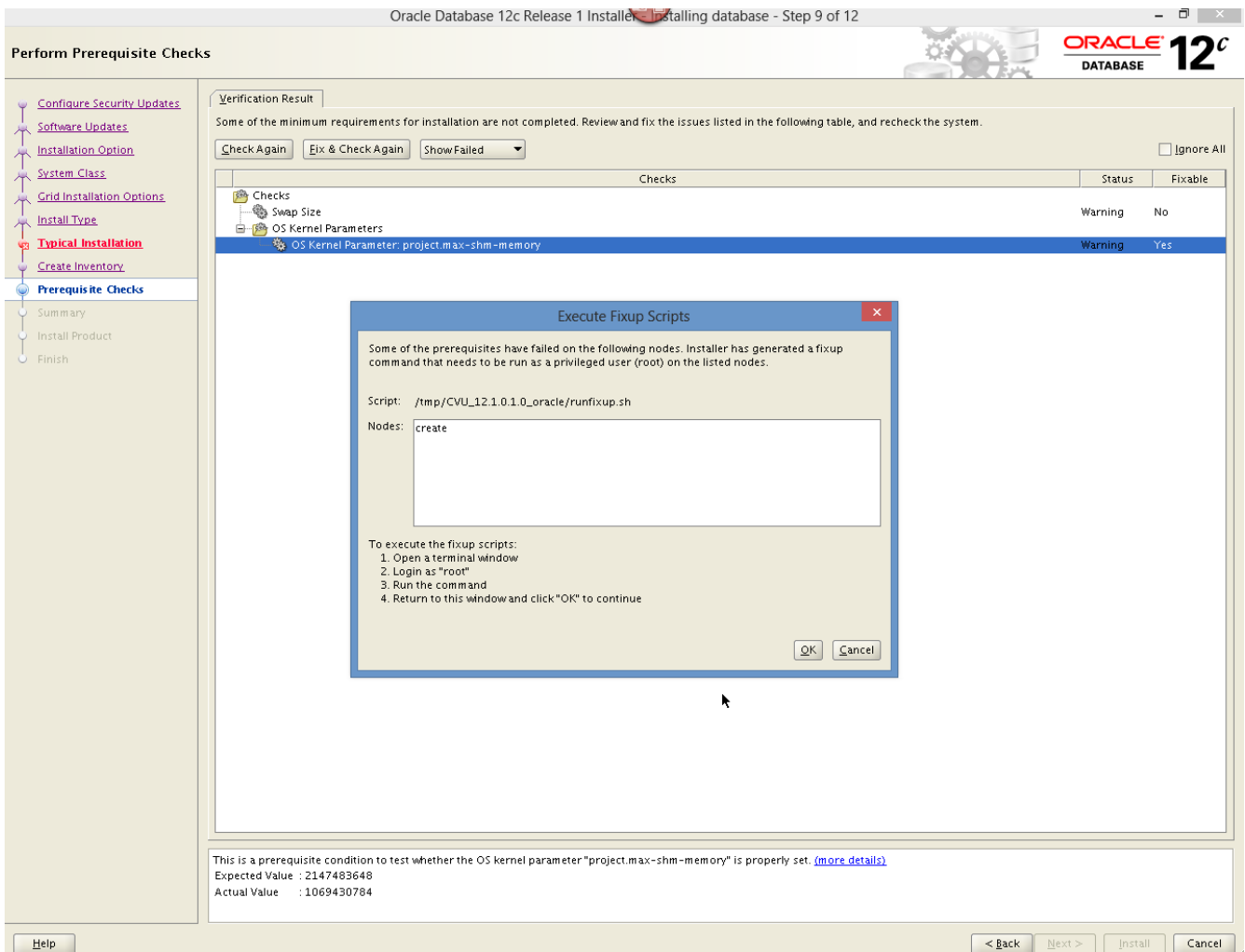
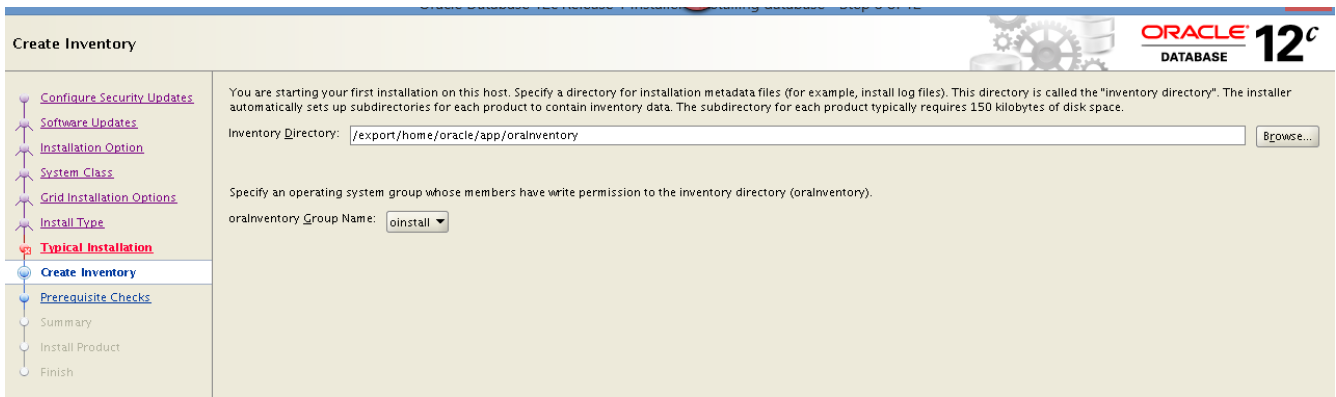
Service name:

