

Oracle Agent installation Steps

Purpose: - Oracle agent installation for OEM hosted on ExaCC

OMS Server :-

usdfw21db83vcn1.mrshmc.com
usdfw21db83vcn2.mrshmc.com
ato_oem_01.mrshmc.com
USASH22DB06VCN1.mrshmc.com
USASH22DB06VCN2.mrshmc.com

Activity Steps

(1). Login on target server and create required directories...

```
mkdir -p /opt/oracle/product/oem_agent
mkdir -p /opt/oracle/product/oem_agent/agent_inst
chmod -R 775 /opt/oracle/product/oem_agent
chmod -R 775 /opt/oracle/product/oem_agent/agent_inst
```

(2). Copy agent s/w from OMS server (usdfw21db83vcn1) to target server using sftp

Login on: - usdfw21db83vcn1
S/w file name: - 13.5.0.0.0_AgentCore_226.zip
S/w located at: - /var/oracle/export/Agent_sw

```
$ ls -ltr
total 769704
-rw-r--r-- 1 oracle dba 788174095 Sep 17 01:34 13.5.0.0.0_AgentCore_226.zip
$ pwd
/var/oracle/export/Agent_sw
$ hostname
usdfw21db83vcn1

oracle@usdfw21db83vcn1:NOSID>
oracle@usdfw21db83vcn1:NOSID>cd /var/oracle/export/Agent_sw
oracle@usdfw21db83vcn1:NOSID>ls -ltr
total 769704
-rw-r--r-- 1 oracle dba 788174095 Sep 17 01:34 13.5.0.0.0_AgentCore_226.zip
oracle@usdfw21db83vcn1:NOSID>
oracle@usdfw21db83vcn1:NOSID>pwd
/var/oracle/export/Agent_sw
oracle@usdfw21db83vcn1:NOSID>
oracle@usdfw21db83vcn1:NOSID>sftp u1258146@ausyd26db02vcn1
```

```
sftp>
sftp> cd /tmp
sftp> put 13.5.0.0.0_AgentCore_226.zip
Uploading 13.5.0.0.0_AgentCore_226.zip to /tmp/13.5.0.0.0_AgentCore_226.zip
13.5.0.0.0_AgentCore_226.zip
sftp> exit
oracle@usdfw21db83vcn1:NOSID>
```

(3). Unzip agent on target server

```
[oracle@ausy26db02vcn1 /tmp/oem_agent>] ls -ltr
total 769704
-rw-r--r-- 1 oracle oinstall 788174095 Sep 20 22:09 13.5.0.0.0_AgentCore_226.zip
[oracle@ausy26db02vcn1 /tmp/oem_agent>]
[oracle@ausy26db02vcn1 /tmp/oem_agent>]
[oracle@ausy26db02vcn1 /tmp/oem_agent>] unzip 13.5.0.0.0_AgentCore_226.zip
Archive: 13.5.0.0.0_AgentCore_226.zip
  inflating: agentcore.bin
  inflating: agent.rsp
  inflating: agentDeploy.sh
  inflating: agentimage.properties
  inflating: unzip
  inflating: zip
    creating: plugins/
  inflating: plugins/oracle.sysman.emas.discovery.plugin-13.5.1.0.0.farb
  inflating: plugins/oracle.sysman.si.discovery.plugin-13.5.1.0.0.farb
  inflating: plugins/oracle.sysman.db.discovery.plugin-13.5.1.0.0.farb
  inflating: plugins/oracle.sysman.xa.discovery.plugin-13.5.1.0.0.farb
  inflating: plugins/oracle.sysman.oh.discovery.plugin-13.5.0.0.0.farb
  inflating: plugins/oracle.sysman.oh.agent.plugin-13.5.0.0.0.farb
  inflating: plugins.txt
    creating: oneoffs/
  inflating: oneoffs/agentDeploy.sh
  inflating: oneoffs/applypatchesonapplicablehome.pl
  inflating: oneoffs/patch_common.pl
[oracle@ausy26db02vcn1 /tmp/oem_agent>]
```

