

How to duplicate 19c database on remote aws server using RMAN?

Task:

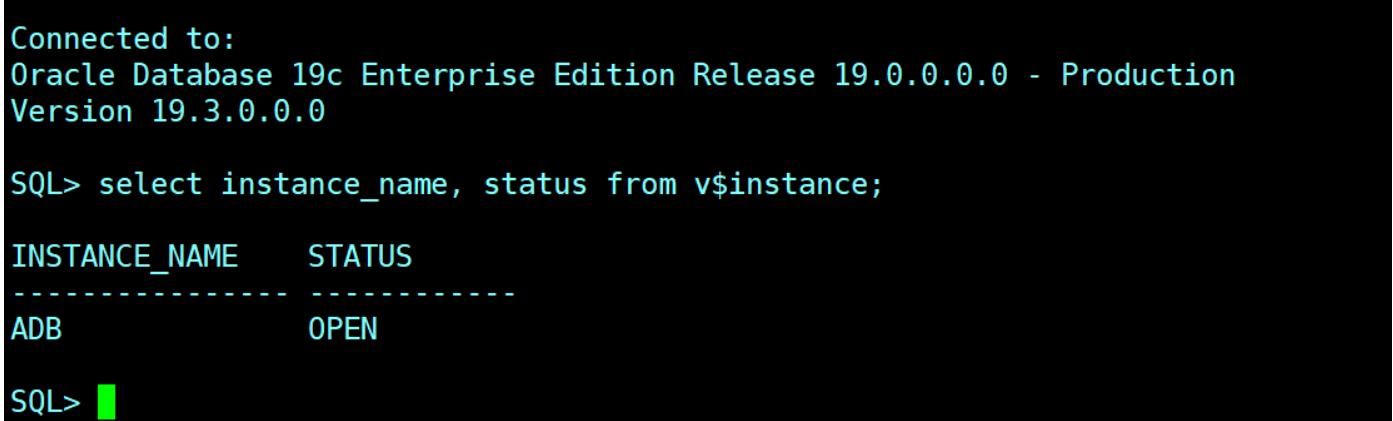
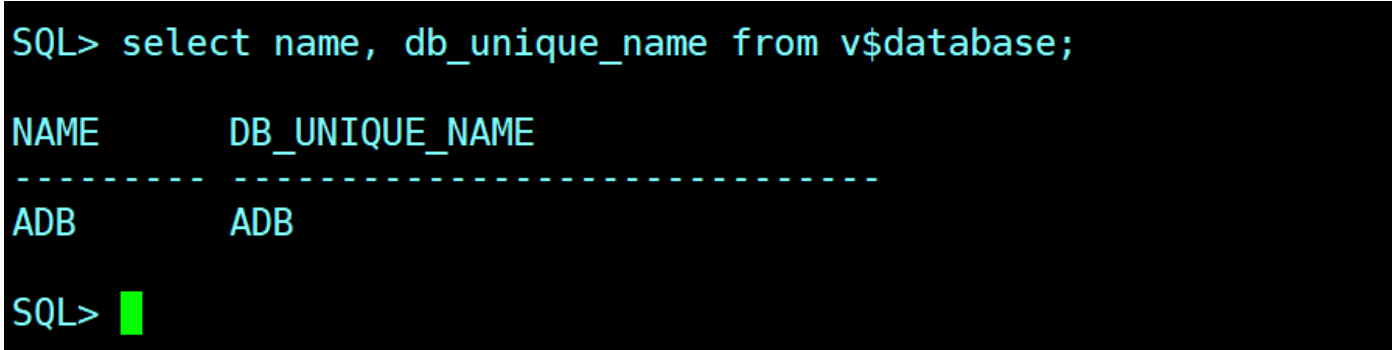
Task is to clone a database called ADB which is in Chicago to ADBCLONE in AWS.

Source and Destination is as follows:

	Source	Destination
Hostname:	<pre>\$ hostname Chi</pre>	<pre>\$ hostname ip-172-31-23-178.us-east-2.compute.internal</pre>
Host Alias	Chicago	AWS
Database Name:	ADB	ADBCLONE
Database Version:	19.3.0	19.3.0
ORACLE_BASE:	/u01/app/oracle	/u01/app/oracle
ORACLE_HOME:	\$ORACLE_BASE/prodcut/19.3.0_dbhome_1	\$ORACLE_BASE/prodcut/19.3.0_dbhome_1
TNS_ADMIN:	\$ORACLE_HOME/network/admin	\$ORACLE_HOME/network/admin
Temp Backup Location:	/u99/temp/Backup/ADB	/u99/temp/Backup/ADB
RMAN Catalog Used?	No	No

Listener Name:	LISTENER	LISTENER
Listener Port:	1521	1521

On Source Database Server:

No	Description	Command / Details / Screenshots
1	Putty to Source Database Server	
2	Set Database SID	<code>. oraenv → ADB</code>
3	Note: Verify database is up	<pre>sqlplus / as sysdba select instance_name, status from v\$instance;</pre>  <pre>Connected to: Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production Version 19.3.0.0.0 SQL> select instance_name, status from v\$instance; INSTANCE_NAME STATUS ----- ADB OPEN SQL></pre> <pre>select name, db_unique_name from v\$database;</pre>  <pre>SQL> select name, db_unique_name from v\$database; NAME DB_UNIQUE_NAME ----- ADB ADB SQL></pre>

4	Verify listener is up	<pre>lsnrctl status listener</pre> --If the listener is not up, start the listener <pre>lsnrctl start listener</pre> <pre> Chi:(ADB) Chicago \$ lsnrctl status listener LSNRCTL for Linux: Version 19.0.0.0.0 - Production on 07-SEP-2020 07:44:10 Copyright (c) 1991, 2019, Oracle. All rights reserved. Connecting to (DESCRIPTION=(ADDRESS=(PROTOCOL=TCP)(HOST=Chi)(PORT=1521))) STATUS of the LISTENER ----- Alias LISTENER Version TNSLSNR for Linux: Version 19.0.0.0.0 - Production Start Date 05-SEP-2020 11:09:54 Uptime 1 days 20 hr. 34 min. 15 sec Trace Level off Security ON: Local OS Authentication SNMP OFF Listener Parameter File /u01/app/oracle/product/19.3.0/dbhome_1/network/admin/listener.ora Listener Log File /u01/app/oracle/diag/tnslsnr/Chi/listener/alert/log.xml Listening Endpoints Summary... (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp)(HOST=Chi)(PORT=1521))) (DESCRIPTION=(ADDRESS=(PROTOCOL=ipc)(KEY=EXTPROC1521))) Services Summary... Service "ADB" has 1 instance(s). Instance "ADB", status READY, has 1 handler(s) for this service... Service "ADBXDB" has 1 instance(s). Instance "ADB", status READY, has 1 handler(s) for this service... Service "ADDB" has 1 instance(s). Instance "ADDB", status READY, has 1 handler(s) for this service... Service "ADDBXDB" has 1 instance(s). Instance "ADDB", status READY, has 1 handler(s) for this service... </pre>
5	Create a temp backup directory on Source Server:	<pre>mkdir -p /u99/temp/Backup/\$ORACLE_SID</pre>

```
Chi:(ADB) | Chicago
$ mkdir -p /u99/temp/Backup/$ORACLE_SID
Chi:(ADB) | Chicago
$ █
```

```
ls -ld /u99/temp/Backup/$ORACLE_SID
```

```
Chi:(ADB) | Chicago
$ ls -ld /u99/temp/Backup/$ORACLE_SID
drwxr-xr-x. 2 oracle oinstall 6 Sep  7 08:06 /u99/temp/Backup/ADB
Chi:(ADB) | Chicago
$ █
```

--Note: Be sure that you can create the same directory on destination server as well. Since we are not using rman catalog, we cannot catalog new backup location on destination database.

```
mkdir -p /u99/temp/Backup/ADB
```

```
ip-172-31-23-178.us-east-2.compute.internal: (ADBCLONE)
$ mkdir -p /u99/temp/Backup/ADB
```

```
ls -ld /u99/temp/Backup/ADB
```

```
$ ls -ld /u99/temp/Backup/ADB
drwxr-xr-x 2 oracle oinstall 4096 Sep  7 15:31 /u99/temp/Backup/ADB
ip-172-31-23-178.us-east-2.compute.internal: (ADBCLONE)
$ █
```

7

Take a full backup with archivelog

```
rman target /
run
{
  CONFIGURE CONTROLFILE AUTOBACKUP FORMAT FOR DEVICE TYPE DISK TO
  '/u99/temp/Backup/ADB/control_n_spfile_%F';
  CONFIGURE DEVICE TYPE DISK BACKUP TYPE TO COMPRESSED BACKUPSET
  PARALLELISM 4;
```

```

CONFIGURE CHANNEL DEVICE TYPE DISK FORMAT
'/u99/temp/Backup/ADB/full_%d_%T_%t_%U.bak' MAXPIECESIZE 1500 M;
BACKUP DATABASE PLUS ARCHIVELOG;
}

```

Chi:(ADB) | Chicago

```

$ rman target /
/temp/Backup/ADB/full %d %T %t %U.bak' MAXPIECESIZE 1500 M;
BACKUP DATABASE PLUS ARCHIVELOG;
}

```

Recovery Manager: Release 19.0.0.0.0 - Production on Mon Sep 7 08:16:53 2020
Version 19.3.0.0.0