Create as Container database

Pluggable database name:

Messages:

⚠ Administrative password:[INS-30011] The ADMIN password entered does not conform to the Oracle recommended standards.




```
root@create:/var/tmp# /tmp/CVU_12.1.0.1.0_oracle/runfixup.sh
All Fix-up operations were completed successfully.
root@create:/var/tmp#
```

Ignore All

	Status	Fixable
	Ignored	No
	Ignored	No



Oracle Database 12c Release 1 Installer

 [INS-13016] You have chosen to ignore some of the prerequisites for this installation. This may impact product configuration.

Are you sure you want to continue?



Summary

- Configure Security Updates
- Software Updates
- Installation Option
- System Class
- Grid Installation Options
- Install Type
- Typical Installation**
- Create Inventory
- Prerequisite Checks
- Summary**
- Install Product
- Finish

Oracle Database 12c Release 1 Installer

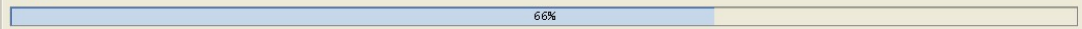
- Global settings**
 - Disk space: required 5.9 GB available 11.01 GB [\[Edit\]](#)
 - Source location: /var/tmp/database/install/./stage/products.xml
 - Install method: Typical installation [\[Edit\]](#)
 - Database edition: Enterprise Edition (Create and configure a database) [\[Edit\]](#)
 - Oracle base: /export/home/oracle/app/oracle [\[Edit\]](#)
 - Software location: /export/home/oracle/app/oracle/product/12.1.0/dbhome_1 [\[Edit\]](#)
 - Privileged Operating System groups: dba (OSDBA), dba (OSOPER), dba (OSBACKUPDBA), dba (OSDGDBA), dba (OSKMDBA) [\[Edit\]](#)
- Inventory information**
 - Inventory location: /export/home/oracle/app/orainventory [\[Edit\]](#)
 - orainventory group: oinstall [\[Edit\]](#)
- Database information**
 - Configuration: General Purpose / Transaction Processing
 - Global database name: orcl [\[Edit\]](#)
 - Oracle system identifier (SID): orcl [\[Edit\]](#)
 - Allocated memory: 1637 MB
 - Automatic memory management option: TRUE
 - Database character set: West European (WE8MSWIN1252)
 - Management method: Database express
 - Database storage mechanism: File system [\[Edit\]](#)
 - Database file location: /export/home/oracle/oradata [\[Edit\]](#)
 - Recovery: Disabled



Install Product

- Configure Security Updates
- Software Updates
- Installation Option
- System Class
- Grid Installation Options
- Install Type
- Typical Installation
- Create Inventory
- Prerequisite Checks
- Summary
- Install Product**
- Finish

Progress



Saving inventory

Status

Oracle Database installation	In Progress
• Prepare	Succeeded
• Copy files	Succeeded
• Link binaries	Succeeded
• Setup	In Progress
Execute Root Scripts	Pending
Oracle Database configuration	Pending