(4). Stop existing Agent

```
[oracle@usdfw21db67vcn1 product]$ /opt/oracle/product/middleware/agent_13.4.0.0.0/bin/

Oracle Enterprise Manager Cloud Control 13c Release 4 emctl stop agent
Copyright (c) 1996, 2020 Oracle Corporation. All rights reserved.
Stopping agent ... stopped.
```

(5). Install/Deploy oracle agent on target server

```
./agentDeploy.sh AGENT_BASE_DIR=/opt/oracle/product/oem_agent -force -ignorePrereqs -
invPtrLoc /etc/orainst.loc AGENT_PORT=3872 EM_UPLOAD_PORT=4903
OMS_HOST=ato_oem_01.mrshmc.com ORACLE_HOSTNAME=usdfw21db67vcn1.mrshmc.com
AGENT_INSTANCE_HOME=/opt/oracle/product/oem_agent/agent_inst
AGENT_REGISTRATION_PASSWORD=YourDBAatCanada22 SCRATCHPATH=/tmp
```

Note: - Change ORACLE_HOSTNAME value and enter your respective target server name

*Logs:-

The status is 0

Validated the oms host and port :- ato_oem_01.mrshmc.com----4903

Getting Inet Addresses for host usdfw21db67vcn1.mrshmc.com

** Agent Port Check completed successfully.**

Validated the agent port :- ----3872

shared agent value is :false

chain install is :false

Agent Configuration completed successfully

The following configuration scripts need to be executed as the "root" user. Root script to run :

/opt/oracle/product/oem_agent/agent_13.5.0.0.0/root.sh

/opt/oracle/product/oem_agent/agent_13.5.0.0.0/cfgtoollogs/agentDeploy/agentDeploy_2022-09-14_08-11-42-AM.log

Waiting for agent targets to get promoted...

Successfully Promoted agent and its related targets to Management Agent

*/

How to run root.sh

For non Exacc server use root.sh sudo privilege (to check sudo -l)

Once agent s/w deployment done successfully, next step is to add target

Add target in OEM

OEM URL - https://ato_oem_01.mrshmc.com:7803/em/faces/core-templ-library

DBSNMP Password: - M0n9to4_m6_3xaCC_2022

Steps

(1). Login on target server and reset DBSNMP password on each database. Password is given above.

(2). Start adding Target as below

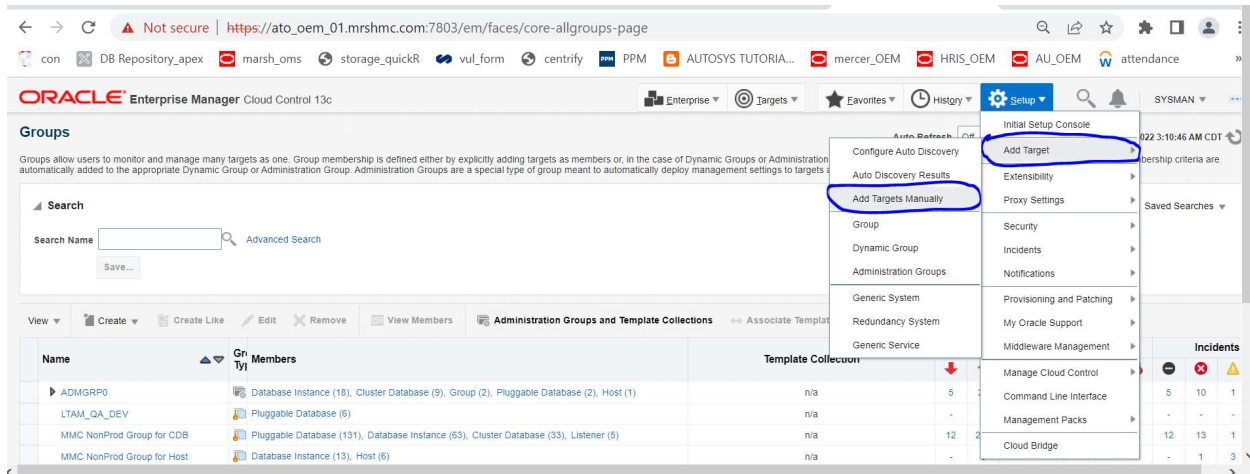
- ❖ Discover Cluster /HAS
- ❖ Add Database/ASM/Listener