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connected to target database: ADB (DBID=1857766239)

RMAN> 2> 3>

using target database control file instead of recovery catalog

new RMAN configuration parameters:

```

CONFIGURE CONTROLFILE AUTOBACKUP FORMAT FOR DEVICE TYPE DISK TO '/u99/temp/Backup/ADB/control_n_spfile_%F';
new RMAN configuration parameters are successfully stored

```

new RMAN configuration parameters:

```

CONFIGURE DEVICE TYPE DISK BACKUP TYPE TO COMPRESSED BACKUPSET PARALLELISM 4;
new RMAN configuration parameters are successfully stored

```

new RMAN configuration parameters:

```

CONFIGURE DEVICE TYPE DISK BACKUP TYPE TO COMPRESSED BACKUPSET PARALLELISM 4;
new RMAN configuration parameters are successfully stored

```

new RMAN configuration parameters:

```

CONFIGURE CHANNEL DEVICE TYPE DISK FORMAT '/u99/temp/Backup/ADB/full_%d_%T_%t_%U.bak' MAXPIECESIZE 1500 M;
new RMAN configuration parameters are successfully stored

```

Starting backup at 07-SEP-20

current log archived

allocated channel: ORA_DISK_1

channel ORA_DISK_1: SID=506 device type=DISK

allocated channel: ORA_DISK_2

channel ORA_DISK_2: SID=629 device type=DISK

allocated channel: ORA_DISK_3

channel ORA_DISK_3: SID=752 device type=DISK

allocated channel: ORA_DISK_4

```

channel ORA_DISK_4: SID=875 device type=DISK
channel ORA_DISK_1: starting compressed archived log backup set
channel ORA_DISK_1: specifying archived log(s) in backup set
input archived log thread=1 sequence=50 RECID=4 STAMP=1050476143
input archived log thread=1 sequence=51 RECID=5 STAMP=1050476152
input archived log thread=1 sequence=52 RECID=6 STAMP=1050476159
channel ORA_DISK_1: starting piece 1 at 07-SEP-20
channel ORA_DISK_2: starting compressed archived log backup set
channel ORA_DISK_2: specifying archived log(s) in backup set
input archived log thread=1 sequence=47 RECID=1 STAMP=1050476103
input archived log thread=1 sequence=48 RECID=2 STAMP=1050476122
input archived log thread=1 sequence=49 RECID=3 STAMP=1050476131
channel ORA_DISK_2: starting piece 1 at 07-SEP-20
channel ORA_DISK_3: starting compressed archived log backup set
channel ORA_DISK_3: specifying archived log(s) in backup set
input archived log thread=1 sequence=53 RECID=7 STAMP=1050476167
input archived log thread=1 sequence=54 RECID=8 STAMP=1050476265
input archived log thread=1 sequence=55 RECID=9 STAMP=1050481019
channel ORA_DISK_3: starting piece 1 at 07-SEP-20
channel ORA_DISK_3: finished piece 1 at 07-SEP-20
piece handle=/u99/temp/Backup/ADB/full_ADB_20200907_1050481024_03v9q4c0_1_1.bak tag=TAG20200907T081703 comment=NONE
channel ORA_DISK_3: backup set complete, elapsed time: 00:00:03
channel ORA_DISK_1: finished piece 1 at 07-SEP-20
piece handle=/u99/temp/Backup/ADB/full_ADB_20200907_1050481023_01v9q4bv_1_1.bak tag=TAG20200907T081703 comment=NONE
channel ORA_DISK_1: backup set complete, elapsed time: 00:00:08

```

```

piece handle=/u99/temp/Backup/ADB/full_ADB_20200907_1050481024_02v9q4c0_1_1.ba
channel ORA_DISK_2: backup set complete, elapsed time: 00:00:07
Finished backup at 07-SEP-20

Starting backup at 07-SEP-20
using channel ORA_DISK_1
using channel ORA_DISK_2
using channel ORA_DISK_3
using channel ORA_DISK_4
channel ORA_DISK_1: starting compressed full datafile backup set
channel ORA_DISK_1: specifying datafile(s) in backup set
input datafile file number=00001 name=/u14/oradata/ADB/system01.dbf
channel ORA_DISK_1: starting piece 1 at 07-SEP-20
channel ORA_DISK_2: starting compressed full datafile backup set
channel ORA_DISK_2: specifying datafile(s) in backup set
input datafile file number=00003 name=/u14/oradata/ADB/sysaux01.dbf
channel ORA_DISK_2: starting piece 1 at 07-SEP-20
channel ORA_DISK_3: starting compressed full datafile backup set
channel ORA_DISK_3: specifying datafile(s) in backup set
input datafile file number=00004 name=/u14/oradata/ADB/undotbs01.dbf
channel ORA_DISK_3: starting piece 1 at 07-SEP-20
channel ORA_DISK_4: starting compressed full datafile backup set
channel ORA_DISK_4: specifying datafile(s) in backup set
input datafile file number=00007 name=/u14/oradata/ADB/users01.dbf

```

```

channel ORA_DISK_4: starting piece 1 at 07-SEP-20
channel ORA_DISK_3: finished piece 1 at 07-SEP-20
piece handle=/u99/temp/Backup/ADB/full_ADB_20200907_1050481033_06v9q4c9_1_1.bak tag=TAG20200907T081711 comment=NONE
channel ORA_DISK_3: backup set complete, elapsed time: 00:00:03
channel ORA_DISK_4: finished piece 1 at 07-SEP-20
piece handle=/u99/temp/Backup/ADB/full_ADB_20200907_1050481034_07v9q4ca_1_1.bak tag=TAG20200907T081711 comment=NONE
channel ORA_DISK_4: backup set complete, elapsed time: 00:00:03
channel ORA_DISK_2: finished piece 1 at 07-SEP-20
piece handle=/u99/temp/Backup/ADB/full_ADB_20200907_1050481033_05v9q4c9_1_1.bak tag=TAG20200907T081711 comment=NONE
channel ORA_DISK_2: backup set complete, elapsed time: 00:00:16
channel ORA_DISK_1: finished piece 1 at 07-SEP-20
piece handle=/u99/temp/Backup/ADB/full_ADB_20200907_1050481033_04v9q4c9_1_1.bak tag=TAG20200907T081711 comment=NONE
channel ORA_DISK_1: backup set complete, elapsed time: 00:00:46
Finished backup at 07-SEP-20

```

```

Starting backup at 07-SEP-20
current log archived
using channel ORA_DISK_1
using channel ORA_DISK_2
using channel ORA_DISK_3
using channel ORA_DISK_4
channel ORA_DISK_1: starting compressed archived log backup set
channel ORA_DISK_1: specifying archived log(s) in backup set
input archived log thread=1 sequence=56 RECID=10 STAMP=1050481081
channel ORA_DISK_1: starting piece 1 at 07-SEP-20

```

Activate
Go to Settings

```

current log archived
using channel ORA_DISK_1
using channel ORA_DISK_2
using channel ORA_DISK_3
using channel ORA_DISK_4
channel ORA_DISK_1: starting compressed archived log backup set
channel ORA_DISK_1: specifying archived log(s) in backup set
input archived log thread=1 sequence=56 RECID=10 STAMP=1050481081
channel ORA_DISK_1: starting piece 1 at 07-SEP-20
channel ORA_DISK_1: finished piece 1 at 07-SEP-20
piece handle=/u99/temp/Backup/ADB/full_ADB_20200907_1050481081_08v9q4dp_1_1.bak tag=TAG20200907T081801 comment=NONE
channel ORA_DISK_1: backup set complete, elapsed time: 00:00:01
Finished backup at 07-SEP-20

