Oracle 12c Upgrade on Windows Operating System
Installation and Configuration Guide
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<td>1.0</td>
<td>2015-09-02</td>
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1 General Information

⚠️ Caution

There may be slight differences depending on your OS and DB version.

ℹ️ Note

This guide shows you the steps to Upgrade a 11.2.0.3 Oracle Database to 12.1.0.2 on Windows.
OS Platform: Windows Server 2008 R2 SP1
DB Release: 11.2.0.3

Since an Oracle Database Upgrade is a very complicated and critical action, the upgrade has to be tested first in a test and development environment!
2  SAP Note reference

- 2086029  Oracle 12c: Additional Info / Corrections to Oracle 12c (12.1.0.2) Upgrade
- 1915315  Database Upgrade Scripts for 12.1.0.2
- 1915323  OS User Concept for Oracle Database 12c Release 1
- 1915302  Database Software 12.1.0.2 Installation on Windows
- 1915314  Removing Oracle Homes (Uninstalling Oracle Database Software)
- 1915313  Current Patch Set for Oracle Database 12c Release 1 (12.1)
- 1915316  Database: Patches for 12.1.0.2
- 12741    Current Version of BR*Tools
- 998004   Update the Oracle Instant Client on Windows
- 19466    Downloading SAP kernel patches
3 12c Software Installation

3.1 Create Oracle Installation User (Oracle)

C:\Users\Administrator>net user /add Oracle Welcome1 /fullname:"Oracle Installation User" /comment:"Administrator for Oracle Software Installation and Patching"

The command completed successfully.

C:\Users\Administrator>net localgroup administrators Oracle /add

The command completed successfully.

3.2 Start Software Installation with sapserver.ps1

Logon as 'Oracle' user and start Windows PowerShell as Administrator
Specify the name of the database, <DBSID>, for which you install this Oracle home. The database name (<DBSID>) consists of 3 alphanumeric characters, starting with a letter (A..Z).

Enter <DBSID>: tin
Your answer: tin

Oracle Home Directory

Please specify the drive letter of the local disk drive on which you want to install the Oracle Database software.

Enter Drive Letter [C:] or [D]: E:
Your answer: E:

Oracle Home User Type

Which type of Oracle Home User do you want to use for the new Oracle home?
(1) Standard Windows User Account
(2) Windows built-in account (LocalSystem)

Specify Oracle Home User type [1] or [2]: 1

Oracle Home User Name

Specify the name of the Oracle home user for the new Oracle home.
SAP naming standard:
- Windows Local User: oraclehome01, oraclehome02, ...
- Windows Domain User: <DOMAIN>\oraclehome01, <DOMAIN>\oraclehome02, ...

Enter name of Oracle Home User [oraclehome01]: oraclehome01
Your answer: oraclehome01

Running Oracle Universal Installer in Silent or Non-Silent Mode

Do you want to run OUI in silent mode? [y/n] [n]: n

Installation Settings

Before you start the Oracle Universal Installer, you can check below that the installation parameters are correct.

Installation Settings:

Installation User = win2008\Oracle
Oracle Release = 12.1.0.2
Oracle Stage = D:\install\oracle\11.1.0.7\<DBSID\database\SAP\...stage\products.xml
Oracle Installer = D:\install\oracle\11.1.0.7\<DBSID\database\SAP\...setup.exe
Silent mode = False
DB SID = tin
ORACLE_HOME = D:\oracle\oraclehome01
ORACLE_HOME = D:\oracle\oraclehome02
ORACLE_HOME = D:\oracle\oraclehome01\BIN\12102
ORACLE_HOME_NAME = BIN\12102
Oracle Home User = oraclehome01

OUI Command line : 
D:\install\oracle\11.1.0.7\<DBSID\database\SAP\...setup.exe
oracle.installation=INSTALL_DB only
SELECTED LANGUAGES=en
DB SID=tin
ORACLE_HOME=D:\oracle\oraclehome01\BIN\12102
ORACLE_HOME_NAME=BIN\12102
ORACLE_USER=D:\oracle\oraclehome01
oracle.install.1d.UseDefaultAccount=false
oracle.install.1d.UseDefaultPassword=false
oracle.install.1d.DSOptionSelection=true
SECURITY_UPDATES_BIA=NO
SECURITY_UPDATES_BIA=true
oracle.install.1d.UseDefaultAccount=false
oracle.install.1d.UseDefaultPassword=false
oracle.install.1d.DSOptionSelection=true
SKIP_UPDATES=true
-Duser.country=US
-Duser.language=en

Starting Oracle Universal Installer

Do you want to start the installation? [y/n] [y]: y
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12c Software Installation
Oracle 12c Upgrade on Windows Operating System

12c Software Installation

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Oracle recommends that you specify a standard Windows User Account (not an Administrator account) to install and configure the Oracle Home for enhanced security. This account is used for running the Windows Services for the Oracle Home. Do not log in using this account to perform administrative tasks.

