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## How To Add A Node In Oracle RAC 19c

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Below are the steps for adding a node in oracle 19c RAC.

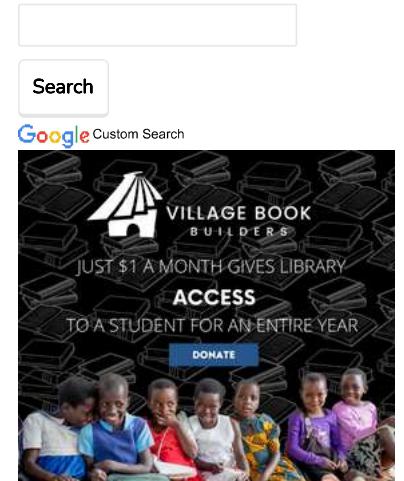
### STEP OVERVIEW:

- Add the new node using gridSetup.sh
- Extend oracle database home to new node using addnode.sh
- Add the database instance to new node using dbca

### DEMO

In this demo, we will add new node dbhost04, to existing node dbhost03( where grid is already running)

existing node( node1)	-> DBHOST03
New node(node2).	->DBHOST04 ( to be added)
GRID_HOME	->/crsapp/app/oracle/product/19c
ORACLE_HOME	-> /oracle/app/oracle/product/19.3.0/dbhome_1



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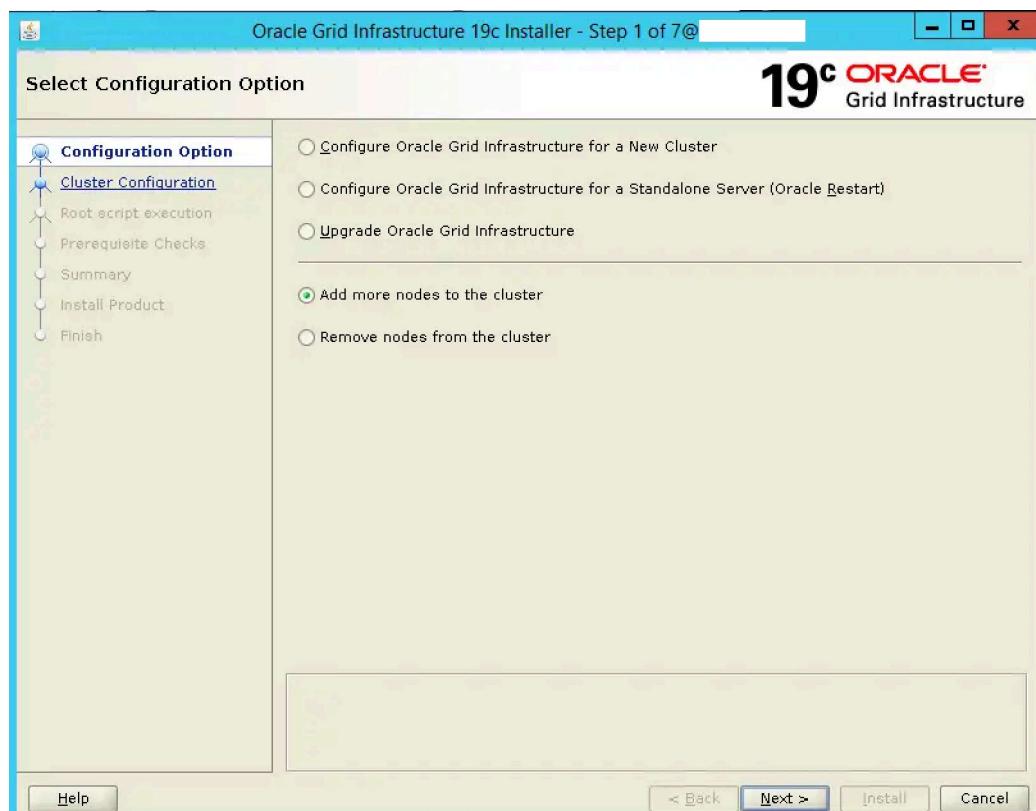
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## 1. Run gridsetup.sh script from existing node ( DBHOST03).

```
dbhost03$ export GRID_HOME=/crsapp/app/oracle/product/19c
dbhost03$ cd $GRID_HOME
dbhost03$./gridSetup.sh
```



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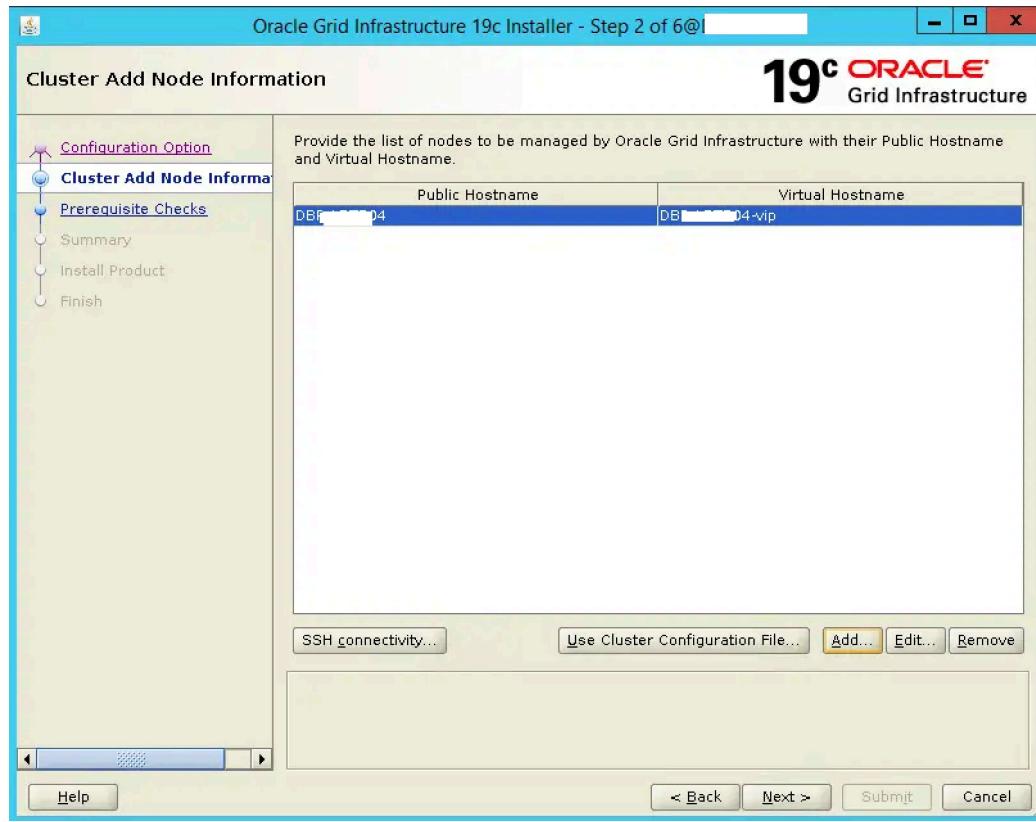
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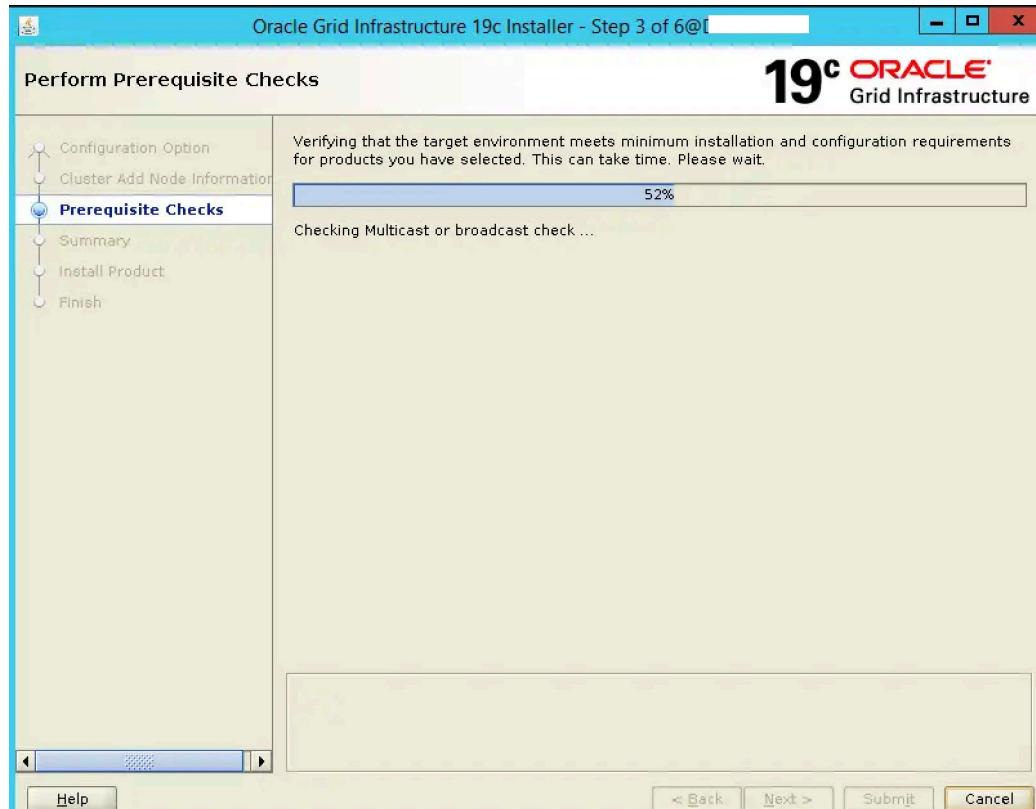
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Oracle Grid Infrastructure 19c Installer - Step 3 of 6@