```

```

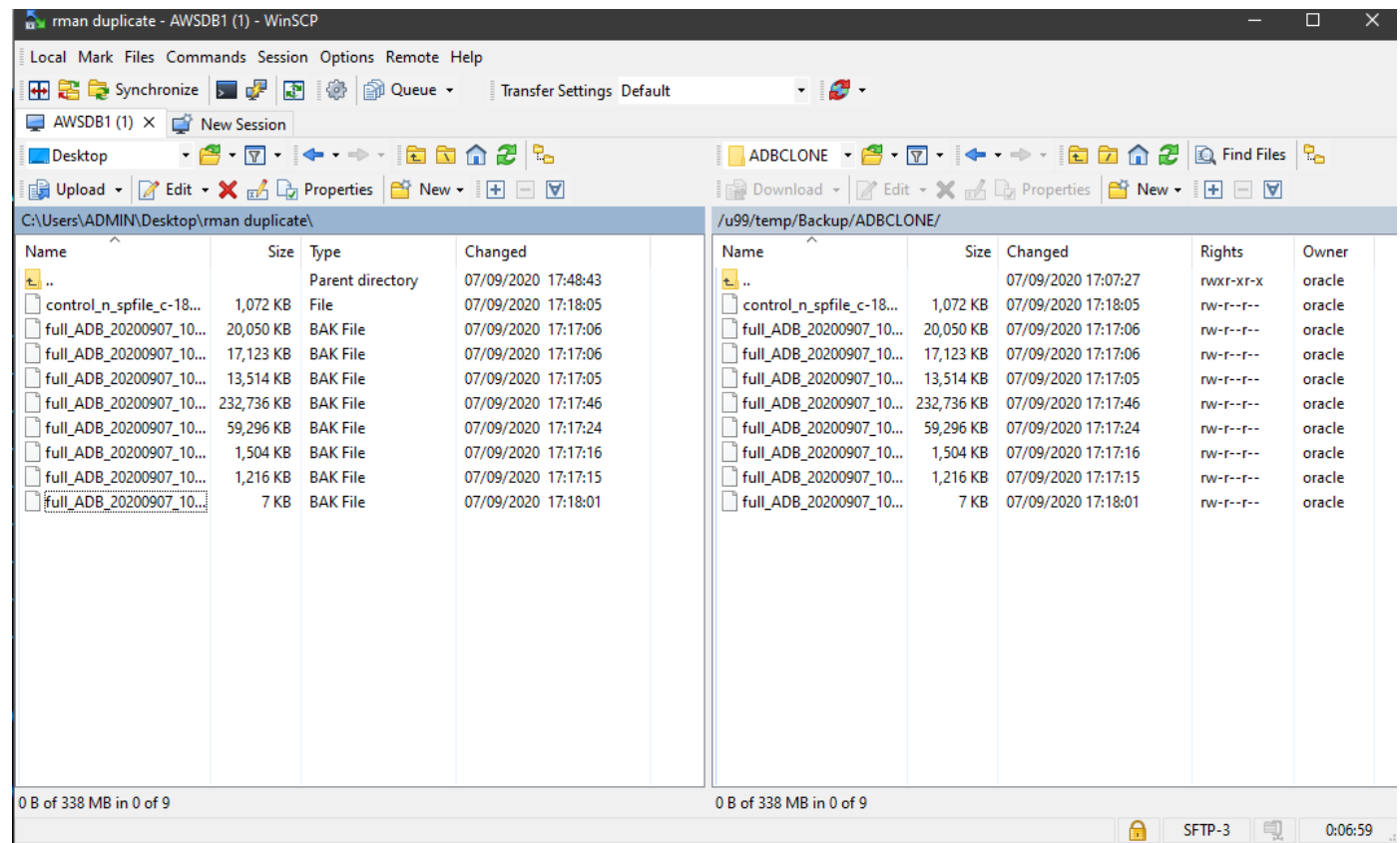
Starting Control File and SPFILE Autobackup at 07-SEP-20
piece handle=/u99/temp/Backup/ADB/control_n_spfile_c-1857766239-20200907-00 comment=NONE
Finished Control File and SPFILE Autobackup at 07-SEP-20

```

RMAN> █

Activate Window
Go to Settings to activate

8	Send backups to destination server	<pre> \$ cd /u99/temp/Backup/\$ORACLE_SID/ Chi:(ADB) Chicago \$ ls -ltrh total 339M -rw-r-----. 1 oracle oinstall 14M Sep 7 08:17 full_ADB_20200907_1050481024_03v9q4c0_1_1.bak -rw-r-----. 1 oracle oinstall 20M Sep 7 08:17 full_ADB_20200907_1050481023_01v9q4bv_1_1.bak -rw-r-----. 1 oracle oinstall 17M Sep 7 08:17 full_ADB_20200907_1050481024_02v9q4c0_1_1.bak -rw-r-----. 1 oracle oinstall 1.2M Sep 7 08:17 full_ADB_20200907_1050481034_07v9q4ca_1_1.bak -rw-r-----. 1 oracle oinstall 1.5M Sep 7 08:17 full_ADB_20200907_1050481033_06v9q4c9_1_1.bak -rw-r-----. 1 oracle oinstall 58M Sep 7 08:17 full_ADB_20200907_1050481033_05v9q4c9_1_1.bak -rw-r-----. 1 oracle oinstall 228M Sep 7 08:17 full_ADB_20200907_1050481033_04v9q4c9_1_1.bak -rw-r-----. 1 oracle oinstall 6.5K Sep 7 08:18 full_ADB_20200907_1050481081_08v9q4dp_1_1.bak -rw-r-----. 1 oracle oinstall 1.1M Sep 7 08:18 control_n_spfile_c-1857766239-20200907-00 Chi:(ADB) Chicago \$ chmod 644 full_ADB_20200907_1050481023_01v9q4bv_1_1.bak Chi:(ADB) Chicago \$ chmod 644 full_ADB_20200907_1050481024_02v9q4c0_1_1.bak Chi:(ADB) Chicago \$ chmod 644 full_ADB_20200907_1050481034_07v9q4ca_1_1.bak Chi:(ADB) Chicago \$ chmod 644 full_ADB_20200907_1050481033_06v9q4c9_1_1.bak Chi:(ADB) Chicago \$ chmod 644 full_ADB_20200907_1050481033_05v9q4c9_1_1.bak Chi:(ADB) Chicago \$ chmod 644 full_ADB_20200907_1050481033_04v9q4c9_1_1.bak Chi:(ADB) Chicago cd /u99/temp/Backup/\$ORACLE_SID/ chmod 644 full_ADB_20200907_1050481024_03v9q4c0_1_1.bak Winscp backup files to aws server </pre>
---	------------------------------------	--



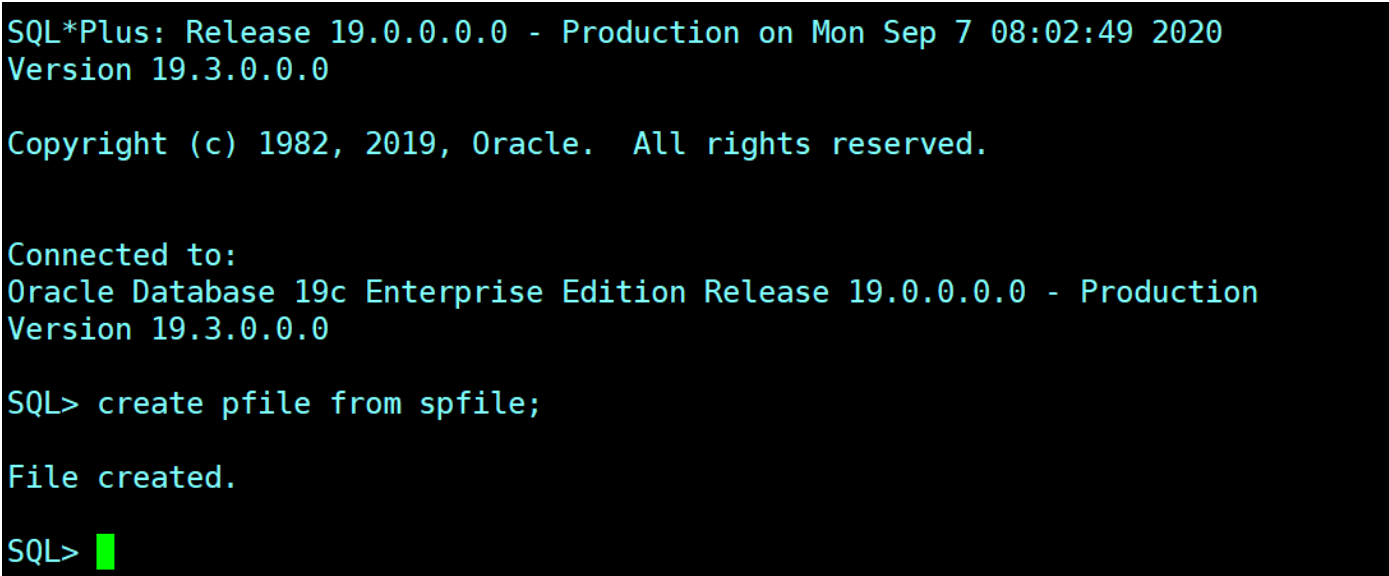
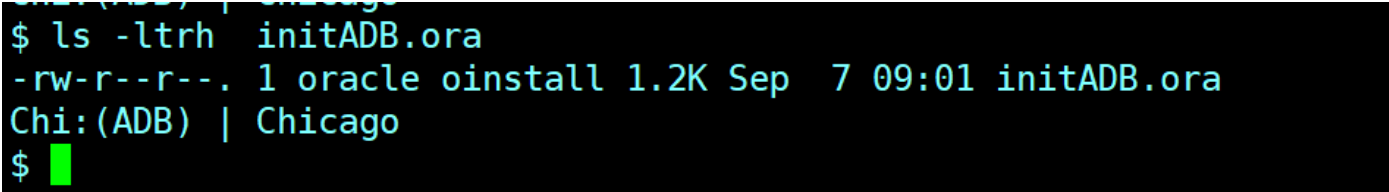
Verify backups are sent to destination server