(2.1) Discover Cluster/HAS :-

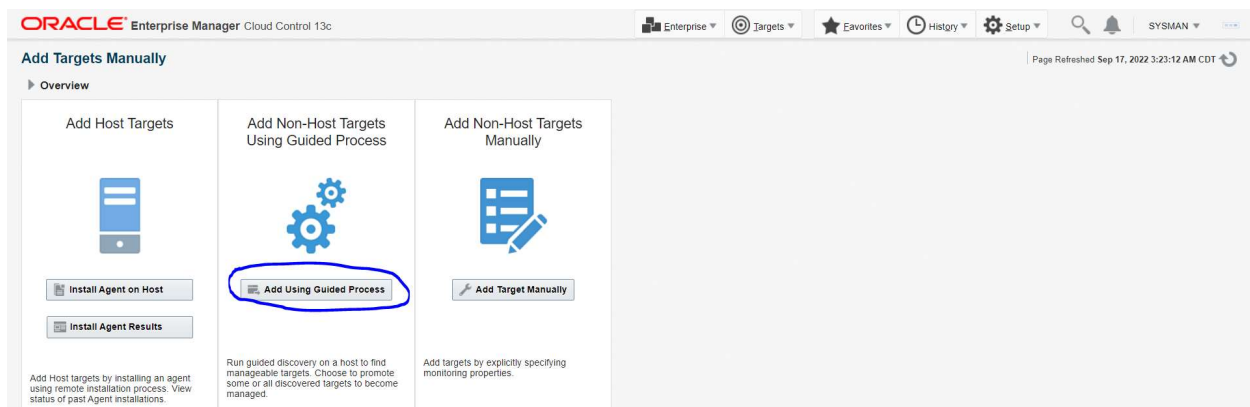
Please login to OEM and follow as per snapshot

Click on Setup → Add Target → Add Targets Manually

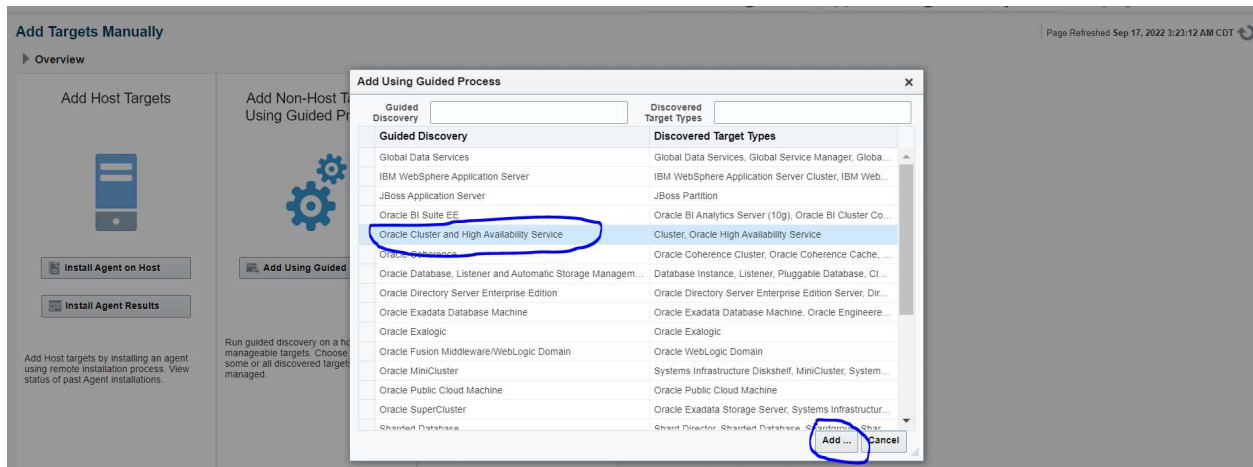
Snapshot is given below...