### Perform Prerequisite Checks

**19<sup>c</sup> ORACLE<sup>®</sup>**  
Grid Infrastructure

[Configuration Option](#)  
[Cluster Add Node Information](#)  
**Prerequisite Checks**  
[Summary](#)  
[Install Product](#)  
[Finish](#)

**Verification Result** [Fixup Result](#)

Some of the minimum requirements for installation are not completed. Review and fix the issues listed in the following table, and recheck the system.

	Checks	Status	Fixable																						
<a href="#">Check A...</a>	<a href="#">Fix &amp; Check Again</a>	<a href="#">Show Failed</a>	<a href="#">All Nodes</a>	<input checked="" type="checkbox"/> <a href="#">Ignore All</a>																					
<table border="1"> <thead> <tr> <th>Checks</th> <th>Status</th> <th>Fixable</th> </tr> </thead> <tbody> <tr> <td><a href="#">[User Existence]</a></td> <td></td> <td></td> </tr> <tr> <td><a href="#">[User Existence: root]</a></td> <td></td> <td></td> </tr> <tr> <td><a href="#">User Existence: root</a></td> <td>Ignored</td> <td>No</td> </tr> <tr> <td><a href="#">Users With Same UID: 0</a></td> <td>Ignored</td> <td>No</td> </tr> <tr> <td><a href="#">Users With Same UID: 0</a></td> <td>Ignored</td> <td>No</td> </tr> <tr> <td><a href="#">/dev/shm mounted as temporary file system</a></td> <td>Ignored</td> <td>No</td> </tr> </tbody> </table>					Checks	Status	Fixable	<a href="#">[User Existence]</a>			<a href="#">[User Existence: root]</a>			<a href="#">User Existence: root</a>	Ignored	No	<a href="#">Users With Same UID: 0</a>	Ignored	No	<a href="#">Users With Same UID: 0</a>	Ignored	No	<a href="#">/dev/shm mounted as temporary file system</a>	Ignored	No
Checks	Status	Fixable																							
<a href="#">[User Existence]</a>																									
<a href="#">[User Existence: root]</a>																									
<a href="#">User Existence: root</a>	Ignored	No																							
<a href="#">Users With Same UID: 0</a>	Ignored	No																							
<a href="#">Users With Same UID: 0</a>	Ignored	No																							
<a href="#">/dev/shm mounted as temporary file system</a>	Ignored	No																							

This is a prerequisite condition to test whether user "root" exists on the system. ([more details](#))

Check Failed on Nodes: [004, 003]