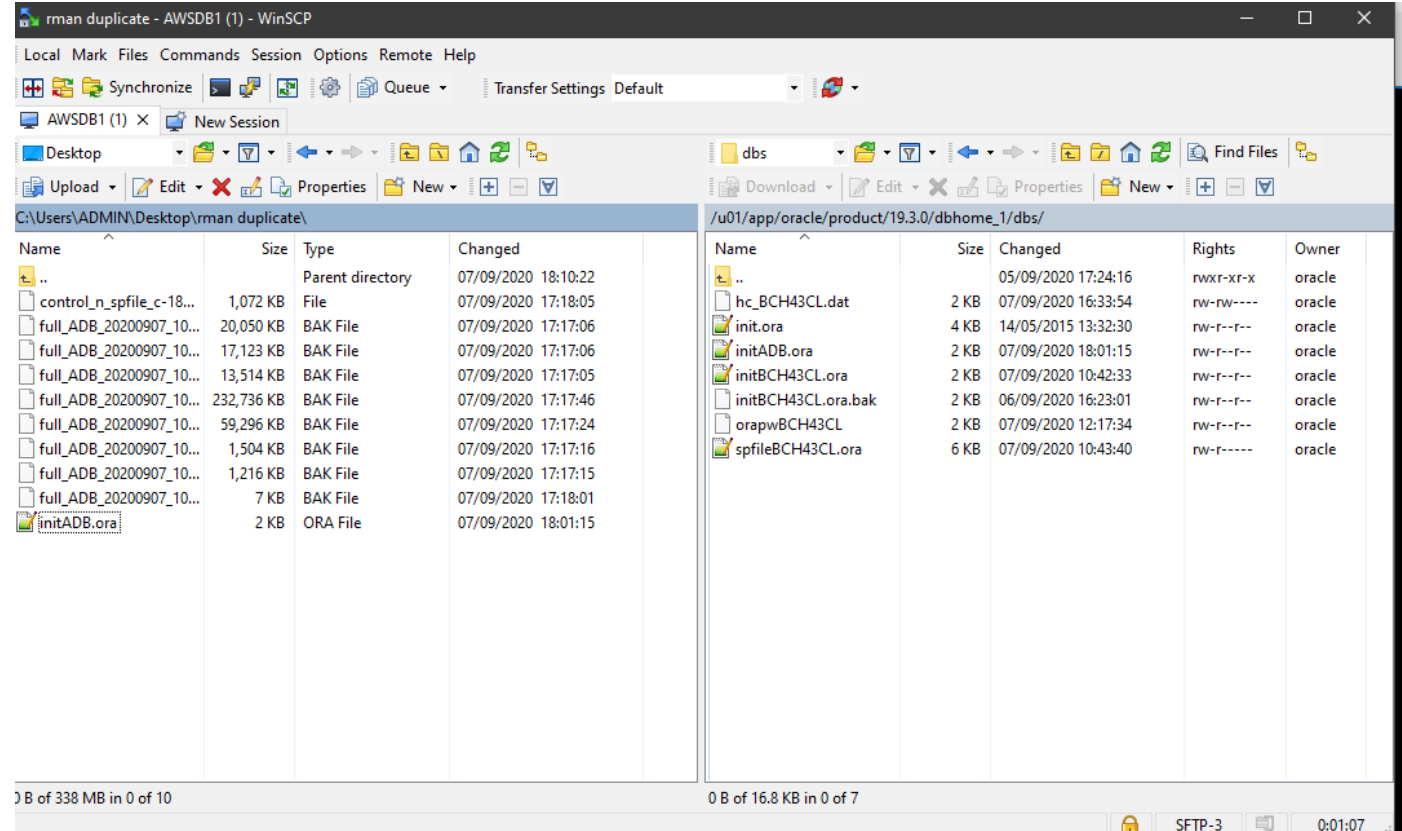
```
ip-172-31-23-178.us-east-2.compute.internal: (ADBCLONE)
$ ls -ltrh
total 339M
-rw-r--r-- 1 oracle oinstall 14M Sep 7 08:17 full_ADB_20200907_1050481024_03v9q4c0_1_1.bak
-rw-r--r-- 1 oracle oinstall 17M Sep 7 08:17 full_ADB_20200907_1050481024_02v9q4c0_1_1.bak
-rw-r--r-- 1 oracle oinstall 20M Sep 7 08:17 full_ADB_20200907_1050481023_01v9q4bv_1_1.bak
-rw-r--r-- 1 oracle oinstall 1.2M Sep 7 08:17 full_ADB_20200907_1050481034_07v9q4ca_1_1.bak
-rw-r--r-- 1 oracle oinstall 1.5M Sep 7 08:17 full_ADB_20200907_1050481033_06v9q4c9_1_1.bak
-rw-r--r-- 1 oracle oinstall 58M Sep 7 08:17 full_ADB_20200907_1050481033_05v9q4c9_1_1.bak
-rw-r--r-- 1 oracle oinstall 228M Sep 7 08:17 full_ADB_20200907_1050481033_04v9q4c9_1_1.bak
-rw-r--r-- 1 oracle oinstall 6.5K Sep 7 08:18 full_ADB_20200907_1050481081_08v9q4dp_1_1.bak
-rw-r--r-- 1 oracle oinstall 1.1M Sep 7 08:18 control_n_spfile_c-1857766239-20200907-00
ip-172-31-23-178.us-east-2.compute.internal: (ADBCLONE)
$
```

9

Send init.ora from source to

. oraenv --> ADB

	destination	<pre> cd \$ORACLE_HOME/dbs sqlplus / as sysdba create pfile from spfile; </pre>  <pre> exit; </pre>  <pre> winscp init.ora </pre>
--	-------------	--

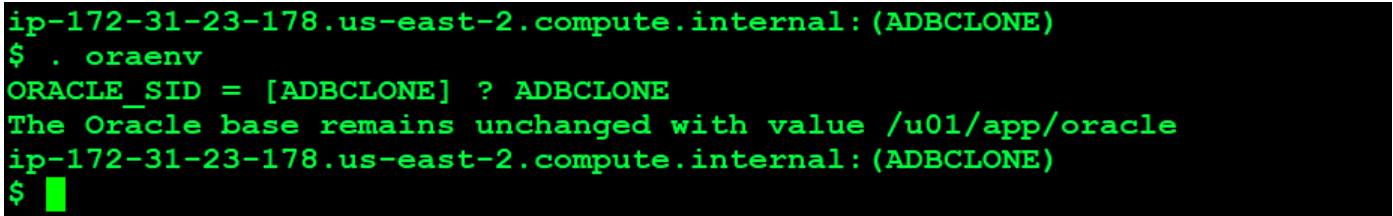
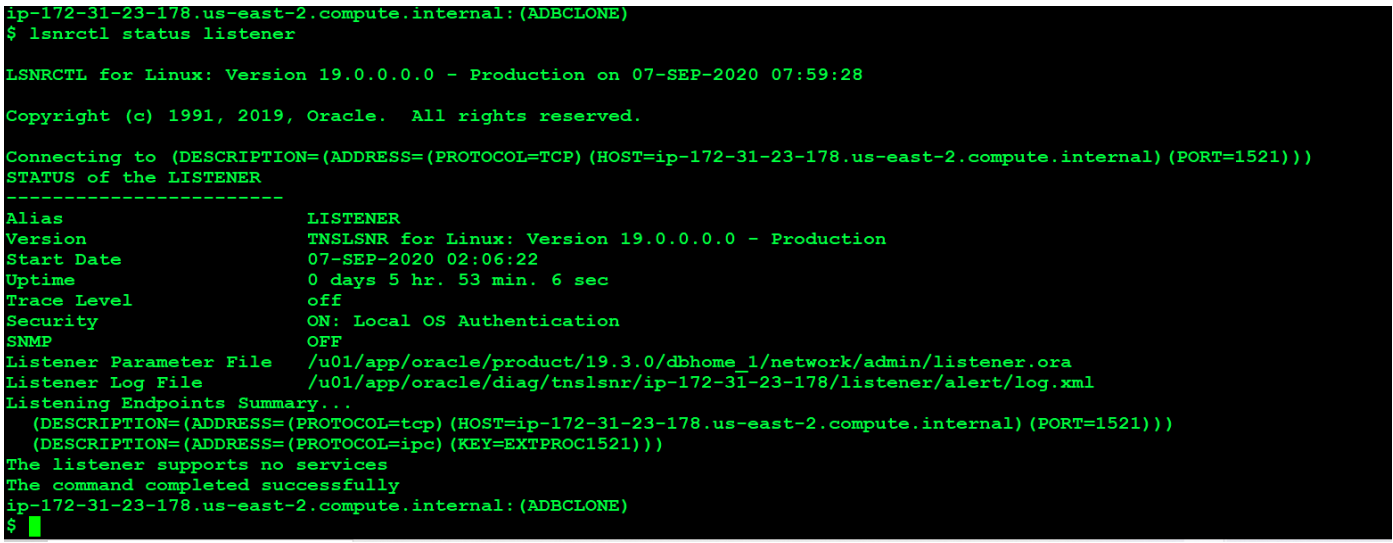


Verify init.ora are sent to destination server

```
$ ls -ltrh initADB.ora
-rw-r--r-- 1 oracle oinstall 1.2K Sep  7 09:01 initADB.ora
ip-172-31-23-178.us-east-2.compute.internal: (ADBCLONE)
$
```

On Destination Server:

No	Description	Command / Details / Screenshots
----	-------------	---------------------------------