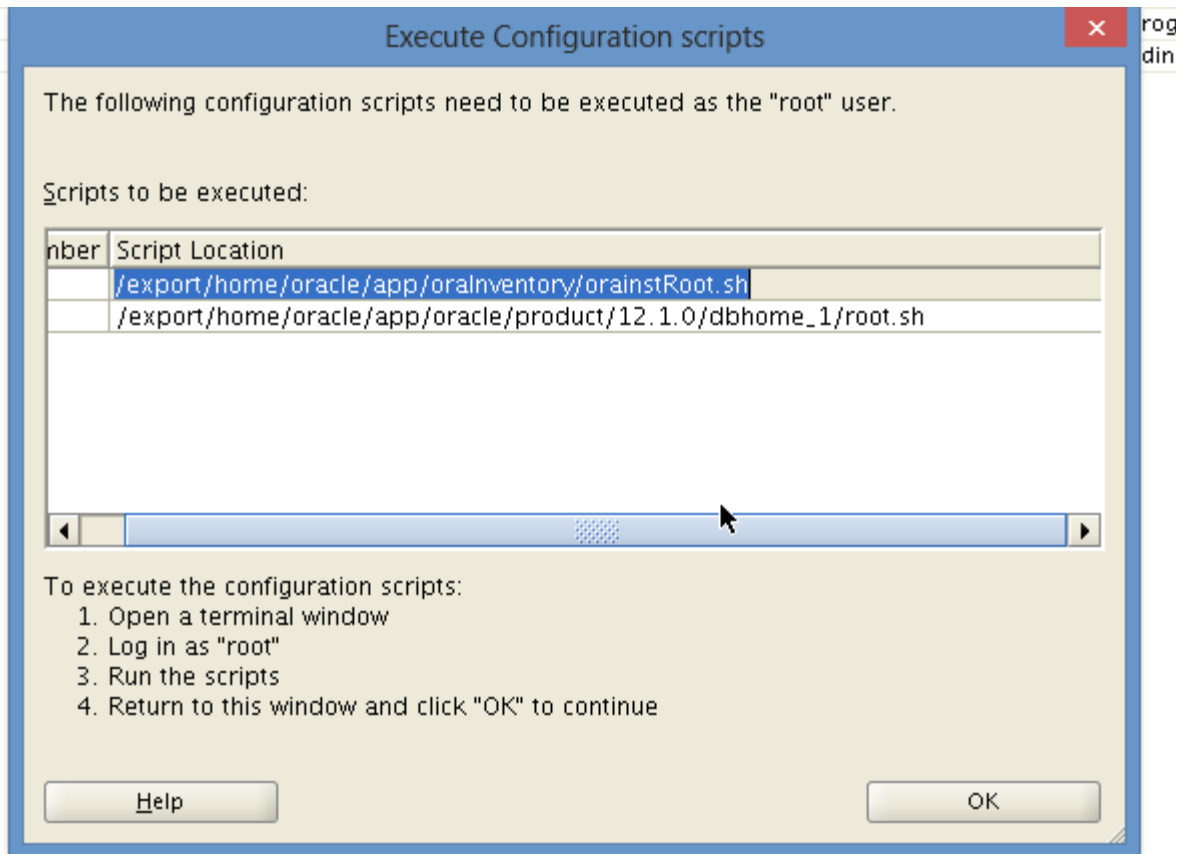
[Details](#) [Retry](#) [Skip](#)



[Help](#)

[< Back](#) [Next >](#) [Install](#) [Cancel](#)





```
root@create:/var/tmp# /export/home/oracle/app/oraInventory/orainstRoot.sh
```

Changing permissions of /export/home/oracle/app/oraInventory.

Adding read,write permissions for group.

Removing read,write,execute permissions for world.

Changing groupname of /export/home/oracle/app/oraInventory to oinstall.

The execution of the script is complete.

```
root@create:/var/tmp# /export/home/oracle/app/oracle/product/12.1.0/dbhome_1/root.sh
```

Performing root user operation for Oracle 12c

The following environment variables are set as:

ORACLE_OWNER= oracle

ORACLE_HOME= /export/home/oracle/app/oracle/product/12.1.0/dbhome_1

Enter the full pathname of the local bin directory: [/usr/local/bin]:

Creating /usr/local/bin directory...

Copying dbhome to /usr/local/bin ...

Copying oraenv to /usr/local/bin ...

Copying coraenv to /usr/local/bin ...