- **Use Existing Windows User**
  - **Username:**
  - **Password:**

- **Create New Windows User**
  - **Username:** oraclehome91
  - **Password:** *********
  - **Confirm Password:** *********

- **Use Windows Built-In Account**
Oracle Database 12c Release 1 Installer - Step 10 of 11

Install Product

Progress
89%
Saving Inventory

Status
- Oracle Database Installation: In Progress
- Prepare: Succeeded
- Copy Files: Succeeded
- Setup: In Progress
- Setup Oracle Base: Pending

Oracle Database 12c Release 1 Installer - Step 11 of 11

Finish

The installation of Oracle Database was successful.

Note:
Your database configuration files have been installed in D:/oracledb/oraclehome01 while other components selected for installation have been installed in D:/oracledb/oraclehome01/VRN/12102. Be cautious not to accidentally delete these configuration files.
3.3 Remove new entries from PATH variable

Verify PATH variable afterwards
3.4 Create Oracle_home_user (oraclehome01)

C:\Users\Administrator>net user /add oraclehome01 Test1234
The command completed successfully.

3.5 Add Oracle_home_user to local groups

C:\Users\Administrator>net localgroup ORA_RIN_DBA oraclehome01 /add
The command completed successfully.

C:\Users\Administrator>net localgroup ORA_RIN_OPER oraclehome01 /add
The command completed successfully.
4 Install required Patches

4.1 Install latest Bundle

Perform this action as 'Oracle' user.

C:\Windows\system32>set ORACLE_HOME=D:\oracle\oraclehome01\RIN\12102

C:\Windows\system32>set ORACLE_HOME
ORACLE_HOME=D:\oracle\oraclehome01\RIN\12102

C:\Windows\system32>set PATH=%ORACLE_HOME%\perl\bin;%PATH%

C:\Windows\system32>cd D:\install\oracle\20559422

D:\install\oracle\20559422>D:\oracle\oraclehome01\RIN\12102\OPatch\opatch apply
Oracle Interim Patch Installer version 12.1.0.1.3
Copyright (c) 2015, Oracle Corporation. All rights reserved.

Oracle Home : D:\oracle\oraclehome01\RIN\12102
Central Inventory : C:\Program Files\Oracle\Inventory from : n/a
OPatch version : 12.1.0.1.3
OUI version : 12.1.0.2.0
Log file location :
D:\oracle\oraclehome01\RIN\12102\cfgtoollogs\opatch\20559422_Sep_02_2015_11_29_48\apply2015-09-02_11-29-48AM_1.log

Applying interim patch '20559422' to OH 'D:\oracle\oraclehome01\RIN\12102'
Verifying environment and performing prerequisite checks...
Patch 20559422: Optional component(s) missing : [ oracle.usm, 12.1.0.2.0 ] , [ oracle.usm, 12.1.0.2.0 ]
All checks passed.

Please shutdown Oracle instances running out of this ORACLE_HOME on the local system.
(Oracle Home = 'D:\oracle\oraclehome01\RIN\12102')

Is the local system ready for patching? [y|n]
Verifying the update...
Patch 20559422 successfully applied
Log file location:
D:\oracle\oraclehome01\RIN\12102\cfgtoollogs\opatch\20559422\Sep_02_2015_11_29_48\apply2015-09-02_11-29-48AM_1.log

OPatch succeeded.
4.2 Install Patch that contains Upgrade scripts

Patch P9584028GEN12102P_1-20012296.ZIP has to be downloaded.

D:\install\oracle\upgradescripts\9584028> D:\oracle\oraclehome01\RIN\12102\OPatch\opatch apply

Oracle Interim Patch Installer version 12.1.0.1.3
Copyright (c) 2015, Oracle Corporation. All rights reserved.