11	Putty to Destination server	<code>ssh oracle@TN</code>
11	Add database entry in oratab	<pre>cat >> /etc/oratab << EOF ADBCClone:/u01/app/oracle/product/19.3.0/dbhome_1:N EOF</pre>  <pre>\$ cat >> /etc/oratab << EOF > ADBCClone:/u01/app/oracle/product/19.3.0/dbhome_1:N > EOF</pre>
12	Set oracle environment	<pre>. oraenv → ADBCClone</pre>  <pre>ip-172-31-23-178.us-east-2.compute.internal: (ADBCClone) \$. oraenv ORACLE_SID = [ADBCClone] ? ADBCClone The Oracle base remains unchanged with value /u01/app/oracle ip-172-31-23-178.us-east-2.compute.internal: (ADBCClone) \$</pre>
13	Verify listener is up	<pre>lsnrctl status listener</pre> --If not up, start the listener <pre>lsnrctl start listener lsnrctl status listener</pre>  <pre>ip-172-31-23-178.us-east-2.compute.internal: (ADBCClone) \$ lsnrctl status listener LSNRCTL for Linux: Version 19.0.0.0.0 - Production on 07-SEP-2020 07:59:28 Copyright (c) 1991, 2019, Oracle. All rights reserved. Connecting to (DESCRIPTION=(ADDRESS=(PROTOCOL=TCP) (HOST=ip-172-31-23-178.us-east-2.compute.internal) (PORT=1521))) STATUS of the LISTENER ----- Alias LISTENER Version TNSLSNR for Linux: Version 19.0.0.0.0 - Production Start Date 07-SEP-2020 02:06:22 Uptime 0 days 5 hr. 53 min. 6 sec Trace Level off Security ON: Local OS Authentication SNMP OFF Listener Parameter File /u01/app/oracle/product/19.3.0/dbhome_1/network/admin/listener.ora Listener Log File /u01/app/oracle/diag/tnslsnr/ip-172-31-23-178/listener/alert/log.xml Listening Endpoints Summary... (DESCRIPTION=(ADDRESS=(PROTOCOL=tcp) (HOST=ip-172-31-23-178.us-east-2.compute.internal) (PORT=1521))) (DESCRIPTION=(ADDRESS=(PROTOCOL=ipc) (KEY=EXTPROC1521))) The listener supports no services The command completed successfully ip-172-31-23-178.us-east-2.compute.internal: (ADBCClone) \$</pre>

14	Make changes in init.ora	<pre>ip-172-31-23-178.us-east-2.compute.internal: (ADBCLONE) \$ mv initADB.ora initADBCLONE.ora ip-172-31-23-178.us-east-2.compute.internal: (ADBCLONE)</pre> <pre>cd \$ORACLE_HOME/dbs vi init\$ORACLE_SID.ora : %s/ADB/ADBCLONE/g</pre> Note: Above will make all the changes from ADB to ADBCLONE in the initialization parameter file. <pre>\$ cat initADBCLONE.ora ADBCLONE.__data_transfer_cache_size=0 ADBCLONE.__db_cache_size=700448768 ADBCLONE.__inmemory_ext_roarea=0 ADBCLONE.__inmemory_ext_rwarea=0 ADBCLONE.__java_pool_size=0 ADBCLONE.__large_pool_size=20971520 ADBCLONE.__oracle_base='/u01/app/oracle'#ORACLE_BASE set from environment ADBCLONE.__pga_aggregate_target=536870912 ADBCLONE.__sga_target=1073741824 ADBCLONE.__shared_io_pool_size=50331648 ADBCLONE.__shared_pool_size=285212672 ADBCLONE.__streams_pool_size=0 ADBCLONE.__unified_pga_pool_size=0 *.audit_file_dest='/u01/app/oracle/admin/ADBCLONE/adump' *.audit_trail='db' *.compatible='19.0.0' *.control_files='/u02/oradata/ADBCLONE/control01.ctl','/u03/oradata/ADBCLONE/control02.ctl','/u04/oradata/ADBCLONE/control03.ctl','/u05/fast_recovery_area/ADBCLONE/control04.ctl' *.db_block_size=8192 *.db_name='ADBCLONE' *.db_recovery_file_dest='/u05/fast_recovery_area' *.db_recovery_file_dest_size=8192m *.diagnostic_dest='/u01/app/oracle' *.dispatchers='(PROTOCOL=TCP) (SERVICE=ADBCLONEXDB)' *.log_archive_dest_l='LOCATION=/u99/ADBCLONE/Archive' *.log_archive_format='Arch_%t_%s_%r.arc' *.nls_language='AMERICAN' *.nls_territory='AMERICA' *.open_cursors=300 *.pga_aggregate_target=512m *.processes=640 *.remote_login_passwordfile='EXCLUSIVE' *.sga_target=1024m *.undo_tablespace='UNDOTBS1'</pre>
15	Add covert parameters to convert datafile and redo log location	<pre>cat >> init\$ORACLE_SID.ora << EOF *.DB_FILE_NAME_CONVERT=('/u14/oradata/ADB','/u14/oradata/ADBCLONE') *.LOG_FILE_NAME_CONVERT=('/u15/oradata/ADB','/u15/oradata/ADBCLONE','/u16/oradata/ADB','/u16/oradata/ADBCLONE','/u17/oradata/ADB','/u17/oradata/ADBCLONE') EOF</pre>

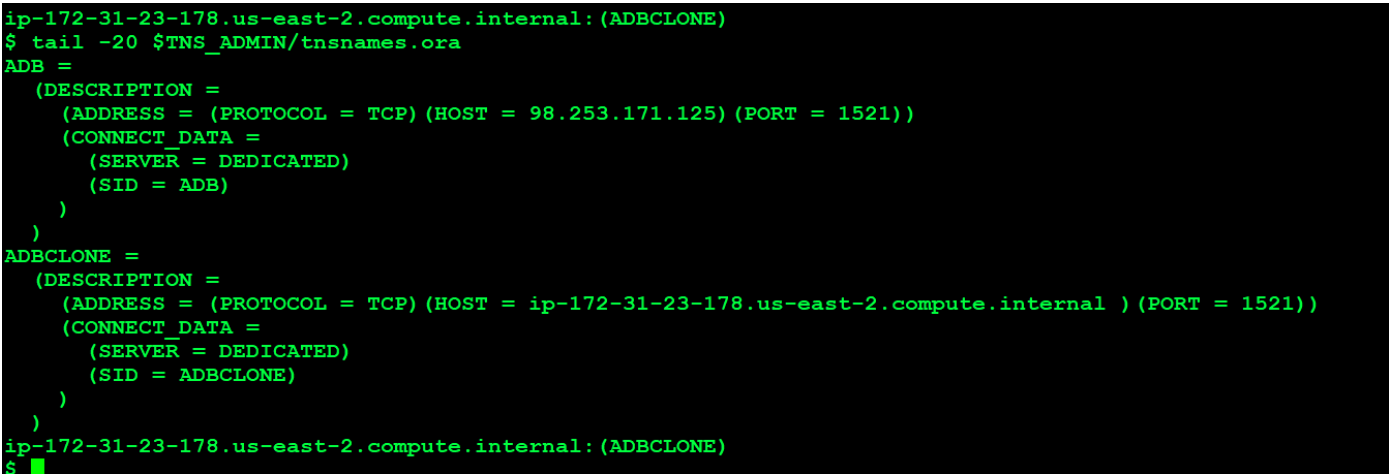
		<pre>ip-172-31-23-178.us-east-2.compute.internal: (ADBCLONE) \$ cat >> init\$ORACLE_SID.ora << EOF > *.DB_FILE_NAME_CONVERT=(' /u14/oradata/ADB', '/u14/oradata/ADBCLONE') > *.LOG_FILE_NAME_CONVERT=(' /u15/oradata/ADB', '/u15/oradata/ADBCLONE', '/u16/oradata/ADB', '/u16/oradata/ADBCLONE', '/u17/oradata/ADB', '/u17/oradata/ADBCLONE') > EOF ip-172-31-23-178.us-east-2.compute.internal: (ADBCLONE)</pre>
16	Verify the file again to be sure all is okay/	<pre>cat \$ORACLE_HOME/dbs/init\$ORACLE_SID.ora</pre> <pre>\$ cat \$ORACLE_HOME/dbs/init\$ORACLE_SID.ora ADBCLONE._data_transfer_cache_size=0 ADBCLONE._db_cache_size=700448768 ADBCLONE._inmemory_ext_roarea=0 ADBCLONE._inmemory_ext_rwarea=0 ADBCLONE._java_pool_size=0 ADBCLONE._large_pool_size=20971520 ADBCLONE._oracle_base='/u01/app/oracle'#ORACLE_BASE set from environment ADBCLONE._pga_aggregate_target=536870912 ADBCLONE._sga_target=1073741824 ADBCLONE._shared_io_pool_size=50331648 ADBCLONE._shared_pool_size=285212672 ADBCLONE._streams_pool_size=0 ADBCLONE._unified_pga_pool_size=0 *.audit_file_dest='/u01/app/oracle/admin/ADBCLONE/adump' *.audit_trail='db' *.compatible='19.0.0' *.control_files='/u02/oradata/ADBCLONE/control01.ctl','/u03/oradata/ADBCLONE/control02.ctl','/u04/oradata/ADBCLONE/control03.ctl','/u05/fast_recovery_area/ADBCLONE/control04.ctl' *.db_block_size=8192 *.db_name='ADBCLONE' *.db_recovery_file_dest='/u05/fast_recovery_area' *.db_recovery_file_dest_size=8192m *.diagnostic_dest='/u01/app/oracle' *.dispatchers='(PROTOCOL=TCP) (SERVICE=ADBCLONEXDB)' *.log_archive_dest_1='LOCATION=/u99/ADBCLONE/Archive' *.log_archive_format='Arch_%t_%s_%r.arc' *.nls_language='AMERICAN' *.nls_territory='AMERICA' *.open_cursors=300 *.pga_aggregate_target=512m *.processes=640 *.remote_login_passwordfile='EXCLUSIVE' *.sga_target=1024m *.undo_tablespace='UNDOTBS1' *.DB_FILE_NAME_CONVERT=(' /u14/oradata/ADB', '/u14/oradata/ADBCLONE') *.LOG_FILE_NAME_CONVERT=(' /u15/oradata/ADB', '/u15/oradata/ADBCLONE', '/u16/oradata/ADB', '/u16/oradata/ADBCLONE', '/u17/oradata/ADB', '/u17/oradata/ADBCLONE') ip-172-31-23-178.us-east-2.compute.internal: (ADBCLONE)</pre>
17	Create spfile from pfile	<pre>sqlplus / as sysdba create spfile from pfile</pre>