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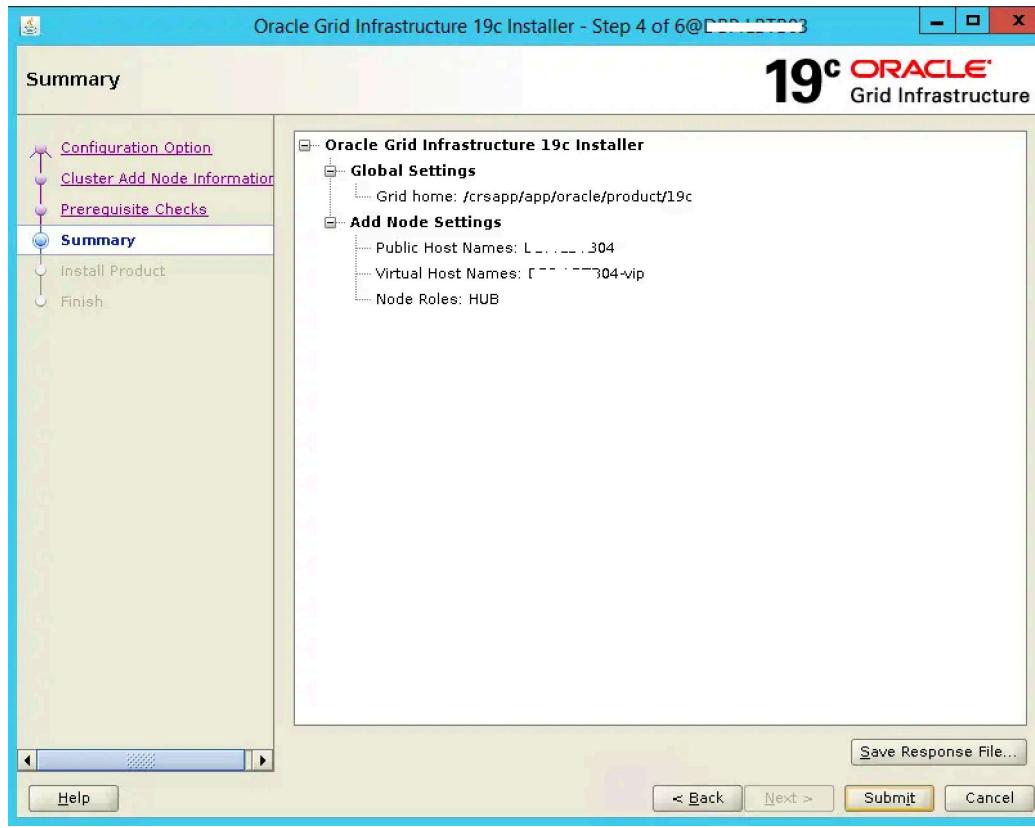
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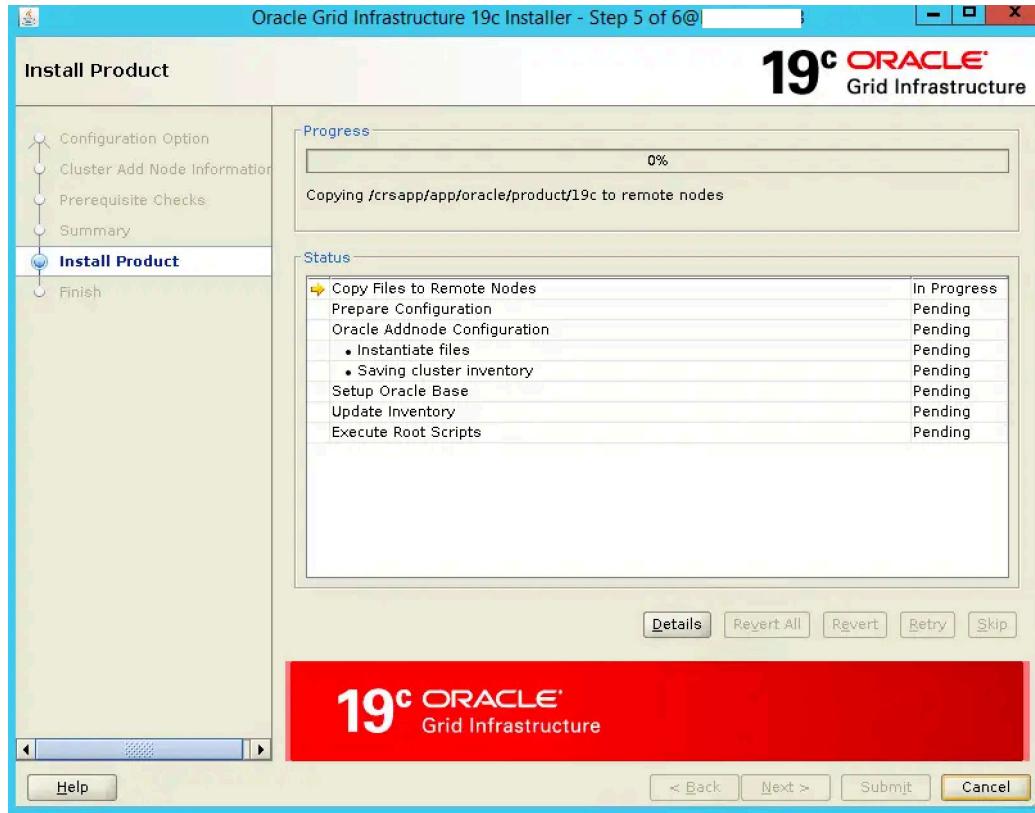
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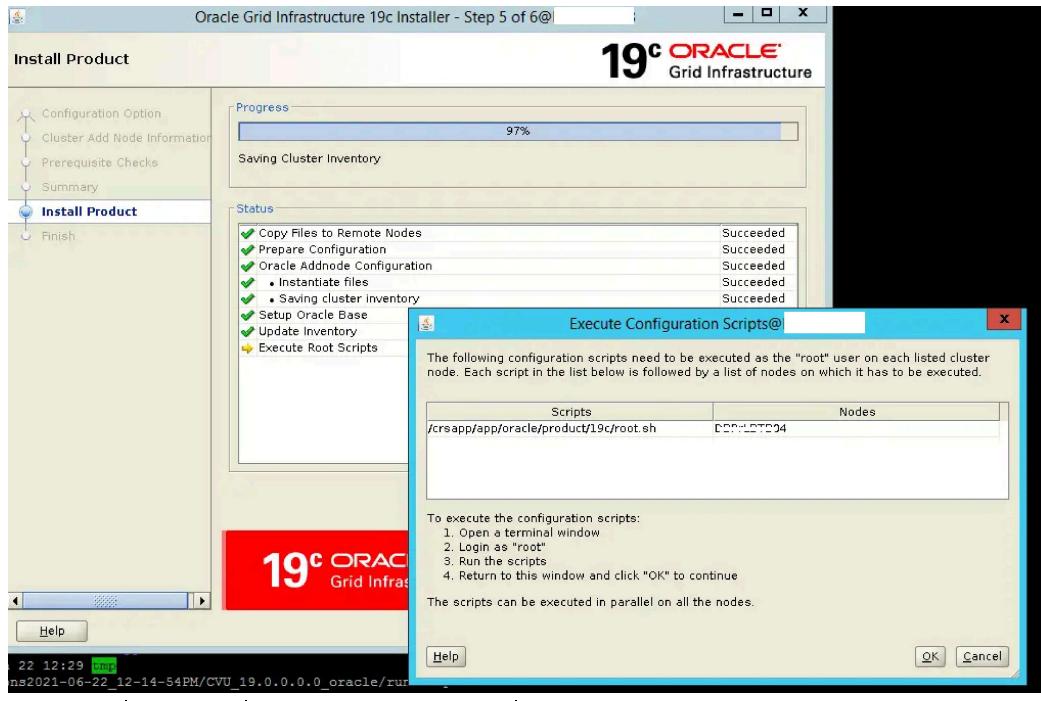
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#### Run root.sh script from the new node DBHOST04