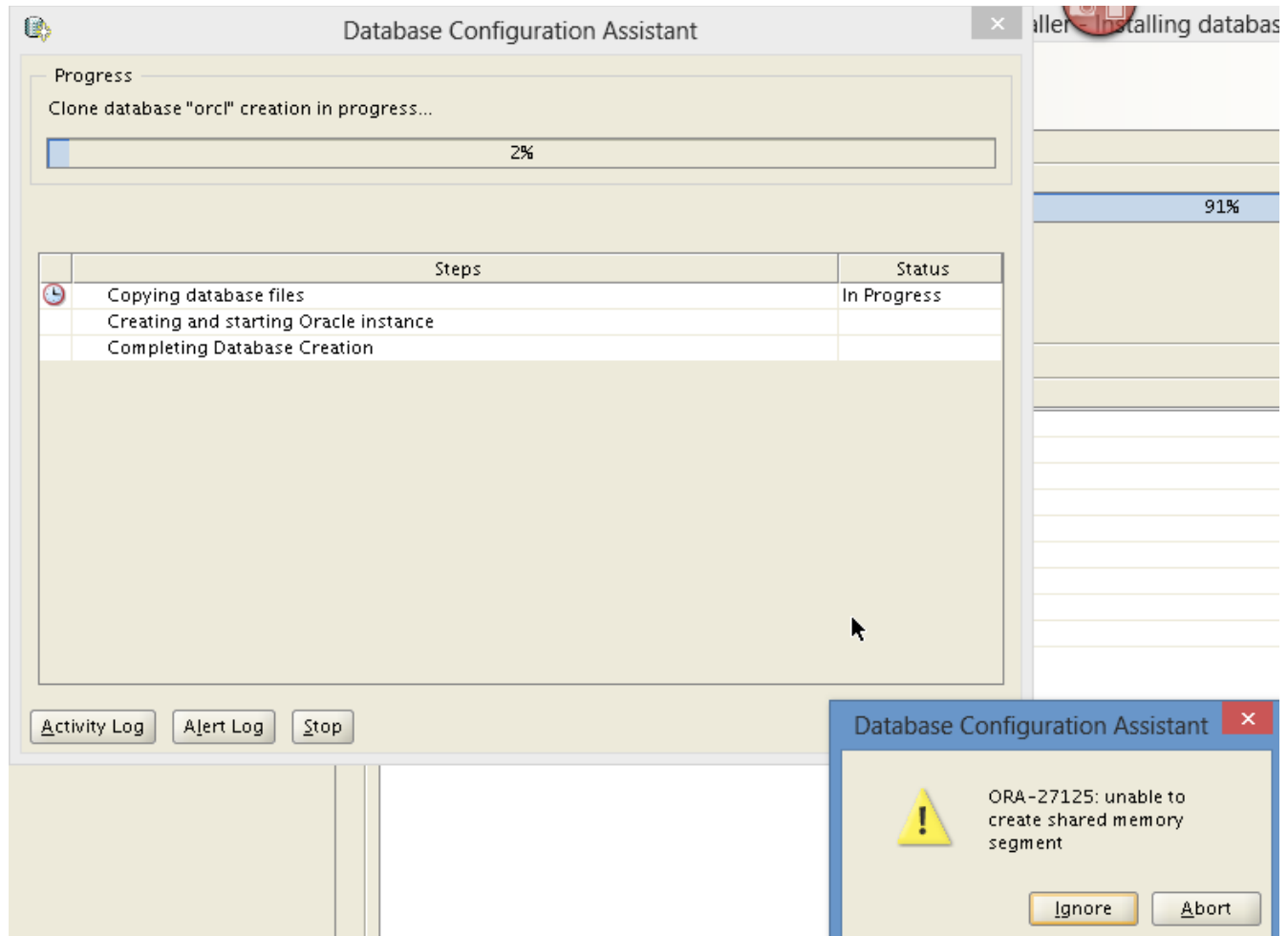
Creating /var/opt/oracle/oratab file...

Entries will be added to the /var/opt/oracle/oratab file as needed by Database Configuration Assistant when a database is created

Finished running generic part of root script.

Now product-specific root actions will be performed.

[root@create:/var/tmp#](#)



GO to a cluster node:

```
root@sol11-2:/var/tmp# cat /etc/zones/create.xml
```

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<!DOCTYPE zone PUBLIC "-//Sun Microsystems Inc//DTD Zones//EN"
```

```
"file:///usr/share/lib/xml/dtd/zonecfg.dtd.1">
```

```
<!--
```

```
DO NOT EDIT THIS FILE. Use zonecfg(1M) instead.
```

```
-->
```

```
<zone name="create" zonpath="/spool1/mnt1/testzone1" autoboot="false" brand="solaris" ip-  
type="shared">
```

```
<network physical="net0" address="10.0.0.80" configure-allowed-address="true"/>
```