		<pre> ip-172-31-23-178.us-east-2.compute.internal: (ADBCLONE) \$ sqlplus / as sysdba SQL*Plus: Release 19.0.0.0.0 - Production on Mon Sep 7 09:22:16 2020 Version 19.3.0.0.0 Copyright (c) 1982, 2019, Oracle. All rights reserved. Connected to an idle instance. SQL> create spfile from pfile; File created. SQL> █ </pre>
18	Create all database directories for ADBCLONE.	<pre> mkdir -p /u14/oradata/ADBCLONE mkdir -p /u15/oradata/ADBCLONE mkdir -p /u16/oradata/ADBCLONE mkdir -p /u17/oradata/ADBCLONE mkdir -p /u02/oradata/ADBCLONE mkdir -p /u03/oradata/ADBCLONE mkdir -p /u04/oradata/ADBCLONE mkdir -p /u05/flash_recovery_area/ADBCLONE mkdir -p /u05/fast_recovery_area/ADBCLONE/ mkdir -p /u01/app/oracle/admin/ADBCLONE/adump mkdir -p /u01/app/oracle/admin/ADBCLONE/bdump mkdir -p /u01/app/oracle/admin/ADBCLONE/cdump mkdir -p /u01/app/oracle/admin/ADBCLONE/udump mkdir -p /u99/ADBCLONE/Backup mkdir -p /u98/ADBCLONE/Archive </pre>

```

ip-172-31-23-178.us-east-2.compute.internal: (ADBCLONE)
$ mkdir -p /u14/oradata/ADBCLONE
ip-172-31-23-178.us-east-2.compute.internal: (ADBCLONE)
$ mkdir -p /u15/oradata/ADBCLONE
ip-172-31-23-178.us-east-2.compute.internal: (ADBCLONE)
$ mkdir -p /u16/oradata/ADBCLONE
ip-172-31-23-178.us-east-2.compute.internal: (ADBCLONE)
$ mkdir -p /u17/oradata/ADBCLONE
ip-172-31-23-178.us-east-2.compute.internal: (ADBCLONE)
$ mkdir -p /u02/oradata/ADBCLONE
ip-172-31-23-178.us-east-2.compute.internal: (ADBCLONE)
$ mkdir -p /u03/oradata/ADBCLONE
ip-172-31-23-178.us-east-2.compute.internal: (ADBCLONE)
$ mkdir -p /u04/oradata/ADBCLONE
ip-172-31-23-178.us-east-2.compute.internal: (ADBCLONE)
$ mkdir -p /u05/flash_recovery_area/ADBCLONE
ip-172-31-23-178.us-east-2.compute.internal: (ADBCLONE)
$ mkdir -p /u05/fast_recovery_area/ADBCLONE/
ip-172-31-23-178.us-east-2.compute.internal: (ADBCLONE)
$ mkdir -p /u01/app/oracle/admin/ADBCLONE/adump
ip-172-31-23-178.us-east-2.compute.internal: (ADBCLONE)
$ mkdir -p /u01/app/oracle/admin/ADBCLONE/bdump
ip-172-31-23-178.us-east-2.compute.internal: (ADBCLONE)
$ mkdir -p /u01/app/oracle/admin/ADBCLONE/cdump
ip-172-31-23-178.us-east-2.compute.internal: (ADBCLONE)
$ mkdir -p /u01/app/oracle/admin/ADBCLONE/udump
ip-172-31-23-178.us-east-2.compute.internal: (ADBCLONE)
$ mkdir -p /u99/ADBCLONE/Backup
ip-172-31-23-178.us-east-2.compute.internal: (ADBCLONE)
$ mkdir -p /u98/ADBCLONE/Archive
ip-172-31-23-178.us-east-2.compute.internal: (ADBCLONE)
$ █

```

19		<pre> cat >> \$TNS_ADMIN/tnsnames.ora << EOF ADB = (DESCRIPTION = (ADDRESS = (PROTOCOL = TCP)(HOST = ██████████)(PORT = 1521)) (CONNECT_DATA = (SERVER = DEDICATED) (SID = ADB))) ADBCLONE = (DESCRIPTION = (ADDRESS = (PROTOCOL = TCP)(HOST = ip-172-31-23-178.us-east-2.compute.internal)(PORT = 1521)) (CONNECT_DATA = (SERVER = DEDICATED) (SID = ADBCLONE))) EOF </pre>
20	Verify tnsnames.ora file updated	<pre> tail -20 \$TNS_ADMIN/tnsnames.ora </pre>  The terminal screenshot shows the output of the 'tail -20 \$TNS_ADMIN/tnsnames.ora' command. It displays the configuration for two database connections: ADB and ADBCLONE. ADB is configured with a host of 98.253.171.125, and ADBCLONE is configured with a host of ip-172-31-23-178.us-east-2.compute.internal. Both are using port 1521 and a dedicated server. <pre> ip-172-31-23-178.us-east-2.compute.internal: (ADBCLONE) \$ tail -20 \$TNS_ADMIN/tnsnames.ora ADB = (DESCRIPTION = (ADDRESS = (PROTOCOL = TCP) (HOST = 98.253.171.125) (PORT = 1521)) (CONNECT_DATA = (SERVER = DEDICATED) (SID = ADB))) ADBCLONE = (DESCRIPTION = (ADDRESS = (PROTOCOL = TCP) (HOST = ip-172-31-23-178.us-east-2.compute.internal) (PORT = 1521)) (CONNECT_DATA = (SERVER = DEDICATED) (SID = ADBCLONE))) ip-172-31-23-178.us-east-2.compute.internal: (ADBCLONE) \$ █ </pre>
21	Verify tnsping is working	<pre> tnsping ADB </pre>

		<pre> ip-172-31-23-178.us-east-2.compute.internal: (ADBCLONE) \$ tnsping ADB TNS Ping Utility for Linux: Version 19.0.0.0.0 - Production on 07-SEP-2020 07:56:23 Copyright (c) 1997, 2019, Oracle. All rights reserved. Used parameter files: Used TNSNAMES adapter to resolve the alias Attempting to contact (DESCRIPTION = (ADDRESS = (PROTOCOL = TCP) (HOST = 98.253.171.125) (PORT = 1521)) (CONNECT_DATA = (SERVER = DEDICATED) (SID = ADB))) OK (40 msec) ip-172-31-23-178.us-east-2.compute.internal: (ADBCLONE) \$ </pre> tnsping ADBCLONE <pre> ip-172-31-23-178.us-east-2.compute.internal: (ADBCLONE) \$ tnsping ADBCLONE TNS Ping Utility for Linux: Version 19.0.0.0.0 - Production on 07-SEP-2020 07:57:51 Copyright (c) 1997, 2019, Oracle. All rights reserved. Used parameter files: Used TNSNAMES adapter to resolve the alias Attempting to contact (DESCRIPTION = (ADDRESS = (PROTOCOL = TCP) (HOST = ip-172-31-23-178.us-east-2.compute.internal) (PORT = 1521)) (CONNECT_DATA = (SERVER = DEDICATED) (SID = ADBCLONE))) OK (10 msec) ip-172-31-23-178.us-east-2.compute.internal: (ADBCLONE) \$ </pre>
25	Startup database in nomount mode	<pre> sqlplus / as sysdba startup nomount; \$ sq SQL*Plus: Release 19.0.0.0.0 - Production on Mon Sep 7 09:27:40 2020 Version 19.3.0.0.0 Copyright (c) 1982, 2019, Oracle. All rights reserved. Connected to an idle instance. SQL> startup nomount; ORACLE instance started. Total System Global Area 1073737800 bytes Fixed Size 8904776 bytes Variable Size 306184192 bytes Database Buffers 750780416 bytes Redo Buffers 7868416 bytes SQL> </pre>

		<code>exit;</code>
26	Connect to rman and start duplicating database	<pre> rman connect target sys/abc123@ADB connect auxiliary / RUN { SET UNTIL SEQUENCE 61 THREAD 1; DUPLICATE TARGET DATABASE TO "ADBCLONE"; Exit; \$ rman Recovery Manager: Release 19.0.0.0.0 - Production on Mon Sep 7 15:50:22 2020 Version 19.3.0.0.0 Copyright (c) 1982, 2019, Oracle and/or its affiliates. All rights reserved. RMAN> connect target sys/abc123@ADB connected to target database: ADB (DBID=1857766239) RMAN> connect auxiliary / connected to auxiliary database: ADBCLONE (not mounted) RMAN> RUN { SET UNTIL SEQUENCE 61 THREAD 1; DUPLICATE TARGET DATABASE TO "ADBCLONE"; }2> 3> 4> 5> </pre>

```
ip-172-31-23-178.us-east-2.compute.internal: (ADBCLONE)
$ rman

Recovery Manager: Release 19.0.0.0.0 - Production on Mon Sep 7 09:32:25 2020
Version 19.3.0.0.0

Copyright (c) 1982, 2019, Oracle and/or its affiliates. All rights reserved.

RMAN> connect target sys/abc123@ADB

connected to target database: ADB (DBID=1857766239)

RMAN> connect auxiliary /

connected to auxiliary database: ADBCLONE (not mounted)

RMAN> █
```