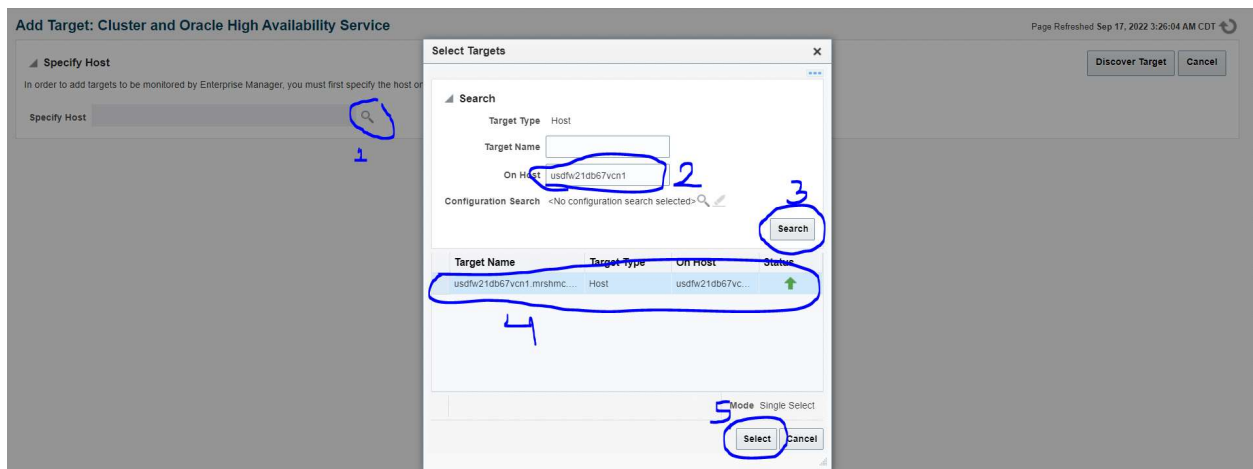
Select “Add Using Guided Process”



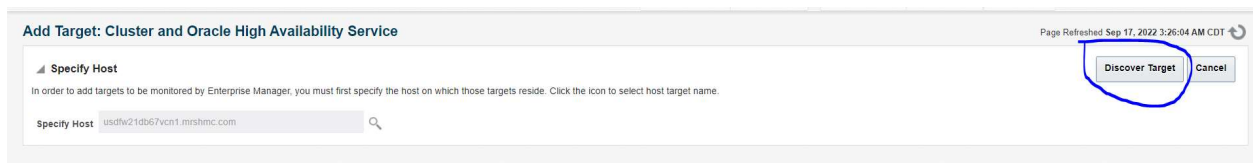
Select option mentioned below



- Click on "Search"
- On Host "mention host name"
- Click on Search
- Select host shown
- Finally click on "Select"



Click on "Discover Target"



Click on "Save" or "Update"

Add Target: Cluster and Oracle High Availability Service Page Refreshed Sep 17, 2022 3:26:04 AM CDT

Specify Host
In order to add targets to be monitored by Enterprise Manager, you must first specify the host on which those targets reside. Click the icon to select host target name.

Specify Host

Cluster Target Properties Update
The cluster target will be added with the following properties. SCAN Name, SCAN Port and ONS Port properties are applicable to Clusterware versions 11.2 and higher.

Target Name
Oracle Home
SCAN Name
SCAN Port
ONS Port

Cluster Host and High Availability Services Targets
The following host targets along with the corresponding Oracle High Availability Service targets will be added as members of this cluster.