```
<rctl name="zone.max-shm-memory">
```

```

    <rctl-value priv="privileged" limit="2147483648" action="deny"/>
  </rctl>
</zone>
root@sol11-2:/var/tmp# zonecfg -z create
zonecfg:create> info
zonename: create
zonepath: /spool1/mnt1/testzone1
brand: solaris
autoboot: false
bootargs:
file-mac-profile:
pool:
limitpriv:
scheduling-class:
ip-type: shared
hostid:
fs-allowed:
[max-shm-memory: 2G]
net:
    address: 10.0.0.80
    allowed-address not specified
    configure-allowed-address: true
    physical: net0
    defrouter not specified
rctl:
    name: zone.max-shm-memory
    value: (priv=privileged,limit=2147483648,action=deny)
zonecfg:create> set max-shm-memory=4096m
zonecfg:create> verify
zonecfg:create> commit
zonecfg:create> exit
root@sol11-2:/var/tmp#

```

copy this file /etc/zones/create.xml to the other node

```

root@sol11-2:/var/tmp# scp /etc/zones/create.xml sol11-1:/etc/zones
Password:
create.xml      100% |
*****
*****| 521    00:00
root@sol11-2:/var/tmp#

```

offline and online the testgrp1 service group for changes to take effect:

```

root@sol11-2:/var/tmp# hagr -offline testgrp1 -sys sol11-1
root@sol11-2:/var/tmp# hastatus -sum

```

```

-- SYSTEM STATE
-- System      State      Frozen

```

```
A sol11-1      RUNNING      0
A sol11-2      RUNNING      0
```

-- GROUP STATE

-- Group	System	Probed	AutoDisabled	State
B ClusterService	sol11-1	Y	N	OFFLINE
B ClusterService	sol11-2	Y	N	ONLINE
B testgrp	sol11-1	Y	N	OFFLINE
B testgrp	sol11-2	Y	N	OFFLINE
B testgrp1	sol11-1	Y	N	OFFLINE
B testgrp1	sol11-2	Y	N	OFFLINE

-- RESOURCES NOT PROBED

-- Group	Type	Resource	System
E testgrp	Zone	vcszone	sol11-1
E testgrp	Zpool	oraclepool	sol11-1
E testgrp	Zpool	vcspool	sol11-1

[root@sol11-2:/var/tmp#](#)

Now online it

```
root@sol11-2:/var/tmp# hagr -online testgrp1 -sys sol11-1
root@sol11-2:/var/tmp#
```

Login to the zone

```
oracle@create:~$ find . -name dbca -print
./app/oracle/product/12.1.0/dbhome_1/assistants/dbca
./app/oracle/product/12.1.0/dbhome_1/inventory/Templates/assistants/dbca
./app/oracle/product/12.1.0/dbhome_1/bin/dbca
./app/oracle/checkpoints/dbca
./app/oracle/cfgtoollogs/dbca
oracle@create:~\$
```