Oracle Home : D:\oracle\oraclehome01\RIN\12102
Central Inventory : C:\Program Files\Oracle\Inventory from : n/a
OPatch version : 12.1.0.1.3
OUI version : 12.1.0.2.0
Log file location :
D:\oracle\oraclehome01\RIN\12102\cfgtoollogs\opatch\9584028_Sep_02_2015_11_59_14\apply2015-09-02_11-59-14AM_1.log

Applying interim patch '9584028' to OH 'D:\oracle\oraclehome01\RIN\12102'
Verifying environment and performing prerequisite checks...
All checks passed.
Backing up files...

Patching component oracle.rdbms, 12.1.0.2.0...

Verifying the update...
Patch 9584028 successfully applied
Log file location:
D:\oracle\oraclehome01\RIN\12102\cfgtoollogs\opatch\9584028_Sep_02_2015_11_59_14\apply2015-09-02_11-59-14AM_1.log

OPatch succeeded.
5 Preparing the Upgrade

5.1 Running the Pre-Upgrade scripts

Start Oracle- and listener services and startup the database as <sid>adm

D:\oracle\oraclehome01\RIN\12102\sap\ora_upgrade\pre_upgrade >sqlplus

SQL*Plus: Release 11.2.0.3.0 Production on Wed Sep 2 11:39:18 2015

Copyright (c) 1982, 2011, Oracle. All rights reserved.

Enter user-name: /as sysdba
Connected to an idle instance.

SQL> startup
ORA-32004: obsolete or deprecated parameter(s) specified for RDBMS instance
ORACLE instance started.

Total System Global Area  676470784 bytes
Fixed Size 2258192 bytes
Variable Size 348130032 bytes
Database Buffers 322961408 bytes
Redo Buffers 3121152 bytes
Database mounted.
Database opened.
SQL> @pre_upgrade_tasks.sql

SQL> @pre_upgrade_checks_sap.sql

SQL> @pre_upgrade_checks_ora.sql
5.2 Copy BR*Tools Profile

D:\oracle\oraclehome01\RIN\12102\sap\ora_upgrade\pre_upgrade>copy
C:\oracle\RIN\11203\database\initRIN.sap  D:\oracle\oraclehome01\RIN\12102\database\initRIN.sap

1 file(s) copied.

5.3 Copy SQLNET files

D:\oracle\oraclehome01\RIN\12102\sap\ora_upgrade\pre_upgrade>copy
C:\oracle\RIN\11203\NETWORK\ADMIN\* D:\oracle\oraclehome01\RIN\12102\NETWORK\ADMIN
C:\oracle\RIN\11203\NETWORK\ADMIN\listener.1.ora
C:\oracle\RIN\11203\NETWORK\ADMIN\listener.ora
C:\oracle\RIN\11203\NETWORK\ADMIN\sqlnet.1.ora
C:\oracle\RIN\11203\NETWORK\ADMIN\sqlnet.ora
C:\oracle\RIN\11203\NETWORK\ADMIN\tnsnames.1.ora
C:\oracle\RIN\11203\NETWORK\ADMIN\tnsnames.ora

6 file(s) copied.
6 Database Upgrade

This upgrade was performed with <sid>adm user!

6.1 Rename env.variables

Rename ORACLE_HOME to ORACLE_HOME_before_upgrade, and TNS_ADMIN to TNS_ADMIN_before_upgrade.

C:\Users\rinadm>set ORACLE_HOME
ORACLE_HOME_before_upgrade=C:\oracle\RIN\11203

C:\Users\rinadm>set TNS_ADMIN
TNS_ADMIN_before_upgrade=\win2k8sap\sapmnt\RIN\SYS\profile\oracle

6.2 Start the Upgrade
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Database Upgrade

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Database Upgrade

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Database Upgrade
7 Post-Upgrade Steps

7.1 Changing Environment Variables

Change the env. variables of sidadm user!

- Remove all parts of PATH in system variables that refers to ORACLE_HOME!
- Check that user variables of PATH points to new_oracle_home

```
C:\Users\rinadm> set path
Path=C:\Windows\system32;C:\Windows;C:\Windows\System32\WBem;c:\Windows\System32\WindowsPowerShell\v1.0;\win2k8sap\sapmnt\RIN\SYS\exe;uc\NTAMD64;D:\oracle\oraclehome01\RIN\12102;D:\oracle\oraclehome01\RIN\12102\BIN;D:\oracle\oraclehome01\RIN\12102\OPatch;D:\oracle\oraclehome01\RIN\12102\perl\bin
```

- Rename ORACLE_HOME_before_upgrade to ORACLE_HOME and point to the correct 12 ORACLE_HOME

```
C:\Users\rinadm> set ORACLE_HOME
ORACLE_HOME=D:\oracle\oraclehome01\RIN\12102
```