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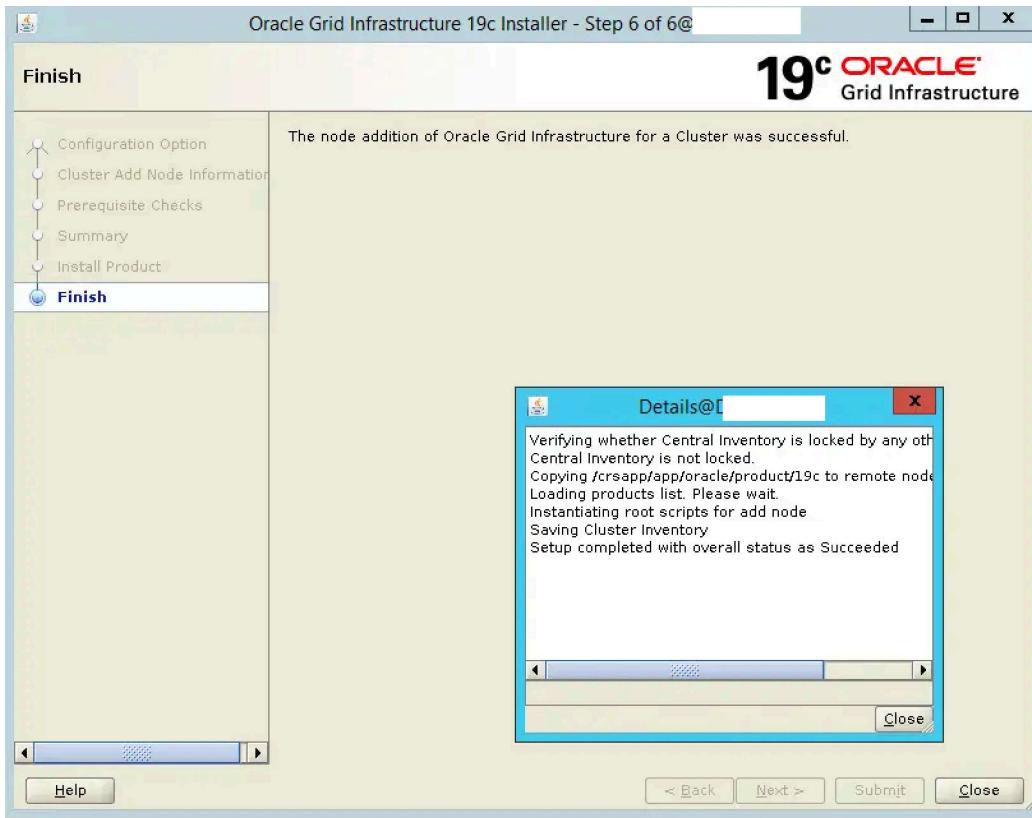
```
[root@DBHOST04 /]# /crsapp/app/oracle/product/19c/root.sh
Performing root user operation.

The following environment variables are set as:
  ORACLE_OWNER= oracle
  ORACLE_HOME= /crsapp/app/oracle/product/19c

Enter the full pathname of the local bin directory: [/usr/local/bin]:
The contents of "dbhome" have not changed. No need to overwrite.
The contents of "oraenv" have not changed. No need to overwrite.
The contents of "coraenv" have not changed. No need to overwrite.

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 script.
Now product-specific root actions will be performed.
Relinking oracle with rac_on option
Using configuration parameter file: /crsapp/app/oracle/product/19c/crs/install/crsconfig_params
The log of current session can be found at:
  /crsapp/app/oracle_base/crsdata_DBHOST04/crsconfig/rootcrs_DBHOST04_2021-06-22_12-39-53AM.log
2021/06/22 12:39:56 CLSRSC-594: Executing installation step 1 of 19: 'SetupTFA'.
2021/06/22 12:39:56 CLSRSC-594: Executing installation step 2 of 19: 'ValidateEnv'.
2021/06/22 12:39:56 CLSRSC-363: User ignored prerequisites during installation
2021/06/22 12:39:56 CLSRSC-594: Executing installation step 3 of 19: 'CheckFirstNode'.
2021/06/22 12:39:57 CLSRSC-594: Executing installation step 4 of 19: 'GenSiteGUIDs'.
2021/06/22 12:40:03 CLSRSC-594: Executing installation step 5 of 19: 'SetupOSD'.
Redirecting to /bin/systemctl restart rsyslog.service
2021/06/22 12:40:03 CLSRSC-594: Executing installation step 6 of 19: 'CheckCRSConfig'.
2021/06/22 12:40:05 CLSRSC-594: Executing installation step 7 of 19: 'SetupLocalGPNP'.
2021/06/22 12:40:06 CLSRSC-594: Executing installation step 8 of 19: 'CreateRootCert'.
2021/06/22 12:40:06 CLSRSC-594: Executing installation step 9 of 19: 'ConfigOLR'.
2021/06/22 12:40:17 CLSRSC-594: Executing installation step 10 of 19: 'ConfigCHMOS'.
2021/06/22 12:40:17 CLSRSC-594: Executing installation step 11 of 19: 'CreateOHASD'.
2021/06/22 12:40:18 CLSRSC-594: Executing installation step 12 of 19: 'ConfigOHASD'.
2021/06/22 12:40:19 CLSRSC-330: Adding Clusterware entries to file 'oracle-ohasd.service'
2021/06/22 12:41:08 CLSRSC-4002: Successfully installed Oracle Trace File Analyzer (TFA) Collector.
2021/06/22 12:41:35 CLSRSC-594: Executing installation step 13 of 19: 'InstallAFD'.
2021/06/22 12:41:35 CLSRSC-594: Executing installation step 14 of 19: 'InstallACFS'.
2021/06/22 12:43:15 CLSRSC-594: Executing installation step 15 of 19: 'InstallKA'.
2021/06/22 12:43:17 CLSRSC-594: Executing installation step 16 of 19: 'InitConfig'.
2021/06/22 12:43:25 CLSRSC-594: Executing installation step 17 of 19: 'StartCluster'.
2021/06/22 12:44:31 CLSRSC-343: Successfully started Oracle Clusterware stack
2021/06/22 12:44:31 CLSRSC-594: Executing installation step 18 of 19: 'ConfigNode'.
clscfg: EXISTING configuration version 19 detected.
Successfully accumulated necessary OCR keys.
Creating OCR keys for user 'root', privgrp 'root'..
Operation successful.
2021/06/22 12:44:50 CLSRSC-594: Executing installation step 19 of 19: 'PostConfig'.
2021/06/22 12:44:58 CLSRSC-325: Configure Oracle Grid Infrastructure for a Cluster ... succeeded
```





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#### Check the cluster resources:

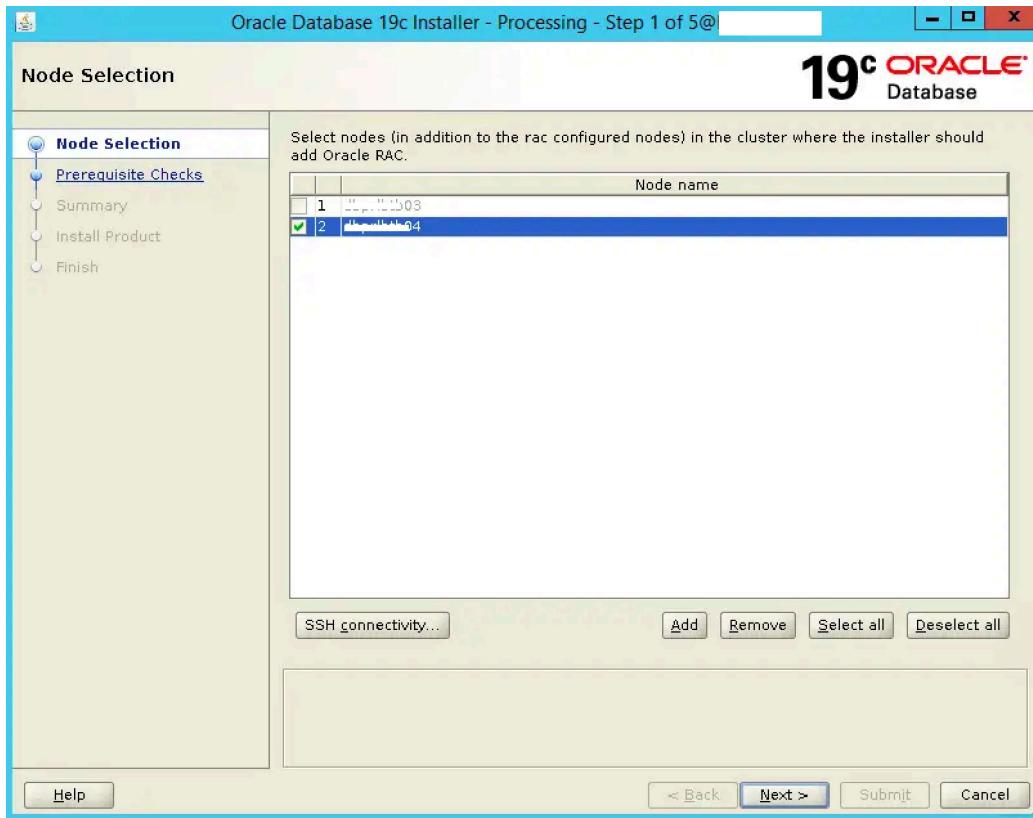
```
crsctl stat res -t
```

## 2. Extend oracle database home to new node using addnode.sh

If oracle database home is installed on existing node, then we need to extend the same oracle\_home to new node.  
addnode.sh script need to be run from the existing node.

— Run from existing node[ DBHOST03 ]