```
oracle@create:~$ ./app/oracle/product/12.1.0/dbhome_1/bin/dbca &
[1] 25320
oracle@create:~\$
```

ORACLE®
DATABASE

12^c

ORACLE®

Database Operation



Database Operation

Creation Mode

Pre Requisite Checks

Summary

Progress Page

Select the operation that you want to perform:

- Create Database
- Configure Database Options
- Delete Database
- Manage Templates
- Manage Pluggable Databases

Empty rectangular area for additional information or instructions.

Help

< Back

Next >

Finish

Cancel

Database Configuration Assistant - Create Database - Step 2 of 5

ORACLE DATABASE 12^C

Creation Mode

Database Operation

Creation Mode

Pre Requisite Checks

Summary

Progress Page

Create a database with default configuration

Global Database Name: testdb

Storage Type: File System

Database Files Location: {ORACLE_BASE}/oradata

Fast Recovery Area: {ORACLE_BASE}/fast_recovery_area

Database Character Set: WE8MSWIN1252 - MS Windows Code Page 1252 8-bit Wes...

Administrative Password:

Confirm Password:

Create As Container Database


Pluggable Database Name:

Advanced Mode

Messages:

Administrative Password: The password entered does not conform to the Oracle recommended standards. A password should have minimum of 8 characters in length. In addition, the password must contain at least one upper case character, one lower case character and one digit.

Database Configuration Assistant

 The password entered does not conform to the Oracle recommended standards. A password should have minimum of 8 characters in length. In addition, the password must contain at least one upper case character, one lower case character and one digit.

Are you sure you want to continue?

Summary

- [Database Operation](#)
- [Creation Mode](#)
- [Pre Requisite Checks](#)
- [Summary](#)**
- [Progress Page](#)

Database Configuration Assistant: Summary

Create Database - Summary

Database Configuration Summary

Global Database Name: testdb
Database Configuration Type: Single Instance
SID: testdb
Create As Container Database: No
Storage Type: File System
Memory Configuration Type: Automatic Memory Management
Template Name: General Purpose or Transaction Processing

Database Configuration Details

Database Components

Component	Selected
Oracle JVM	true
Oracle Text	true
Oracle Multimedia	true
Oracle OLAP	true
Oracle Spatial	true
Oracle Label Security	true
Oracle Security	true

Help

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Next >

Finish

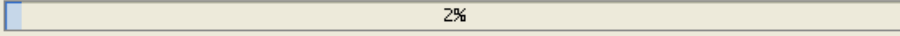
Cancel

Progress Page



- Database Operation
- Creation Mode
- Pre Requisite Checks
- Summary
- Progress Page**

Progress
Clone database "testdb" creation in progress...



	Steps	Status
	Copying database files	In Progress
	Creating and starting Oracle instance	
	Completing Database Creation	

[Activity Log](#) [Alert Log](#)

Empty rectangular box for logs or additional information.

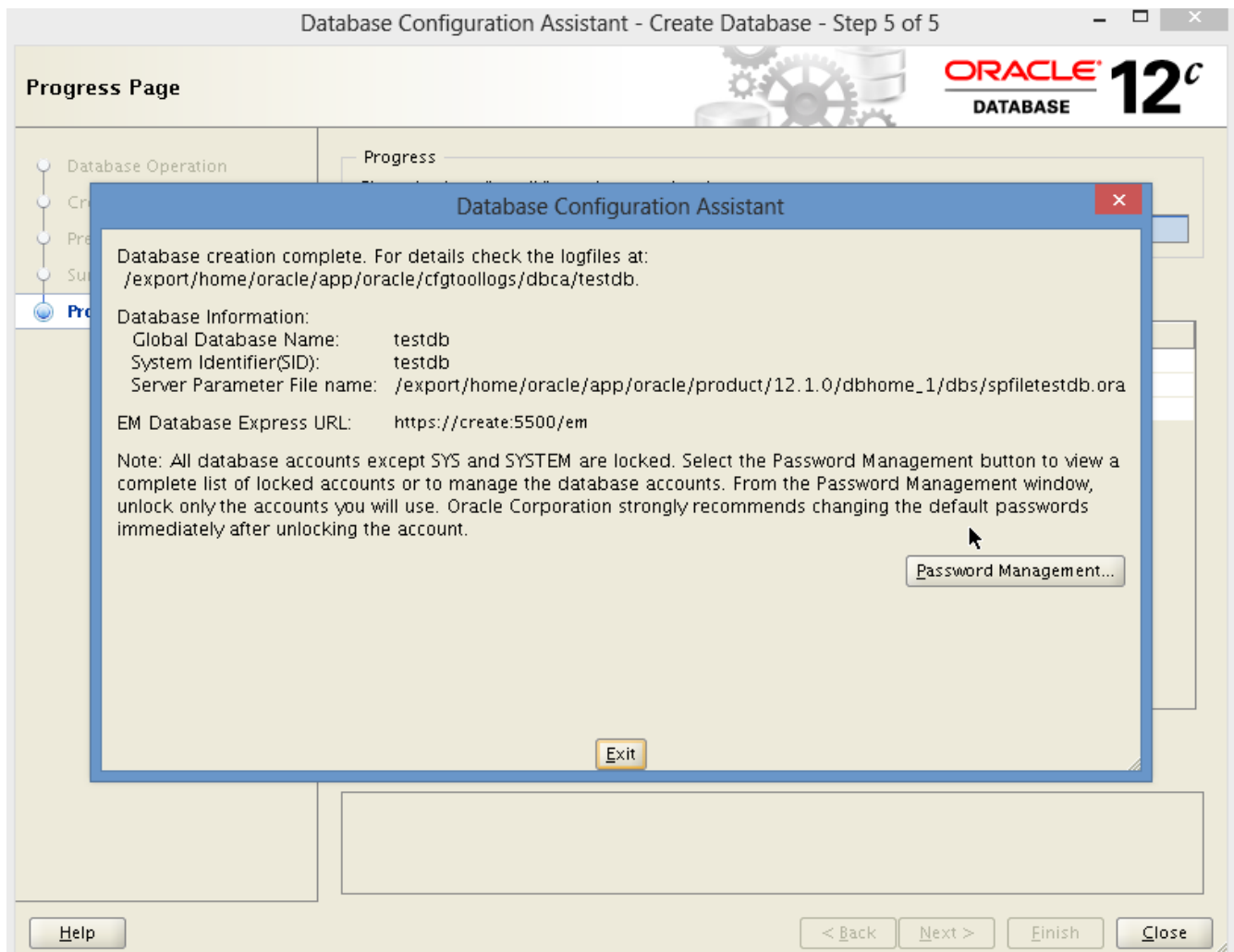
[Help](#)

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[Next >](#)

[Finish](#)

[Close](#)



NOW TO BRING DATABASE UNDER CLUSTER CONTROL

