

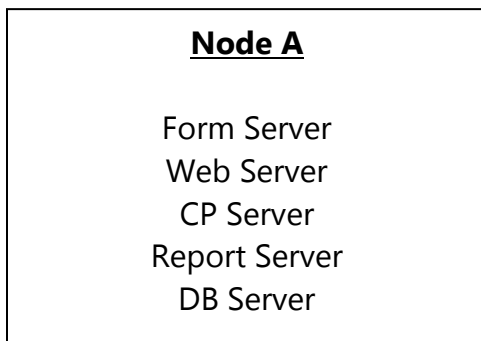
Author – *A.Kishore/Sachin*
<http://appsdba.info>

Adding an Additional Node to an existing Oracle Applications Instance Using Rapidclone

This document describes, how we can add an additional node to an existing Oracle Applications Instance using rapidclone method.

Current configuration

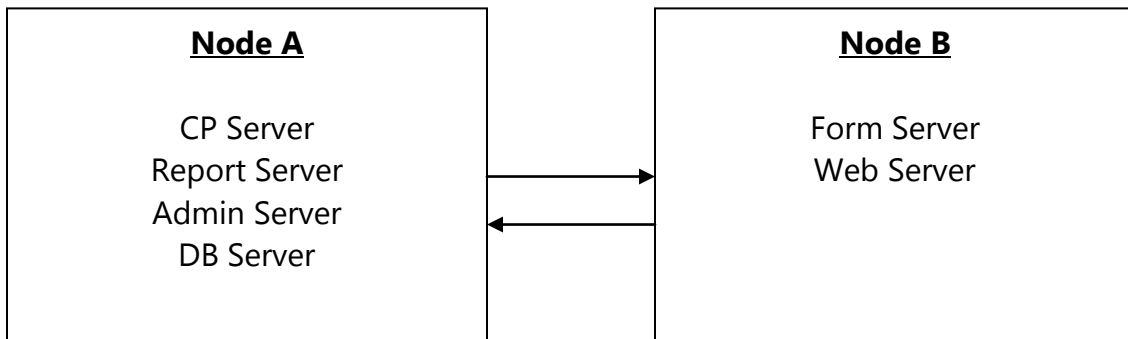
Suppose we have A single node instance of 11.5.10.2 on Linux machine.This is referred as Node A in this document.



Our Task

We want to introduce a new Linux node (take it as Node B) for the web and the forms server and split the instance into a two-node configuration.

We need to change our existing single node system to multi node system ,as shown below.



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

Node A Configuration

Application User: applmgr
Home Dir: /d01/oracle/applmgr
Oracle User: oracle
Home Dir: /d01/oracle/oracle
Instance SID: PROD

This task can be accomplished either by implementing a SHARED APPL_TOP concept or by using rapidclone. Here we are using rapidclone in this document.

Steps need to be performed to accomplish this task are as follows.

- ⊙ Run Pre Clone on Node A.
 - ⊙ Copy the Application Tier Files to Node B.
 - ⊙ Run Post Clone on Node A DB Tier and Apps Tier.
 - ⊙ Run post clone on Node B Apps Tier.
 - ⊙ Add the additional node script on Node A.
- **Run Pre Clone on Node A on database and applications tier.**
- **Run pre clone on Node A database tier.**

Login to Node A as the database owner (oracle) and set the environment

```
# su - oracle
$ cd proddb
$ cd 9.2.0/
$ ./PROD_Node_A.env
$ cd $ORACLE_HOME/appsutil/scripts/PROD_Node_A
$ perl adpreclone.pl dbTier
```

- **Pre-clone on Node A application tier**

Login to Node, A which is also our source system as the applications user and set the environment.

```
# su - applmgr
$ cd prodappl
$ ./APPSORA.env
$ cd $COMMON_TOP/admin/scripts/PROD_Node_A
$ perl adpreclone.pl appsTier
```

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

- **Disable security option**

In Oracle Applications 11.5.10 the SQL*NET restricted security option is enabled by default. As a result our new node Node_B will not be able to connect to the database. So, we must either disable this security option or the better way is to add Node_B to the list of trusted nodes through OAM.

- Oracle Applications Manager -> Security -> Disable Restricted Security Option.
- After this we must run Autoconfig on the database Tier and restart your listener.

```
# su - oracle
$ cd $ORACLE_HOME/appsutil/scripts/PROD_Node_A
$ ./adautocfg.sh
```

Restart the listener.

```
$ ./addInctl.sh stop PROD
```

```
$ ./addInctl.sh start PROD
```

- **Copy the Application Tier Files to Node B.**

- On Node B make the following directory structure

```
# cd /d02
# mkdir /oracle
# chmod -R 777 /d01/oracle
```

- Copy the files across to Node B

Shutdown on Application and Database services on Node A
tar -cf - prodappl | ssh Node_B tar -xf - -C /d02/oracle/

- **Post Clone on Node A Database Tier**

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

- Now you must run your post clone (adcfgclone.pl) on the database tier of Node_A preserving the original values.

```
# su - oracle
$ cd proddb/9.2.0/appsutil/clone/bin
$ perl adcfgclone.pl dbTier
```

- Post Clone on Node A Applications Tier

Now we run our post clone (adcfgclone.pl) on Node A applications Tier. We must remember to configure the services ,we require on this node in our case the CM and the Admin Node.

```
$ perl adcfgclone.pl appsTier
```

Once completed sucessfully this will start the specified services only in our source Node Node A.

➤ **Running Post clone On Node B**

Next we run our post clone on the Node B again specifying the services we like to configure which in our case were forms server and the web server.

```
$ perl adcfgclone.pl appsTier
```

➤ **Add the additional node script on Node A.**

We need to execute the Add Node script on Node A. After sourcing your environment file you must run the adaddnode.pl script on node A

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

```
#su - applmgr  
$ cd $COMMON_TOP/clone/bin  
$ perl adaddnode.pl
```

The script will prompt us for our APPS user and password and does the required new node entries to the database FND tables.

We can check the details of this new node and status through Oracle Applications Manager.