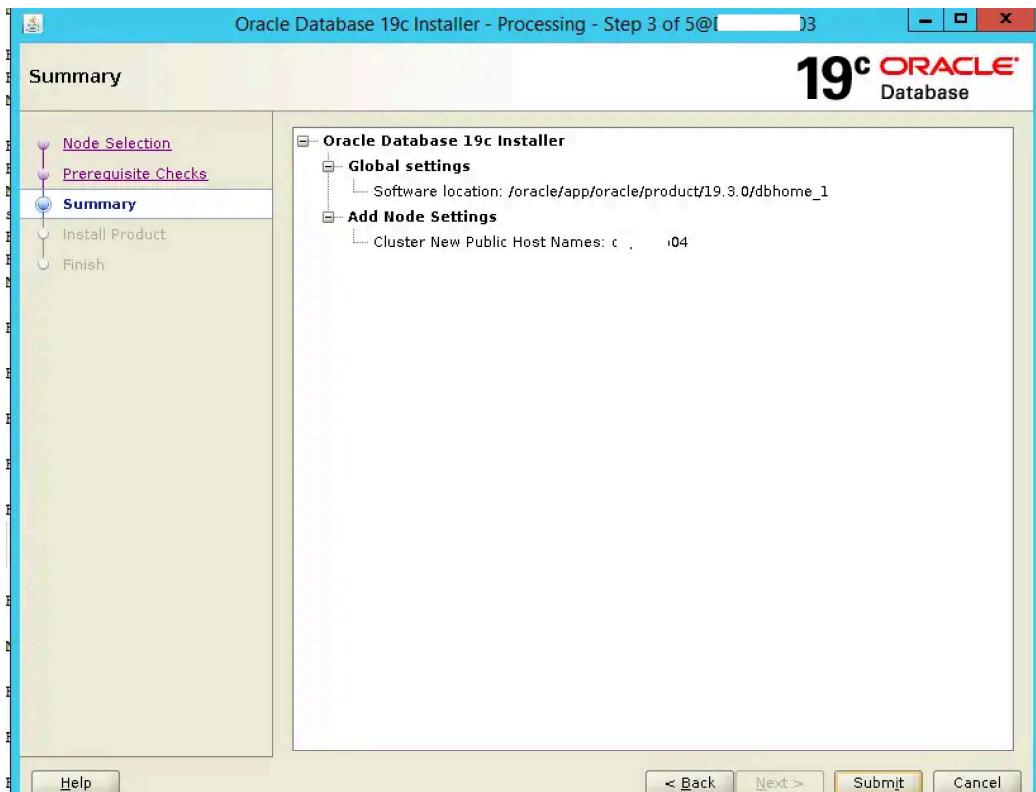
```
dbhost03$cd $ORACLE_HOME/addnode
dbhost03$./addnode.sh "CLUSTER_NEW_NODES={DBHOST04}"
```



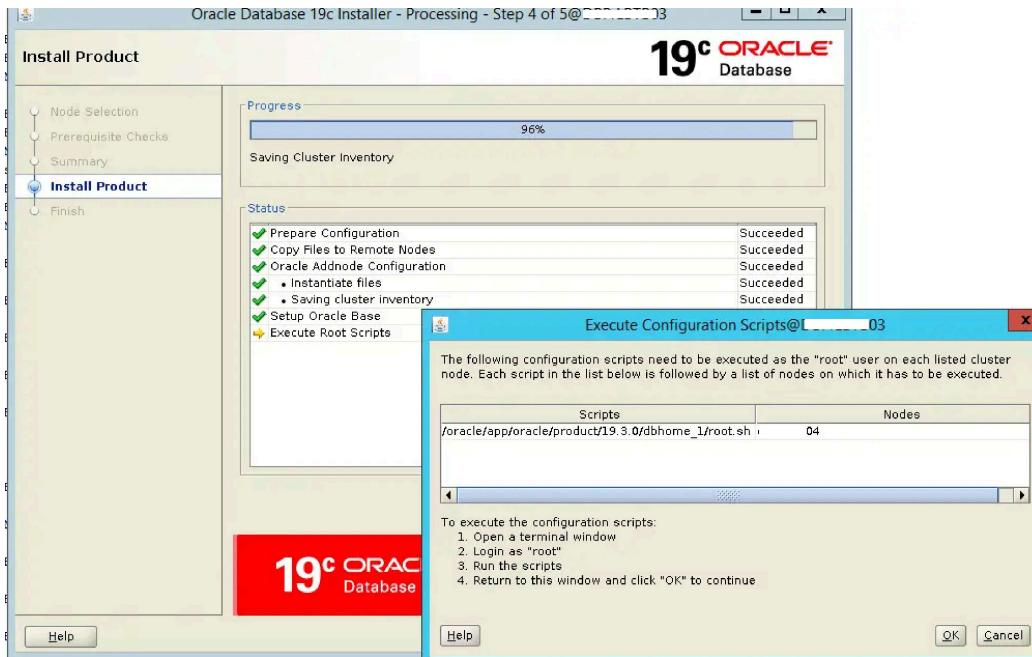
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Checks	Status	Fixable
Users With Same UID: 0	Ignored	No

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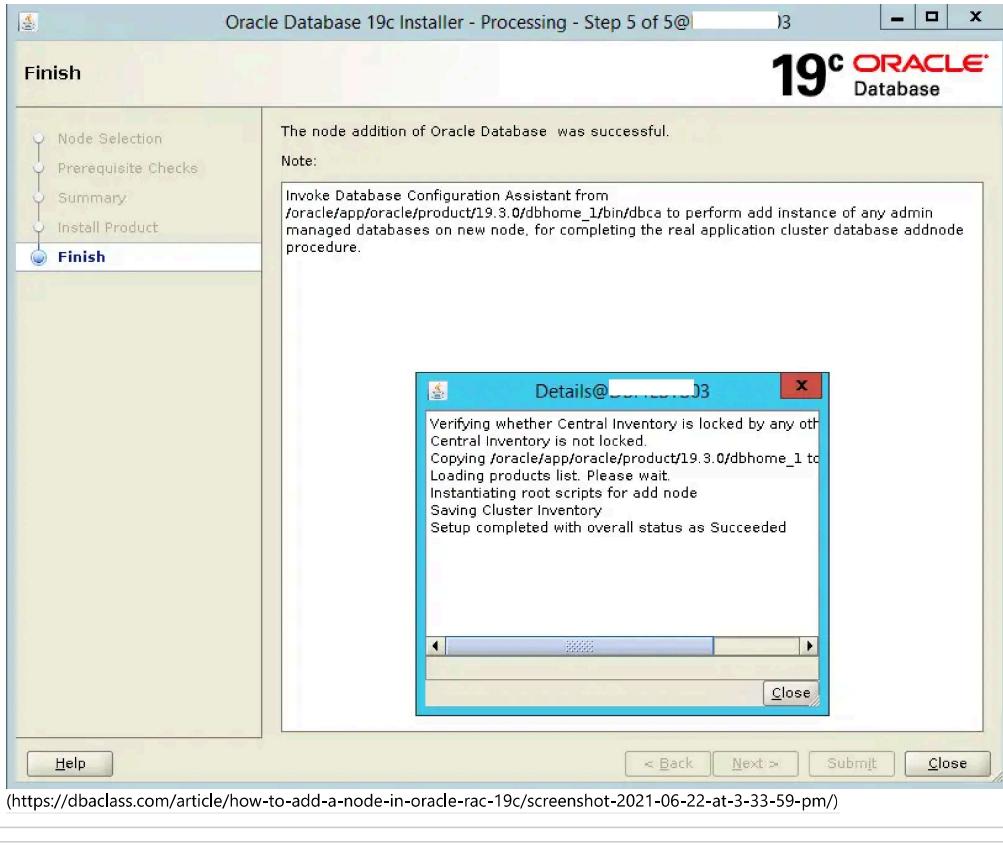


```
-- Run on new node DBHOST04
[root@DBHOST04 /]# /oracle/app/oracle/product/19.3.0/dbhome_1/root.sh
Performing root user operation.

The following environment variables are set as:
ORACLE_OWNER= oracle
ORACLE_HOME= /oracle/app/oracle/product/19.3.0/dbhome_1

Enter the full pathname of the local bin directory: [/usr/local/bin]:
The contents of "dbhome" have not changed. No need to overwrite.
The contents of "oraenv" have not changed. No need to overwrite.
The contents of "coraenv" have not changed. No need to overwrite.

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 script.
Now product-specific root actions will be performed.
```