--For our records, when I cloned ADB to ADBCLONE, following is what I saw:

```

RMAN> RUN
{
  SET UNTIL SEQUENCE 61 THREAD 1;
  DUPLICATE TARGET DATABASE TO "ADBCLONE";
}2> 3> 4> 5>

executing command: SET until clause

Starting Duplicate Db at 07-SEP-20
using target database control file instead of recovery catalog
allocated channel: ORA_AUX_DISK_1
channel ORA_AUX_DISK_1: SID=410 device type=DISK
allocated channel: ORA_AUX_DISK_2
channel ORA_AUX_DISK_2: SID=900 device type=DISK
allocated channel: ORA_AUX_DISK_3
channel ORA_AUX_DISK_3: SID=411 device type=DISK
allocated channel: ORA_AUX_DISK_4
channel ORA_AUX_DISK_4: SID=901 device type=DISK

contents of Memory Script:
{
  set until scn 2056346;
  sql clone "alter system set db_name =
  'ADB' comment=
  'Modified by RMAN duplicate' scope=spfile";
  sql clone "alter system set db_unique_name =
  'ADBCLONE' comment=
  'Modified by RMAN duplicate' scope=spfile";
  shutdown clone immediate;
  startup clone force nomount
  restore clone primary controlfile;
  alter clone database mount;
}

```

```

executing Memory Script

executing command: SET until clause

sql statement: alter system set db_name = 'ADB' comment= 'Modified by RMAN duplicate' scope=spfile
sql statement: alter system set db_unique_name = 'ADBCLONE' comment= 'Modified by RMAN duplicate' scope=spfile

Oracle instance shut down

Oracle instance started

```

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```

Total System Global Area      1073737800 bytes

```

```

Fixed Size                      8904776 bytes
Variable Size                  293601280 bytes
Database Buffers              763363328 bytes
Redo Buffers                   7868416 bytes

```

```

Starting restore at 07-SEP-20
allocated channel: ORA_AUX_DISK_1
channel ORA_AUX_DISK_1: SID=410 device type=DISK
allocated channel: ORA_AUX_DISK_2
channel ORA_AUX_DISK_2: SID=900 device type=DISK
allocated channel: ORA_AUX_DISK_3
channel ORA_AUX_DISK_3: SID=411 device type=DISK
allocated channel: ORA_AUX_DISK_4
channel ORA_AUX_DISK_4: SID=901 device type=DISK

channel ORA_AUX_DISK_1: starting datafile backup set restore
channel ORA_AUX_DISK_1: restoring control file

```

```

channel ORA_AUX_DISK_1: reading from backup piece /u99/temp/Backup/ADB/control_n_spfile_c-1857766239-20200907-00
channel ORA_AUX_DISK_1: piece handle=/u99/temp/Backup/ADB/control_n_spfile_c-1857766239-20200907-00 tag=TAG20200907T081803
channel ORA_AUX_DISK_1: restored backup piece 1
channel ORA_AUX_DISK_1: restore complete, elapsed time: 00:00:04
output file name=/u02/oradata/ADBCLONE/control01.ctl
output file name=/u03/oradata/ADBCLONE/control02.ctl
output file name=/u04/oradata/ADBCLONE/control03.ctl
output file name=/u05/fast_recovery_area/ADBCLONE/control04.ctl
Finished restore at 07-SEP-20

```

```

database mounted
Using previous duplicated file /u14/oradata/ADBCLONE/system01.dbf for datafile 1 with checkpoint SCN of 2037129
Using previous duplicated file /u14/oradata/ADBCLONE/sysaux01.dbf for datafile 3 with checkpoint SCN of 2037130
Using previous duplicated file /u14/oradata/ADBCLONE/undotbs01.dbf for datafile 4 with checkpoint SCN of 2037131
Using previous duplicated file /u14/oradata/ADBCLONE/users01.dbf for datafile 7 with checkpoint SCN of 2037132

```

contents of Memory Script:

```

{
  set until scn 2056346;
  set newname for datafile 1 to
"/u14/oradata/ADBCLONE/system01.dbf";
  set newname for datafile 3 to
"/u14/oradata/ADBCLONE/sysaux01.dbf";
  set newname for datafile 4 to
"/u14/oradata/ADBCLONE/undotbs01.dbf";
  set newname for datafile 7 to
"/u14/oradata/ADBCLONE/users01.dbf";
}

```

executing Memory Script

executing command: SET until clause

executing command: SET NEWNAME

executing command: SET NEWNAME

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```

/u14/oradata/ADBCLONE/undotbs01.dbf
}

```

executing Memory Script

cataloged datafile copy

datafile copy file name=/u14/oradata/ADBCLONE/sysaux01.dbf RECID=2 STAMP=1050508566

cataloged datafile copy

datafile copy file name=/u14/oradata/ADBCLONE/undotbs01.dbf RECID=3 STAMP=1050508567

cataloged datafile copy

datafile copy file name=/u14/oradata/ADBCLONE/users01.dbf RECID=4 STAMP=1050508567

cataloged datafile copy

datafile copy file name=/u14/oradata/ADBCLONE/system01.dbf RECID=1 STAMP=1050508566

datafile 1 switched to datafile copy

input datafile copy RECID=1 STAMP=1050508566 file name=/u14/oradata/ADBCLONE/system01.dbf

datafile 3 switched to datafile copy

input datafile copy RECID=2 STAMP=1050508566 file name=/u14/oradata/ADBCLONE/sysaux01.dbf

```
executing command: SET NEWNAME
```

```
executing command: SET NEWNAME
```

```
contents of Memory Script:
```

```
{
  catalog clone datafilecopy  "/u14/oradata/ADBCLONE/system01.dbf",
  "/u14/oradata/ADBCLONE/sysaux01.dbf",
  "/u14/oradata/ADBCLONE/undotbs01.dbf",
  "/u14/oradata/ADBCLONE/users01.dbf";
  switch clone datafile  1 to datafilecopy
  "/u14/oradata/ADBCLONE/system01.dbf";
  switch clone datafile  3 to datafilecopy
  "/u14/oradata/ADBCLONE/sysaux01.dbf";
  switch clone datafile  4 to datafilecopy
  "/u14/oradata/ADBCLONE/undotbs01.dbf";
  switch clone datafile  7 to datafilecopy
  "/u14/oradata/ADBCLONE/users01.dbf";
}
```

```
datafile 4 switched to datafile copy
```

```
input datafile copy RECID=3 STAMP=1050508567 file name=/u14/oradata/ADBCLONE/undotbs01.dbf
```

```
datafile 7 switched to datafile copy
```

```
input datafile copy RECID=4 STAMP=1050508567 file name=/u14/oradata/ADBCLONE/users01.dbf
```

```
contents of Memory Script:
```

```
{
  set until scn  2056346;
  recover
  clone database
  delete archivelog
  ;
}
```

```
executing Memory Script
```

```
executing command: SET until clause
```

```

Starting recover at 07-SEP-20
using channel ORA_AUX_DISK_1
using channel ORA_AUX_DISK_2
using channel ORA_AUX_DISK_3
using channel ORA_AUX_DISK_4

starting media recovery

channel ORA_AUX_DISK_1: starting archived log restore to default destination
channel ORA_AUX_DISK_1: restoring archived log
archived log thread=1 sequence=56
channel ORA_AUX_DISK_1: reading from backup piece /u99/temp/Backup/ADB/full_ADB_20200907_1050481081_08v9q4dp_1_1.bak
channel ORA_AUX_DISK_2: starting archived log restore to default destination
channel ORA_AUX_DISK_2: restoring archived log
archived log thread=1 sequence=57
channel ORA_AUX_DISK_2: reading from backup piece /u99/temp/Backup/ADB/full_ADB_20200907_1050506298_0bv9qt1q_1_1.bak
channel ORA_AUX_DISK_3: starting archived log restore to default destination
channel ORA_AUX_DISK_3: restoring archived log
archived log thread=1 sequence=58
channel ORA_AUX_DISK_3: reading from backup piece /u99/temp/Backup/ADB/full_ADB_20200907_1050506298_0cv9qt1q_1_1.bak
channel ORA_AUX_DISK_4: starting archived log restore to default destination
channel ORA_AUX_DISK_4: restoring archived log
archived log thread=1 sequence=59
channel ORA_AUX_DISK_4: reading from backup piece /u99/temp/Backup/ADB/full_ADB_20200907_1050506298_0dv9qt1q_1_1.bak
channel ORA_AUX_DISK_1: piece handle=/u99/temp/Backup/ADB/full_ADB_20200907_1050481081_08v9q4dp_1_1.bak tag=TAG20200907T081801
channel ORA_AUX_DISK_1: restored backup piece 1
channel ORA_AUX_DISK_1: restore complete, elapsed time: 00:00:01
archived log file name=/u99/ADBCLONE/ArchiveArch_1_56_1050474725.arc thread=1 sequence=56
channel clone default: deleting archived log(s)
archived log file name=/u99/ADBCLONE/ArchiveArch_1_56_1050474725.arc RECID=11 STAMP=1050508585
channel ORA_AUX_DISK_1: starting archived log restore to default destination
channel ORA_AUX_DISK_1: restoring archived log
archived log thread=1 sequence=60
channel ORA_AUX_DISK_1: reading from backup piece /u99/temp/Backup/ADB/full_ADB_20200907_1050506298_0av9qt1q_1_1.bak
channel ORA_AUX_DISK_2: piece handle=/u99/temp/Backup/ADB/full_ADB_20200907_1050506298_0bv9qt1q_1_1.bak tag=TAG20200907T151817
channel ORA_AUX_DISK_2: restored backup piece 1
channel ORA_AUX_DISK_2: restore complete, elapsed time: 00:00:04
archived log file name=/u99/ADBCLONE/ArchiveArch_1_57_1050474725.arc thread=1 sequence=57
channel clone default: deleting archived log(s)
archived log file name=/u99/ADBCLONE/ArchiveArch_1_57_1050474725.arc RECID=14 STAMP=1050508588
channel ORA_AUX_DISK_3: piece handle=/u99/temp/Backup/ADB/full_ADB_20200907_1050506298_0cv9qt1q_1_1.bak tag=TAG20200907T151817
channel ORA_AUX_DISK_3: restored backup piece 1
channel ORA_AUX_DISK_3: restore complete, elapsed time: 00:00:16
archived log file name=/u99/ADBCLONE/ArchiveArch_1_58_1050474725.arc thread=1 sequence=58
channel clone default: deleting archived log(s)
archived log file name=/u99/ADBCLONE/ArchiveArch_1_58_1050474725.arc RECID=13 STAMP=1050508588
channel ORA_AUX_DISK_4: piece handle=/u99/temp/Backup/ADB/full_ADB_20200907_1050506298_0dv9qt1q_1_1.bak tag=TAG20200907T151817
channel ORA_AUX_DISK_4: restored backup piece 1
channel ORA_AUX_DISK_4: restore complete, elapsed time: 00:00:25
archived log file name=/u99/ADBCLONE/ArchiveArch_1_59_1050474725.arc thread=1 sequence=59
channel clone default: deleting archived log(s)
archived log file name=/u99/ADBCLONE/ArchiveArch_1_59_1050474725.arc RECID=12 STAMP=1050508587
channel ORA_AUX_DISK_1: piece handle=/u99/temp/Backup/ADB/full_ADB_20200907_1050506298_0av9qt1q_1_1.bak tag=TAG20200907T151817
channel ORA_AUX_DISK_1: restored backup piece 1