- Rename TNS_ADMIN_before_upgrade back to TNS_ADMIN

```
C:\Users\rinadm> set TNS_ADMIN=
TNS_ADMIN=\win2k8sap\sapmnt\RIN\SYS\profile\oracle
```

- Validate and adapt ORACLE_HOME variables for the other SAP users if required

7.2 Perform Post-Upgrade Checks

```
D:\oracle\oraclehome01\RIN\12102\sap\ora_upgrade\post_upgrade>sqlplus "/as sysdba"
```

SQL*Plus: Release 12.1.0.2.0 Production on Sat Sep 5 14:12:07 2015

Copyright (c) 1982, 2014, Oracle. All rights reserved.

Connected to:
Oracle Database 12c Enterprise Edition Release 12.1.0.2.0 - 64bit Production
With the Partitioning, OLAP, Advanced Analytics and Real Application Testing options

```
SQL> @\%\dbms\admin\utlu121s.sql
```

```
SQL> @post_upgrade_checks.sql
```
7.3 Changing the Registry Value of Oracle Autostart

D:\oracle\oraclehome01\RIN\12102\sap\ora_upgrade\post_upgrade>D:\oracle\oraclehome01\RIN\12102\bin\oradim -edit -sid RIN -startmode manual

7.4 Checking the Startup Type of the Oracle Services

- Start the Distributed Transaction Coordinator service
- Start the Oracle Services plus the Listener if not yet started
- Make sure that the startup type of service OracleService<DBSID> is automatic
- Make sure that the startup type of service Oracle<ORACLE_HOME_NAME>TNSListener is automatic

7.5 Performing Post-Upgrade Tasks

7.5.1 Gather Oracle Dictionary- and System Statistics

brconnect -u / -c -f stats -t system_stats
brconnect -u / -c -f stats -t oradict_stats
7.5.2 Finish Bundle Patch installation by executing the post steps

D:\oracle>cd %ORACLE_HOME%
D:\oracle\oraclehome01\RIN\12102>cd OPatch

D:\oracle\oraclehome01\RIN\12102\OPatch>datapatch -verbose
SQL Patching tool version 12.2.0.0.0 on Sat Sep  5 16:58:11 2015
Copyright (c) 2014, Oracle. All rights reserved.

Connecting to database...OK

catcon: ALL catcon-related output will be written to
C:\Users\rinadm\AppData\Local\Temp/sqlpatch_catcon__catcon_3812.lst

catcon: See C:\Users\rinadm\AppData\Local\Temp/sqlpatch_catcon__*.log files for output generated by scripts

catcon: See C:\Users\rinadm\AppData\Local\Temp/sqlpatch_catcon__*.lst files for spool files, if any

Bootstrapping registry and package to current versions...done
Determining current state...done

Current state of SQL patches:
Bundle series PSU:
   ID 3 in the binary registry and not installed in the SQL registry

Adding patches to installation queue and performing prereq checks...
Installation queue:
   Nothing to roll back

The following patches will be applied:
   20559422 (WINDOWS DB BUNDLE PATCH 12.1.0.2.3(64bit):20559422)

Installing patches...
Patch installation complete. Total patches installed: 1

Validating logfiles...

**Patch 20559422 apply: SUCCESS**

logfile:
D:\oracle\oraclehome01\cfgtoollogs\sqlpatch\20559422\18706241/20559422_apply_RIN_2015Sep05_17_06_09.log (no errors)

SQL Patching tool complete on Sat Sep  5 17:06:44 2015
7.5.3 Update the Oracle database statistics with BRCCONNECT

```
brconnect -u / -c -f stats -t all -f collect -p 4
```

7.6 Updating the Oracle Instant Client

Follow instructions of note 998004 Update the Oracle Instant Client on Windows

7.7 Updating BR*Tools

Download and extract latest BR*Tools according to note 12741 and run sapdba_role.sql.