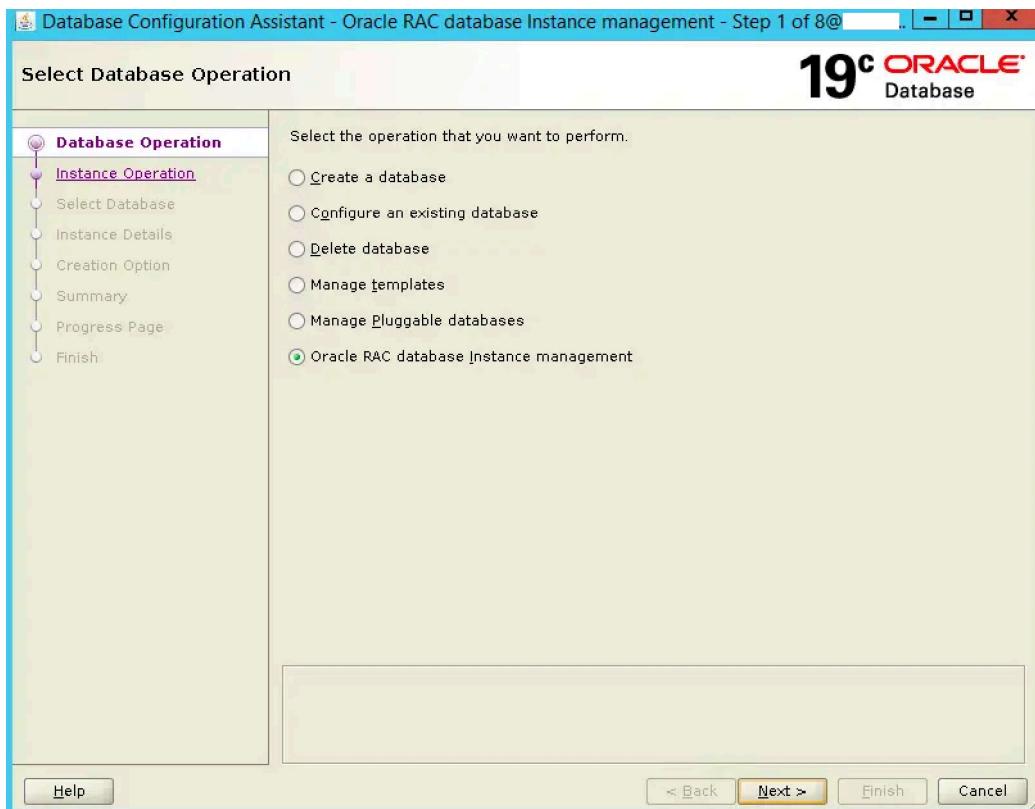
### 3. Add the instance on node using dbca utility( run on dbhost03)

```
dbhost03$ cd $ORACLE_HOME/bin
```

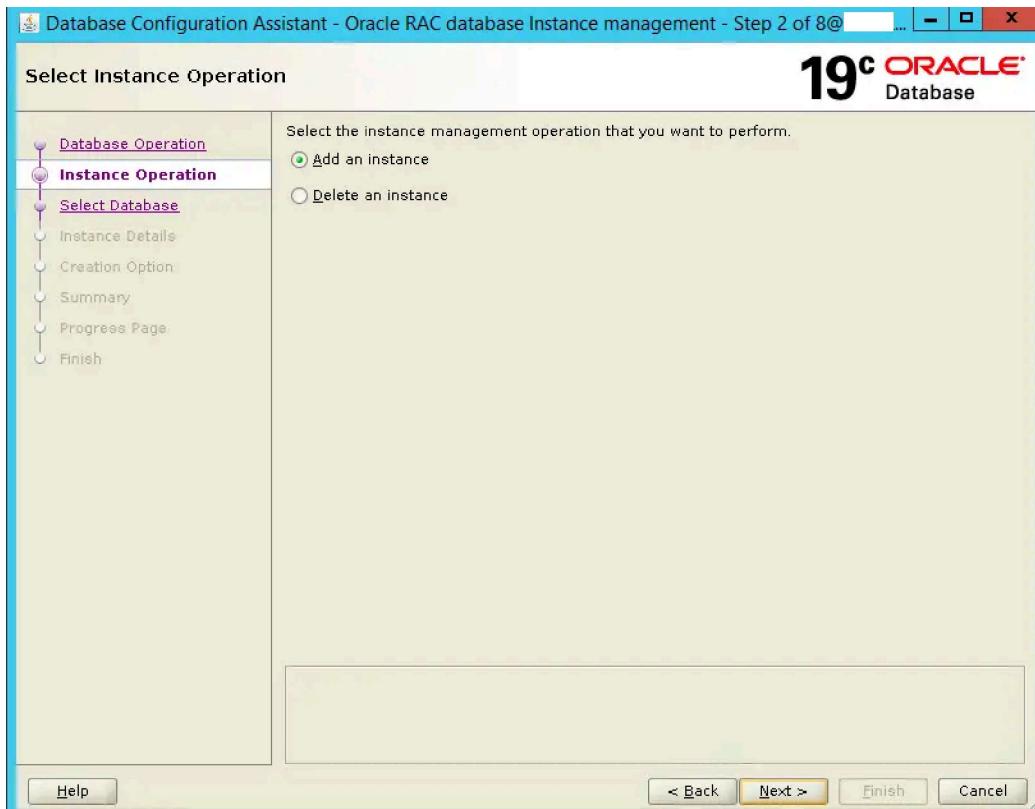
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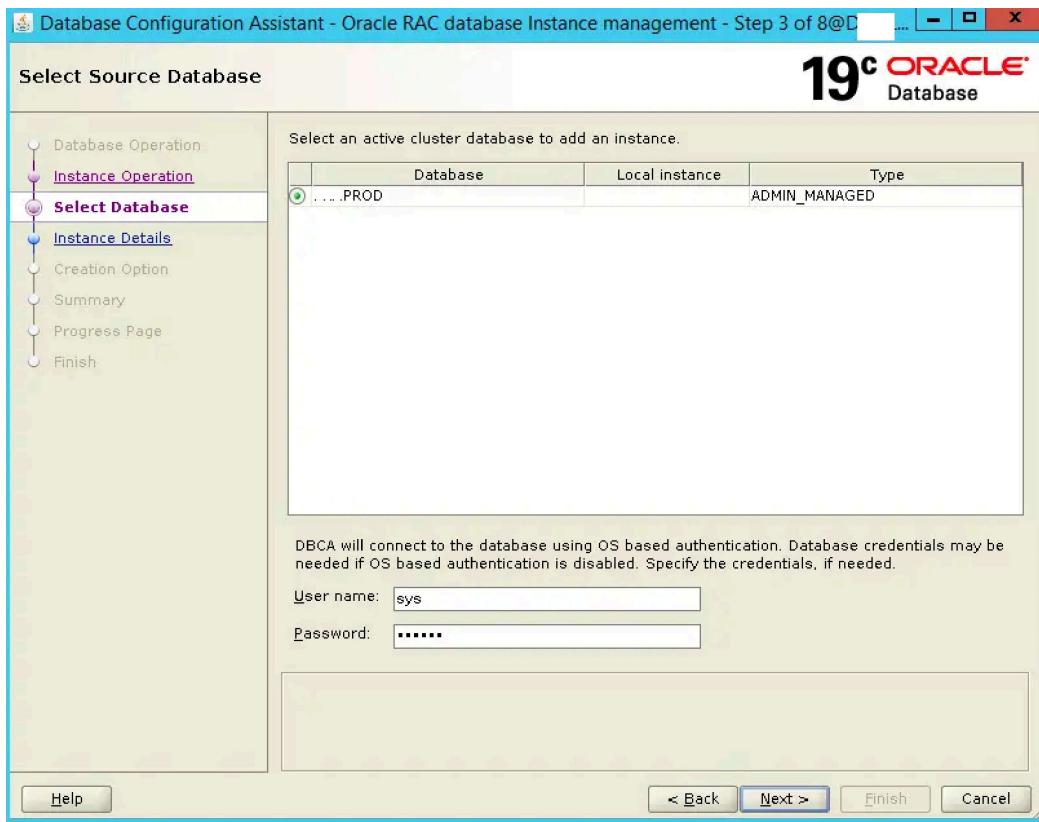
dbhost03\$ ./dbca