```
root@sol11-2:/var/tmp# hares -add listener_ora Netlsnr testgrp1
VCS NOTICE V-16-1-10242 Resource added. Enabled attribute must be set before agent monitors
root@sol11-2:/var/tmp# hares -modify listener_ora Owner oracle
root@sol11-2:/var/tmp# hares -modify listener_ora Home /app/oracle/product/12.1.0/dbhome_1
root@sol11-2:/var/tmp# hares -modify listener_ora TnsAdmin
/app/oracle/product/12.1.0/dbhome_1/network/admin
root@sol11-2:/var/tmp# hares -modify listener_ora Listener ""
root@sol11-2:/var/tmp#
root@sol11-2:/var/tmp# hares -modify listener_ora Enabled 1

root@sol11-2:/var/tmp# hares -add ora_res Oracle testgrp1
VCS NOTICE V-16-1-10242 Resource added. Enabled attribute must be set before agent monitors
root@sol11-2:/var/tmp# hares -modify ora_res Sid testdb
root@sol11-2:/var/tmp# hares -modify ora_res Owner oracle
root@sol11-2:/var/tmp# hares -modify ora_res Home /app/oracle/product/12.1.0/dbhome_1
root@sol11-2:/var/tmp# hares -link listener_ora ora_res
root@sol11-2:/var/tmp# hares -link ora_res vcszone1
```

```
root@sol11-2:/var/tmp# hares -modify ora_res Enabled 1
root@sol11-2:/var/tmp# haconf -dump
root@sol11-2:/var/tmp#
```

```
root@sol11-2:/var/tmp# hastatus -sum
```

-- SYSTEM STATE

-- System	State	Frozen
A sol11-1	RUNNING	0
A sol11-2	RUNNING	0

-- GROUP STATE

-- Group	System	Probed	AutoDisabled	State
B ClusterService	sol11-1	Y	N	OFFLINE
B ClusterService	sol11-2	Y	N	ONLINE
B testgrp	sol11-1	Y	N	OFFLINE
B testgrp	sol11-2	Y	N	OFFLINE
B testgrp1	sol11-1	Y	N	PARTIAL
B testgrp1	sol11-2	Y	N	OFFLINE

-- RESOURCES NOT PROBED

-- Group	Type	Resource	System
E testgrp	Zone	vcszone	sol11-1
E testgrp	Zpool	oraclepool	sol11-1
E testgrp	Zpool	vcspool	sol11-1

```
root@sol11-2:/var/tmp# hagr -offline testgrp1 -sys sol11-1
root@sol11-2:/var/tmp#
```

WE see an error:

```
root@sol11-2:/var/tmp# tail -f /var/VRTSvcs/log/engine_A.log
VCS NOTICE V-16-1-52563 VCS Login:Enter Password:VCS WARNING V-16-1-11135 Cannot get
password -- error 0x6
Can't exec "/app/oracle/product/12.1.0/dbhome_1/bin/sqlplus": No such file or directory at
/opt/VRTSagents/ha/bin/Oracle/oraclelib.pm line 1242.
Use of uninitialized value $out in split at /opt/VRTSagents/ha/bin/Oracle/oraclelib.pm line 1243.
VCS NOTICE V-16-1-52563 VCS Login:Enter Password:VCS WARNING V-16-1-11135 Cannot get
password -- error 0x6
VCS NOTICE V-16-1-52563 VCS Login:Enter Password:VCS WARNING V-16-1-11135 Cannot get
password -- error 0x6
```

=====
2013/11/24 08:08:54 VCS INFO V-16-2-13068 (sol11-1) Resource(ora_res) - clean completed

successfully.

2013/11/24 08:08:55 VCS INFO V-16-1-10305 Resource ora_res (Owner: Unspecified, Group: testgrp1) is offline on sol11-1 (VCS initiated)

2013/11/24 08:08:55 VCS NOTICE V-16-1-10300 Initiating Offline of Resource vcszone1 (Owner: Unspecified, Group: testgrp1) on System sol11-1

2013/11/24 08:09:03 VCS INFO V-16-2-13717 (sol11-1) Output of the completed operation (imf_getnotification)

=====
Got notification for group: vcszone1
=====

2013/11/24 08:09:08 VCS INFO V-16-1-10305 Resource vcszone1 (Owner: Unspecified, Group: testgrp1) is offline on sol11-1 (VCS initiated)

2013/11/24 08:09:08 VCS NOTICE V-16-1-10300 Initiating Offline of Resource vcspool1 (Owner: Unspecified, Group: testgrp1) on System sol11-1

2013/11/24 08:09:10 VCS INFO V-16-1-10305 Resource vcspool1 (Owner: Unspecified, Group: testgrp1) is offline on sol11-1 (VCS initiated)

2013/11/24 08:09:10 VCS NOTICE V-16-1-10446 Group testgrp1 is offline on system sol11-1

The error is:

Can't exec "/app/oracle/product/12.1.0/dbhome_1/bin/sqlplus": No such file or directory at /opt/VRTSagents/ha/bin/Oracle/oraclelib.pm line 1242.

To investigate this we will online ONLY the zone resource and see where sqlplus is located