7.8 Updating SAP Executables

Follow instructions of note 19466.
7.9  Remove Old Oracle Software

- Stop the service Distributed Transaction Coordinator
- Stop the services of the old Oracle home
- run the command: `<old_Oracle_home>\deinstall\deinstall.bat -checkonly`

7.9.1  TEST RUN

```
C:\oracle\RIN\11203\deinstall>deinstall.bat -checkonly
Checking for required files and bootstrapping ...
Please wait ...
  1 file(s) copied.
  1 file(s) copied.
Location of logs C:\Program Files\Oracle\Inventory\logs\

############################ ORACLE DEINSTALL & DECONFIG TOOL START ############################

############################### CHECK OPERATION START ####################################

## [START] Install check configuration ##

Checking for existence of the Oracle home location C:\oracle\RIN\11203
Oracle Home type selected for deinstall is: Oracle Single Instance Database
Oracle Base selected for deinstall is: C:\oracle
Checking for existence of central inventory location C:\Program Files\Oracle\Inventory

## [END] Install check configuration ##

## [START] Checking Windows and .NET products configuration ##

The following Windows and .NET products will be deconfigured from the Oracle home :
asp.net,ode.net,odp.net,ntoledb,oramts

## [END] Checking Windows and .NET products configuration ##
```
Network Configuration check config START

Network de-configuration trace file location: C:\Program Files\Oracle\Inventory\logs\netdc_check2015-09-06_10-29-49-AM.log

Network Configuration check config END

Database Check Configuration START

Database de-configuration trace file location: C:\Program Files\Oracle\Inventory\logs\databasedc_check2015-09-06_10-29-52-AM.log

Use comma as separator when specifying list of values as input

Specify the list of database names that are configured in this Oracle home []:

Database Check Configuration END

Enterprise Manager Configuration Assistant START

EMCA de-configuration trace file location: C:\Program Files\Oracle\Inventory\logs\emcadc_check2015-09-06_10-34-23-AM.log

Enterprise Manager Configuration Assistant END

Oracle Configuration Manager check START

OCM check log file location : C:\Program Files\Oracle\Inventory\logs\ocm_check6889.log

Oracle Configuration Manager check END

############################################### CHECK OPERATION END ###############################################

############################################### CHECK OPERATION SUMMARY ###############################################

Oracle Home selected for deinstall is: C:\oracle\RIN\11203
Inventory Location where the Oracle home registered is: C:\Program Files\Oracle\Inventory
The following Windows and .NET products will be deconfigured from the Oracle home:
asp.net,ode.net,odp.net,ntoledb,oramts
No Enterprise Manager configuration to be updated for any database(s)
No Enterprise Manager ASM targets to update
No Enterprise Manager listener targets to migrate
Checking the config status for CCR
Oracle Home exists with CCR directory, but CCR is not configured
CCR check is finished
A log of this session will be written to: 'C:\Program Files\Oracle\Inventory\logs\deinstall_deconfig2015-09-06_10-29-45-AM.out'
Any error messages from this session will be written to: 'C:\Program Files\Oracle\Inventory\logs\deinstall_deconfig2015-09-06_10-29-45-AM.err'

############### ORACLE DEINSTALL & DECONFIG TOOL END ###############

1 dir(s) moved.
1 dir(s) moved.
7.9.2 REAL RUN

C:\oracle\R11203\deinstall>deinstall.bat
Checking for required files and bootstrapping ...
Please wait ...

1 file(s) copied.
1 file(s) copied.
Location of logs C:\Program Files\Oracle\Inventory\logs\

############################ ORACLE DEINSTALL & DECONFIG TOOL START############################

############################ CHECK OPERATION START #########################################

### [START] Install check configuration ###

Checking for existence of the Oracle home location C:\oracle\R11203
Oracle Home type selected for deinstall is: Oracle Single Instance Database
Oracle Base selected for deinstall is: C:\oracle
Checking for existence of central inventory location C:\Program Files\Oracle\Inventory

### [END] Install check configuration ###

### [START] Checking Windows and .NET products configuration ###

The following Windows and .NET products will be deconfigured from the Oracle home:
asp.net,ode.net,odp.net,ntoledb,oramts

### [END] Checking Windows and .NET products configuration ###

Network Configuration check config START

Network de-configuration trace file location: C:\Program Files\Oracle\Inventory\logs\netdc_check2015-09-06_10-35-36-AM.log

Network Configuration check config END

Database Check Configuration START
Database de-configuration trace file location: C:\Program Files\Oracle\Inventory\logs\databasec_check2015-09-06_10-35-36-35-AM.log

Use comma as separator when specifying list of values as input

Specify the list of database names that are configured in this Oracle home []:
Database Check Configuration END

Enterprise Manager Configuration Assistant START

EMCA de-configuration trace file location: C:\Program Files\Oracle\Inventory\logs\emcadc_check2015-09-06_10-36-35-36-AM.log