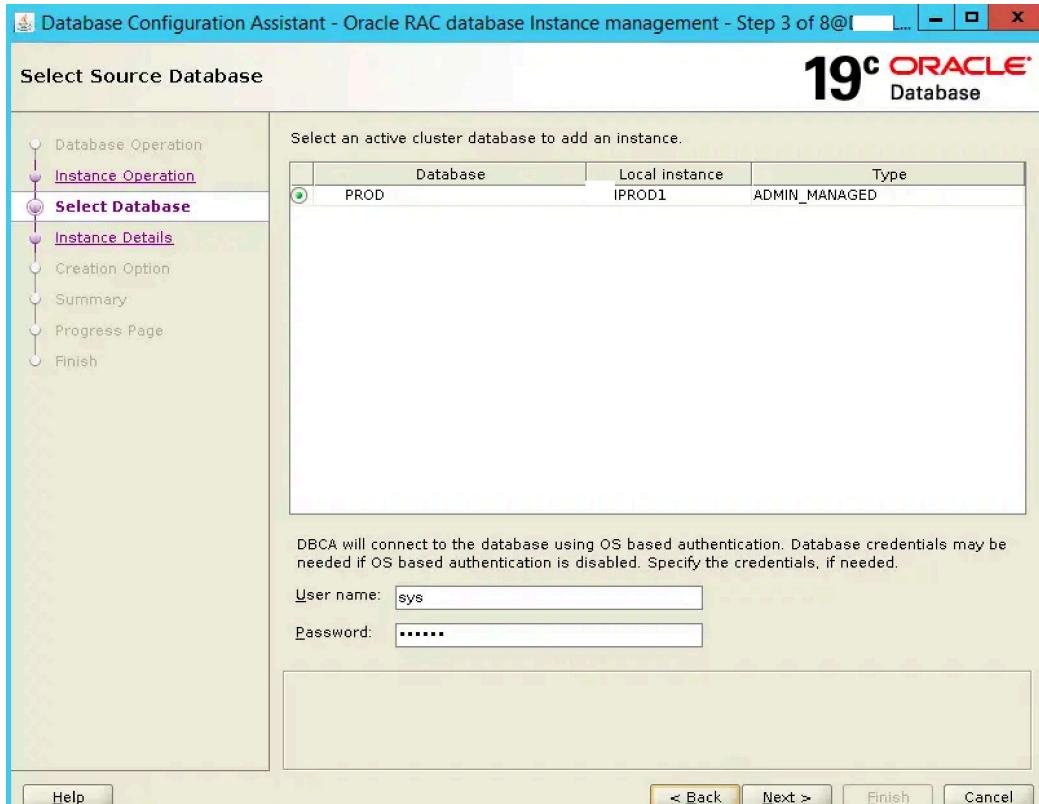
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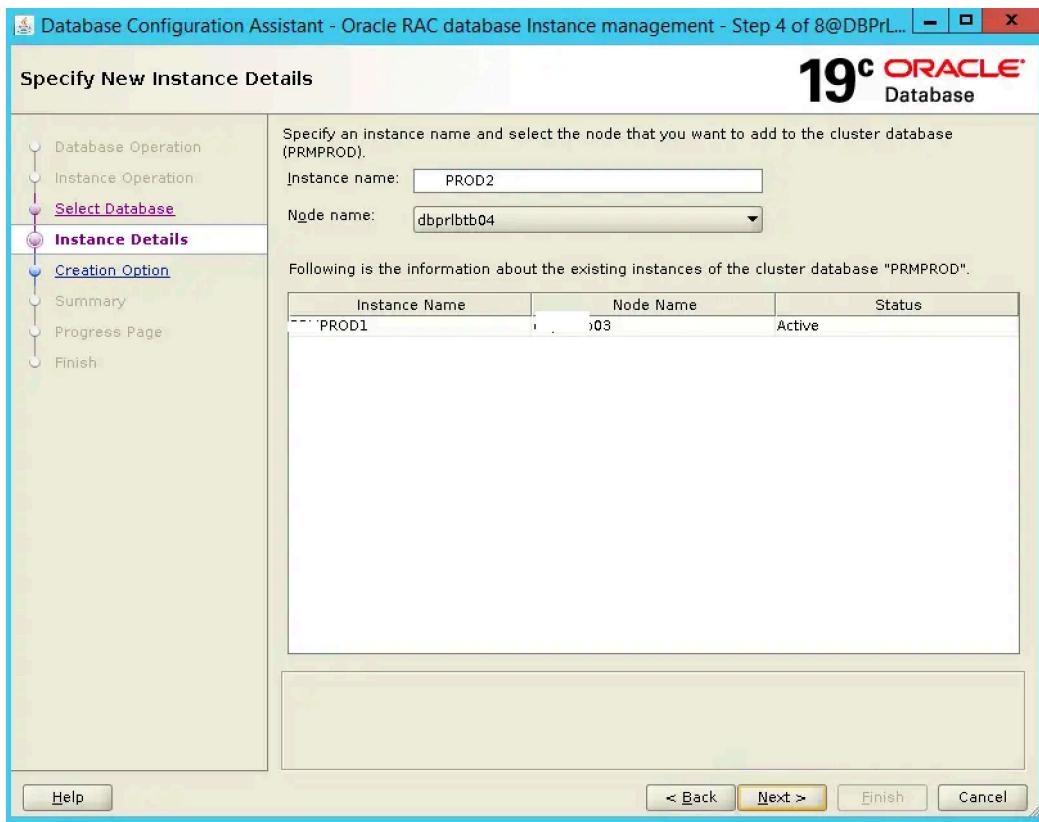
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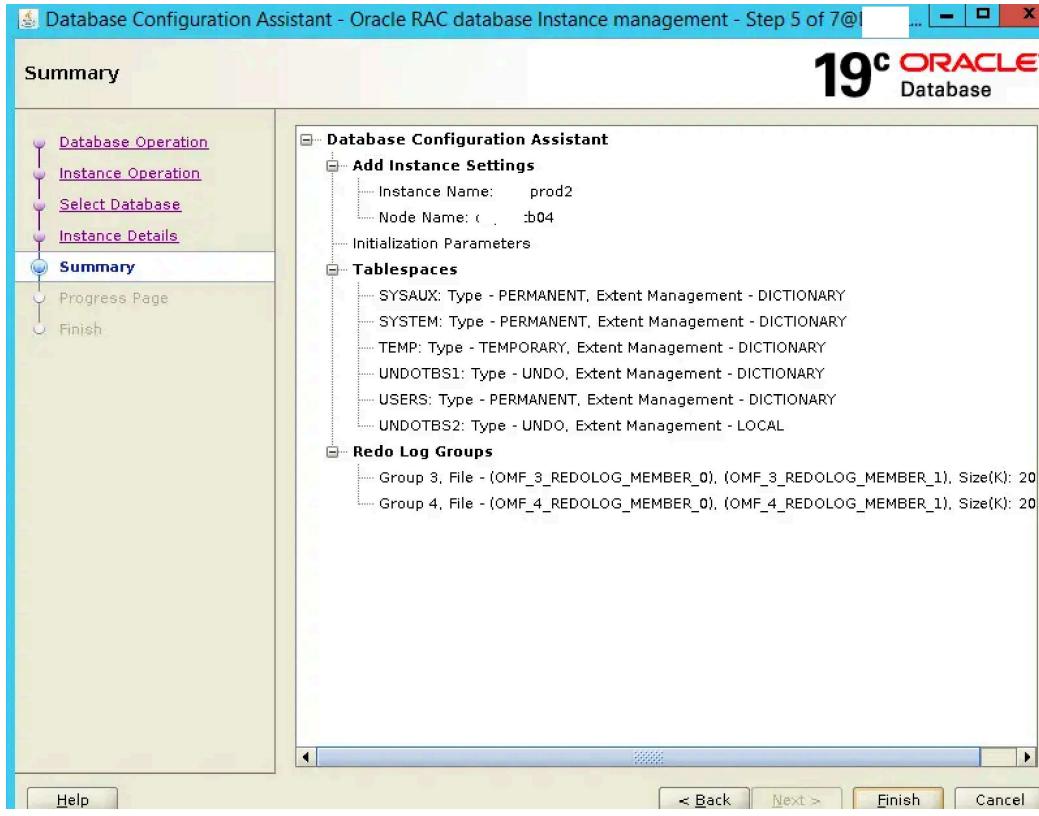
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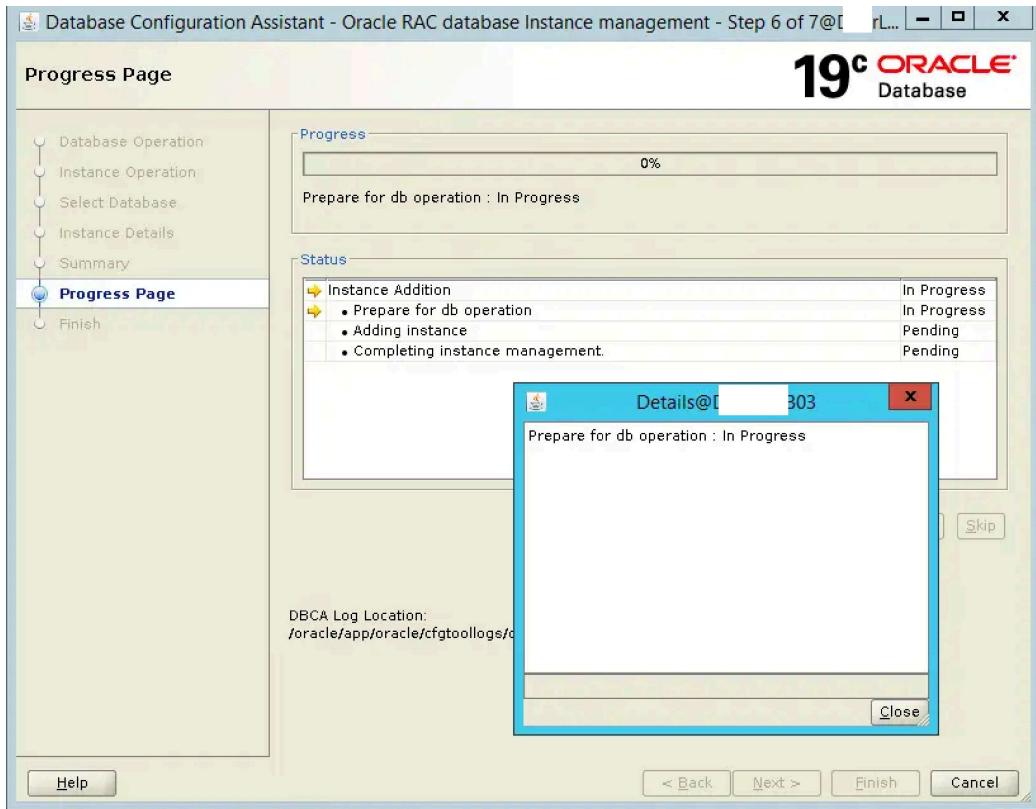
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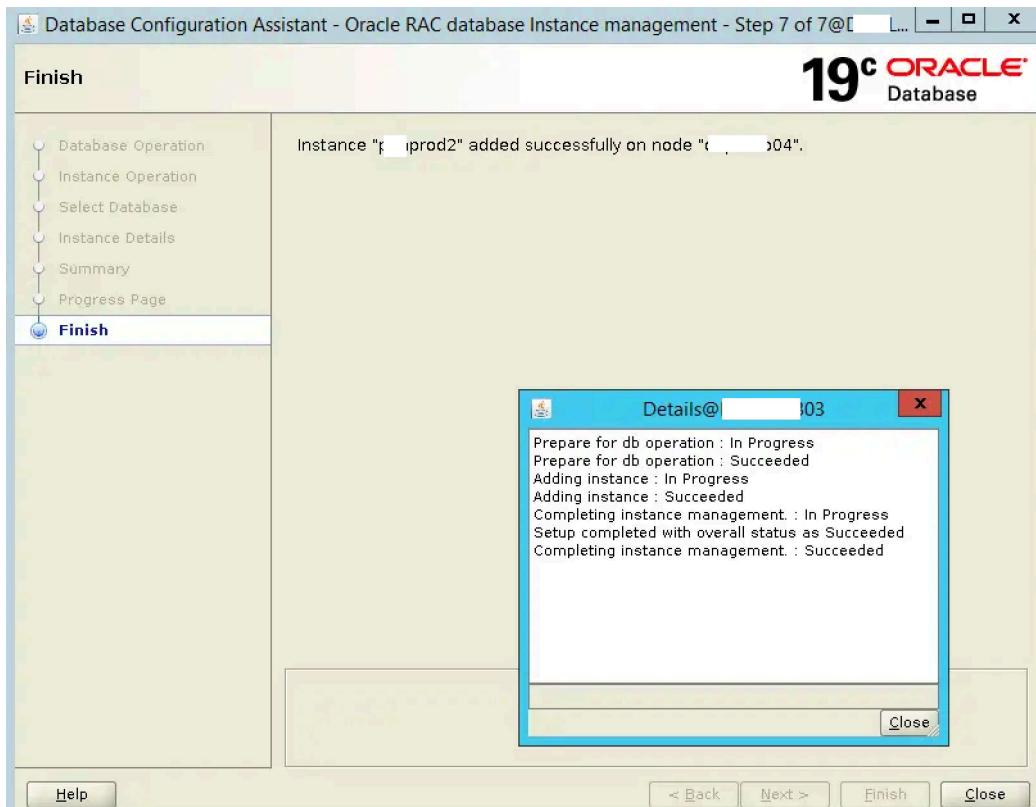
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```
[oracle@DBHOST03]$ crsctl status resource -w "TYPE = ora.database.type" -t
-----
Name      Target  State       Server          State details
-----
Cluster Resources
-----
ora.dbprod.db
  1      ONLINE  ONLINE     DBHOST03        Open,HOME=/oracle/ap
                                         p/oracle/product/19.
                                         3.0/dbhome_1,STABLE
  2      ONLINE  ONLINE     DBHOST04        Open,HOME=/oracle/ap
                                         p/oracle/product/19.
                                         3.0/dbhome_1,STABLE
-----
[oracle@DBHOST03]$
```

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## 2 thoughts on “How to add a node in oracle RAC 19c”



**Tushar Bhardwaj**

NOVEMBER 9, 2021 AT 8:03 AM ([HTTPS://DBACCLASS.COM/ARTICLE/HOW-TO-ADD-A-NODE-IN-ORACLE-RAC-19C/#COMMENT-123211](https://dbaclass.com/article/how-to-add-a-node-in-oracle-rac-19c/#comment-123211))

Hi,

The document is really good,

I have a que, do we need add Virtual IP & Private IP manually to ./etc/hosts

Thanks

Tushar Bhardwaj

REPLY



**Admin**

NOVEMBER 10, 2021 AT 3:09 AM ([HTTPS://DBACCLASS.COM/ARTICLE/HOW-TO-ADD-A-NODE-IN-ORACLE-RAC-19C/#COMMENT-123246](https://dbaclass.com/article/how-to-add-a-node-in-oracle-rac-19c/#comment-123246))

You can add them in /etc/hosts file. But public,virtual ips,scan ips should be resolved through DNS.

REPLY

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