Host Target Name	Oracle High Availability Service Target Name
usdfw21db67vcn1.mrshmc.com	ha1_usdfw21db67vcn1.mrshmc.com
usdfw21db67vcn2.mrshmc.com	ha1_usdfw21db67vcn2.mrshmc.com

Assign Hosts into Groups

Select Host → Target Setup → Properties

usdfw21db67vcn1.mrshmc.com Auto Refresh Off

Host Edit Host

Open the home page in a new window.

- Monitoring
- Diagnostics
- Control
- Job Activity
- Information Publisher Reports
- Members
- Administration
- Net Services Administration
- Log File Alerts
- Remote File Editor
- Execute Host Command
- Privilege Delegation Setting
- Related Targets
- Configuration
- Compliance
- Target Setup
- Target Sitemap
- Target Information

Monitoring Configuration

Administrator Access

Remove Target...

Add to Group...

Properties

Oracle Enterprise Linux Server release 7.9 (Maipo)

Open Incidents

0 Fatal

4 Critical

0 Warning

CPU Utilization 46%

Memory Utilization 26%

Used 47.1GB Total 178.9GB

Swap Utilization 7%

Used 1.1GB Total 16GB

Host Name usdfw21db67vcn1.mrshmc.com

Distributor Version Red Hat 4.8.5-44

Kernel Release 3.10.0-1160.76.1.el7.x86_64

Primary IP Address 192.168.29.240

CPU 6 Cores / 12 Threads; 64-bit (Intel Xeon Processor)