```

```

channel ORA_AUX_DISK_4: restored backup piece 1
channel ORA_AUX_DISK_4: restore complete, elapsed time: 00:00:25
archived log file name=/u99/ADBCLONE/ArchiveArch_1_59_1050474725.arc thread=1 sequence=59
channel clone default: deleting archived log(s)
archived log file name=/u99/ADBCLONE/ArchiveArch_1_59_1050474725.arc RECID=12 STAMP=1050508587
channel ORA_AUX_DISK_1: piece handle=/u99/temp/Backup/ADB/full_ADB_20200907_1050506298_0av9qt1q_1_1.bak tag=TAG20200907T151817
channel ORA_AUX_DISK_1: restored backup piece 1
channel ORA_AUX_DISK_1: restore complete, elapsed time: 00:00:26
archived log file name=/u99/ADBCLONE/ArchiveArch_1_60_1050474725.arc thread=1 sequence=60
channel clone default: deleting archived log(s)
archived log file name=/u99/ADBCLONE/ArchiveArch_1_60_1050474725.arc RECID=15 STAMP=1050508594
media recovery complete, elapsed time: 00:00:09
Finished recover at 07-SEP-20
Oracle instance started

```

```
Total System Global Area      1073737800 bytes
```

```

Fixed Size                      8904776 bytes
Variable Size                  293601280 bytes
Database Buffers               763363328 bytes
Redo Buffers                   7868416 bytes

```

```
contents of Memory Script:
```

```
{
  sql clone "alter system set db_name =
```

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```
contents of Memory Script:
```

```
{
  sql clone "alter system set db_name =
  'ADBCLONE' comment=
  'Reset to original value by RMAN' scope=spfile";
  sql clone "alter system reset db_unique_name scope=spfile";
}
executing Memory Script

```

```
sql statement: alter system set db_name = 'ADBCLONE' comment= 'Reset to original value by RMAN' scope=spfile
```

```

sql statement: alter system reset db_unique_name scope=spfile
Oracle instance started

```

```
Total System Global Area      1073737800 bytes
```

```

Fixed Size                      8904776 bytes
Variable Size                  293601280 bytes
Database Buffers               763363328 bytes
Redo Buffers                   7868416 bytes

```

```
sql statement: CREATE CONTROLFILE REUSE SET DATABASE "ADBCLONE" RESETLOGS ARCHIVELOG
```

Activate Windows
Go to Settings to activate Windows

		<pre> MAXLOGFILES 16 MAXLOGMEMBERS 3 MAXDATAFILES 100 MAXINSTANCES 8 MAXLOGHISTORY 292 LOGFILE GROUP 1 ('/u16/oradata/ADBCLONE/redo01b.rdo', '/u15/oradata/ADBCLONE/redo01a.rdo', '/u17/oradata/ADBCLONE/redo01c.rdo') SIZE 20 GROUP 2 ('/u15/oradata/ADBCLONE/redo02a.rdo', '/u16/oradata/ADBCLONE/redo02b.rdo', '/u17/oradata/ADBCLONE/redo02c.rdo') SIZE 20 GROUP 3 ('/u16/oradata/ADBCLONE/redo03b.rdo', '/u15/oradata/ADBCLONE/redo03a.rdo', '/u17/oradata/ADBCLONE/redo03c.rdo') SIZE 20 DATAFILE '/u14/oradata/ADBCLONE/system01.dbf' CHARACTER SET AL32UTF8 Contents of Memory Script: { set newname for tempfile 1 to "/u14/oradata/ADBCLONE/temp01.dbf"; /u14/oradata/ADBCLONE/redo01b.rdo', switch clone datafile all; } executing Memory Script executing command: SET NEWNAME renamed tempfile 1 to /u14/oradata/ADBCLONE/temp01.dbf in control file cataloged datafile copy datafile copy file name=/u14/oradata/ADBCLONE/sysaux01.dbf RECID=1 STAMP=1050508862 cataloged datafile copy datafile copy file name=/u14/oradata/ADBCLONE/undotbs01.dbf RECID=2 STAMP=1050508862 cataloged datafile copy datafile copy file name=/u14/oradata/ADBCLONE/users01.dbf RECID=3 STAMP=1050508863 datafile 3 switched to datafile copy input datafile copy RECID=4 STAMP=1050508864 file name=/u14/oradata/ADBCLONE/sysaux01.dbf datafile 4 switched to datafile copy input datafile copy RECID=5 STAMP=1050508864 file name=/u14/oradata/ADBCLONE/undotbs01.dbf datafile 7 switched to datafile copy input datafile copy RECID=6 STAMP=1050508865 file name=/u14/oradata/ADBCLONE/users01.dbf Contents of Memory Script: { Alter clone database open resetlogs; } executing Memory Script database opened Finished Duplicate Db at 07-SEP-20 RMAN> █ </pre>
27	Verify database is up and running	<pre> . oraenv → ADBCLONE sqlplus / as sysdba Select name, db_unique_name from v\$database; Select instance_name, status from v\$instance; </pre>

```

ip-172-31-23-178.us-east-2.compute.internal: (ADBCLONE)
$ sq

SQL*Plus: Release 19.0.0.0.0 - Production on Mon Sep 7 16:22:29 2020
Version 19.3.0.0.0

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Connected to:
Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production
Version 19.3.0.0.0

SQL> Select name, db_unique_name from v$database;

NAME          DB_UNIQUE_NAME
-----
ADBCLONE      ADBCLONE

SQL> Select instance_name, status from v$instance;

INSTANCE_NAME    STATUS
-----
ADBCLONE         OPEN

SQL>

```

```

Set linesize 200
Set pagesize 200
col SOURCE_DATABASE format a71

```

```

select name||' - '||instance_name||'@'||host_name||' - '||DB_UNIQUE_NAME||' -
'||version||' - '||open_mode||' - '||to_char(startup_time,'DD-MON-YYYY
HH24:MI:SS') as source_database from v$database, v$instance;

```

```
SQL> /
```

```
SOURCE_DATABASE
```

```
-----  
ADB - ADB@Chi - ADB - 19.0.0.0.0 - READ WRITE - 07-SEP-2020 06:57:16
```

```
SQL> █
```

```
select name||' - '||instance_name||'@'||host_name||' - '||DB_UNIQUE_NAME||' -  
'||version||' - '||open_mode||' - '||to_char(startup_time,'DD-MON-YYYY  
HH24:MI:SS') as cloned_database from v$database, v$instance;
```

```
SQL> /
```

```
CLONED_DATABASE
```

```
-----  
ADBCLONE - ADBCLONE@ip-172-31-23-178.us-east-2.compute.internal - ADBCLONE - 19.0.0.0.0 - READ WRITE - 07-SEP-2020 15:59:26
```

by
Nasreen Fatima
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