```
root@sol11-2:/var/tmp# hares -online vcszone1 -sys sol11-1  
root@sol11-2:/var/tmp#
```

Login via putty to the zone:

```
login as: root  
Using keyboard-interactive authentication.  
Password:  
Last login: Sun Nov 24 08:12:38 2013 from 10.0.0.8  
Oracle Corporation SunOS 5.11 11.1 September 2012  
root@create:~# su - oracle  
Oracle Corporation SunOS 5.11 11.1 September 2012  
oracle@create:~$ find . -name sqlplus -print  
./app/oracle/product/12.1.0/dbhome_1/sqlplus  
./app/oracle/product/12.1.0/dbhome_1/bin/sqlplus  
oracle@create:~$ s
```

So sqlplus is located at:

```
oracle@create:~$ pwd
/export/home/oracle
oracle@create:~$
```

```
/export/home/oracle//app/oracle/product/12.1.0/dbhome_1
```

Let us modify Home in our VCS config to include this

On any node, do this:

```
root@sol11-2:/var/tmp# hares -modify ora_res Home
/export/home/oracle/app/oracle/product/12.1.0/dbhome_1
root@sol11-2:/var/tmp# hares -modify listener_ora TnsAdmin
/export/home/oracle/app/oracle/product/12.1.0/dbhome_1/network/admin
root@sol11-2:/var/tmp# hares -modify listener_ora Home
/export/home/oracle/app/oracle/product/12.1.0/dbhome_1
root@sol11-2:/var/tmp# haconf -dump
root@sol11-2:/var/tmp#
```

now online the Service group “testgrp1”

```
root@sol11-2:/var/tmp# hagr -online testgrp1 -sys sol11-1
root@sol11-2:/var/tmp#
```

tail the log file

```
2013/11/24 08:18:11 VCS INFO V-16-1-50135 User root fired command: hagr -online testgrp1
sol11-1 from localhost
2013/11/24 08:18:11 VCS NOTICE V-16-1-10166 Initiating manual online of group testgrp1 on system
sol11-1
2013/11/24 08:18:11 VCS NOTICE V-16-1-10233 Clearing Restart attribute for group testgrp1 on all
nodes
2013/11/24 08:18:11 VCS NOTICE V-16-1-10301 Initiating Online of Resource ora_res (Owner:
Unspecified, Group: testgrp1) on System sol11-1
2013/11/24 08:18:30 VCS INFO V-16-1-53504 VCS Engine Alive message!!
2013/11/24 08:18:50 VCS INFO V-16-2-13716 (sol11-1) Resource(ora_res): Output of the completed
operation (online)
```

```
=====
VCS NOTICE V-16-1-52563 VCS Login:Enter Password:VCS WARNING V-16-1-11135 Cannot get
password -- error 0x6
=====
```

```
2013/11/24 08:18:52 VCS INFO V-16-1-10298 Resource ora_res (Owner: Unspecified, Group:
testgrp1) is online on sol11-1 (VCS initiated)
2013/11/24 08:18:52 VCS NOTICE V-16-1-10301 Initiating Online of Resource listener_ora (Owner:
Unspecified, Group: testgrp1) on System sol11-1
2013/11/24 08:18:58 VCS INFO V-16-2-13716 (sol11-1) Resource(listener_ora): Output of the
completed operation (online)
```

=====
VCS NOTICE V-16-1-52563 VCS Login:Enter Password:VCS WARNING V-16-1-11135 Cannot get
password -- error 0x6
=====

2013/11/24 08:18:58 VCS INFO V-16-1-10298 Resource listener_ora (Owner: Unspecified, Group:
testgrp1) is online on sol11-1 (VCS initiated)
2013/11/24 08:18:58 VCS NOTICE V-16-1-10447 Group testgrp1 is online on system sol11-1

so, now we have done it!