Run Level 3

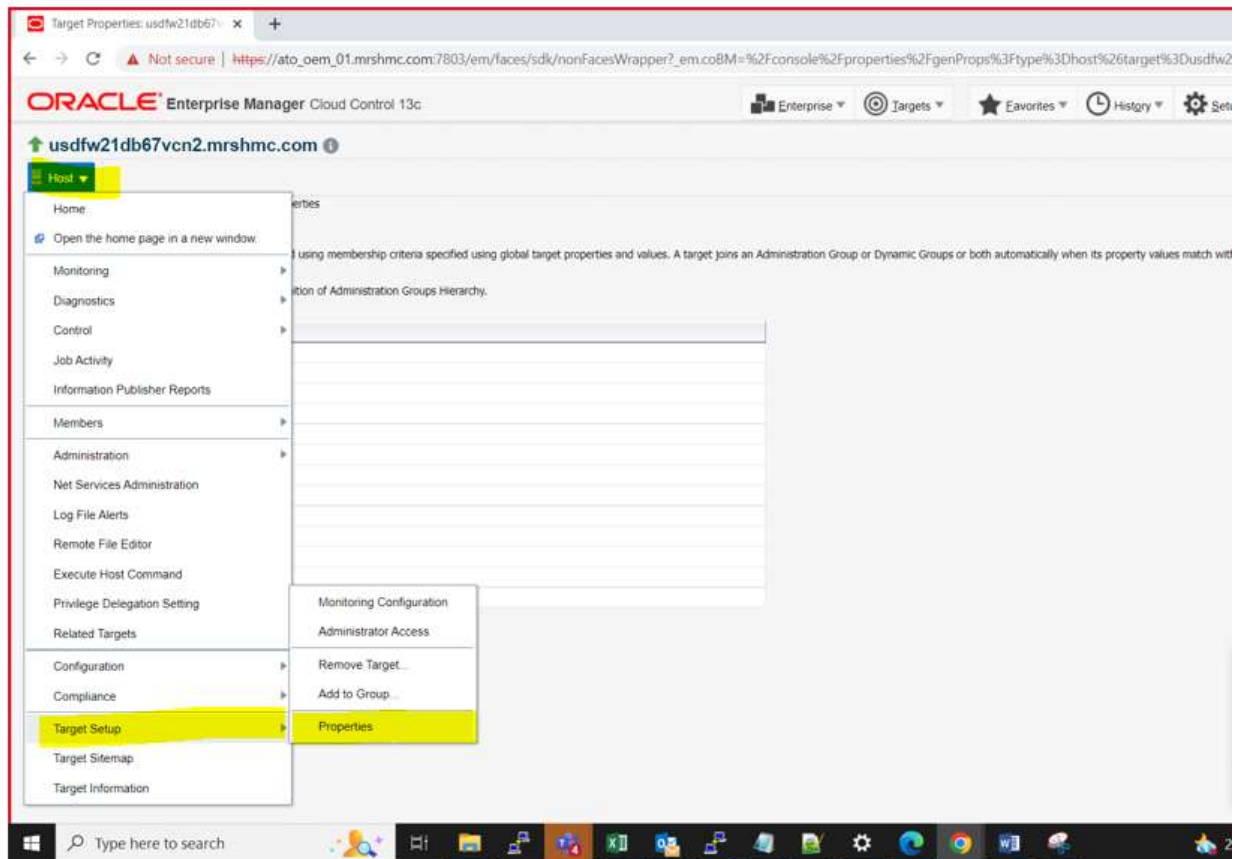
Configuration 49%

Compliance 4.9GB used of 10GB

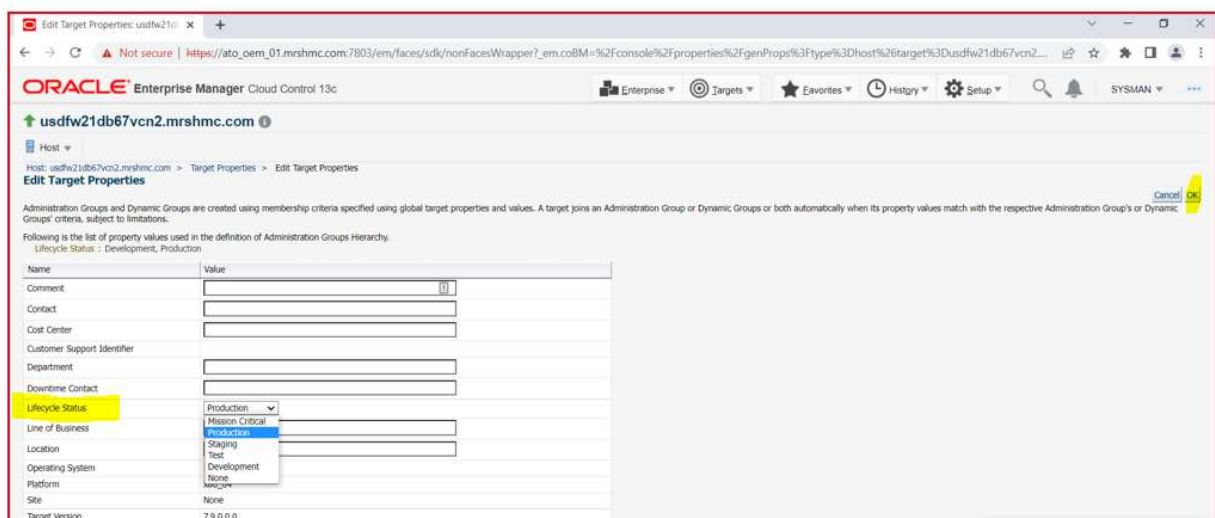
Memory Utilization

Last hrs Day Week Side-by-side

Click on Edit



After that select “**Production**” for Prod and “**Development**” for Non-Prod in LifeCycle Status. Highlighted below...



Click On “Ok” Button

Now verify Lifecycle Status of Respective Target.

- ❖ LifeCycle Status should be Production for PROD Group
- ❖ Development for Non-Prod Group.

Value should show as below:-

Oracle Enterprise Manager Cloud Control 13c

Host: usdfw21db67vcn2.mrshmc.com > Target Properties

Administration Groups and Dynamic Groups are created using membership criteria specified using global target properties and values. A target joins an Administration Group or Dynamic Groups or both automatically when its property values match with the respective Administration Group's or Dynamic Groups' criteria, subject to limitations.