Enterprise Manager Configuration Assistant END

Oracle Configuration Manager check START
OCM check log file location: C:\Program Files\Oracle\Inventory\logs\ocm_check8608.log
Oracle Configuration Manager check END

############################### CHECK OPERATION END ###############################

############################### CHECK OPERATION SUMMARY ###############################
Oracle Home selected for deinstall is: C:\oracle\RIN\11203
Inventory Location where the Oracle home registered is: C:\Program Files\Oracle\Inventory
The following Windows and .NET products will be deconfigured from the Oracle home:
asp.net,ode.net,odp.net,ntoledb,oramts
No Enterprise Manager configuration to be updated for any database(s)
No Enterprise Manager ASM targets to update
No Enterprise Manager listener targets to migrate
Checking the config status for CCR
Oracle Home exists with CCR directory, but CCR is not configured
CCR check is finished
Do you want to continue (y - yes, n - no)? [n]: y
A log of this session will be written to: 'C:\Program Files\Oracle\Inventory\logs\deinstall_deconfig2015-09-06_10-35-31-AM.out'
Any error messages from this session will be written to: 'C:\Program Files\Oracle\Inventory\logs\deinstall_deconfig2015-09-06_10-35-31-AM.err'

############################### CLEAN OPERATION START ###############################

Enterprise Manager Configuration Assistant START
EMCA de-configuration trace file location: C:\Program Files\Oracle\Inventory\logs\emcadc_clean2015-09-06_10-36-35-AM.log

Updating Enterprise Manager ASM targets (if any)
Updating Enterprise Manager listener targets (if any)
Enterprise Manager Configuration Assistant END

Database de-configuration trace file location: C:\Program Files\Oracle\Inventory\logs\databasedc_clean2015-09-06_10-37-20-AM.log

Network Configuration clean config START

Network de-configuration trace file location: C:\Program Files\Oracle\Inventory\logs\netdc_clean2015-09-06_10-37-20-AM.log

De-configuring Listener configuration file...
Listener configuration file de-configured successfully.

De-configuring Naming Methods configuration file...
Naming Methods configuration file de-configured successfully.

De-configuring Local Net Service Names configuration file...
Local Net Service Names configuration file de-configured successfully.

De-configuring backup files...
Backup files de-configured successfully.

The network configuration has been cleaned up successfully.

Network Configuration clean config END

Oracle Configuration Manager clean START
OCM clean log file location : C:\Program Files\Oracle\Inventory\logs\ocm_clean8608.log
Oracle Configuration Manager clean END

## [START] Removing Windows and .NET products configuration ##

## [END] Removing Windows and .NET products configuration ##

Setting the force flag to false
Setting the force flag to cleanup the Oracle Base
Oracle Universal Installer clean START
Removing service 'OracleRIN11203ClrAgent' on the local node: Done

Removing service 'OracleRIN11203TNSListener' on the local node: Done

Detach Oracle home 'C:\oracle\RIN\11203' from the central inventory on the local node: Done

Delete directory 'C:\oracle\RIN\11203' on the local node: Done

Delete directory 'C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Oracle -RIN11203' on the local node: Done

Delete directory 'C:\oracle' on the local node: Done

Oracle Universal Installer cleanup was successful.

Oracle Universal Installer clean END

## [START] Oracle install clean ##

## [END] Oracle install clean ##

######################################################################## CLEAN OPERATION END ###################################################################

######################################################################## CLEAN OPERATION SUMMARY ###################################################################

Cleaning the config for CCR
As CCR is not configured, so skipping the cleaning of CCR configuration
CCR clean is finished
Removed asp.net configuration
Removed ode.net configuration
Removed odp.net configuration
Removed ntoledb configuration
Removed oramts configuration
Successfully removed service 'OracleRIN11203ClrAgent' on the local node.
Successfully removed service 'OracleRIN11203TNSListener' on the local node.
Successfully detached Oracle home 'C:\oracle\RIN\11203' from the central inventory on the local node.
Successfully deleted directory 'C:\oracle\RIN\11203' on the local node.
Successfully deleted directory 'C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Oracle - RIN11203' on the local node.
Successfully deleted directory 'C:\oracle' on the local node.
Oracle Universal Installer cleanup was successful.

Oracle deinstall tool successfully cleaned up temporary directories.

####################################################################

########################################################## ORACLE DEINSTALL & DECONFIG TOOL END ##################################################

1 dir(s) moved.
1 dir(s) moved.
The Upgrade with all of its steps has been successfully finished!