Following is the list of property values used in the definition of Administration Groups Hierarchy.

LifeCycle Status : Development, Production

Name	Value
Comment	
Contact	
Cost Center	
Customer Support Identifier	
Department	
Downtime Contact	
LifeCycle Status	Production
Line of Business	
Location	
Operating System	Linux
Platform	x86_64
Site	
Target Version	7.9.0.0.0

(2.2) Add DB/Instance/ASM

Below Example for Adding DB "ICSWWC2P"

Click on "Setup" → "Add Target" → "Add Targets Manually"

Oracle Enterprise Manager Cloud Control 13c

Setup

- Initial Setup Console
- Add Target
- Extensibility
- Proxy Settings
- Security
- Incidents
- Notifications
- Provisioning and Patching
- My Oracle Support
- Middleware Management
- Manage Cloud Control
- Command Line Interface
- Management Packs
- Cloud Bridge

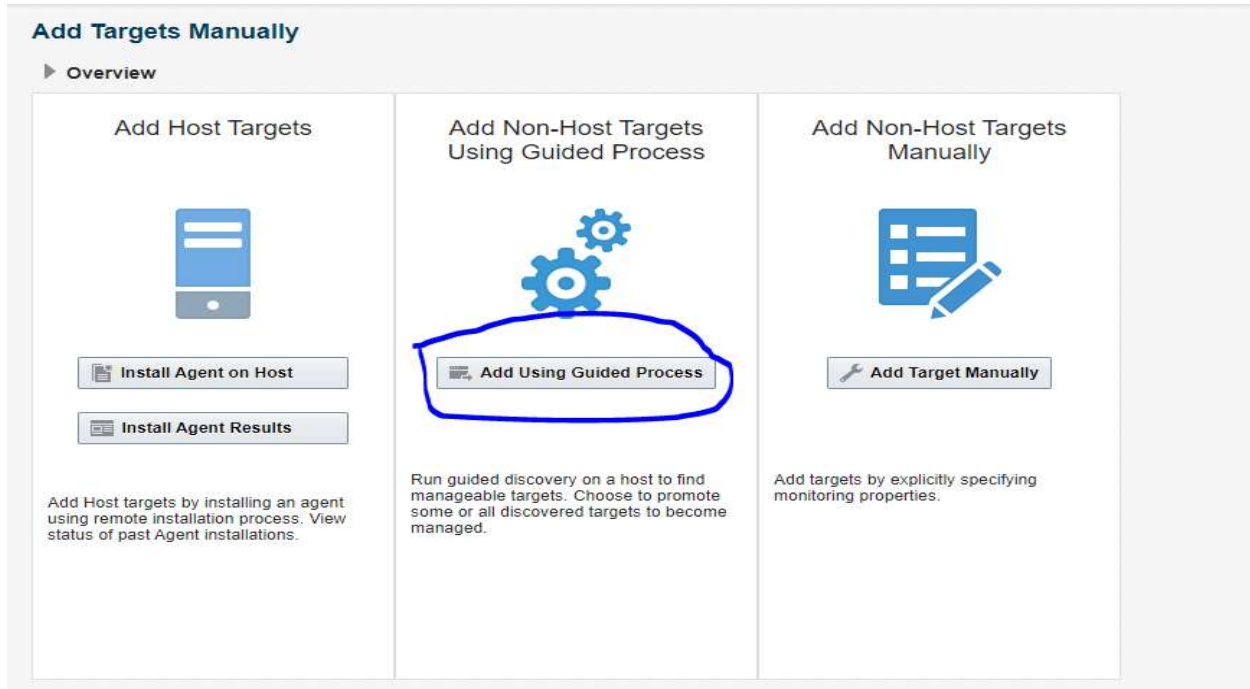
4 Critical
0 Warning

7%

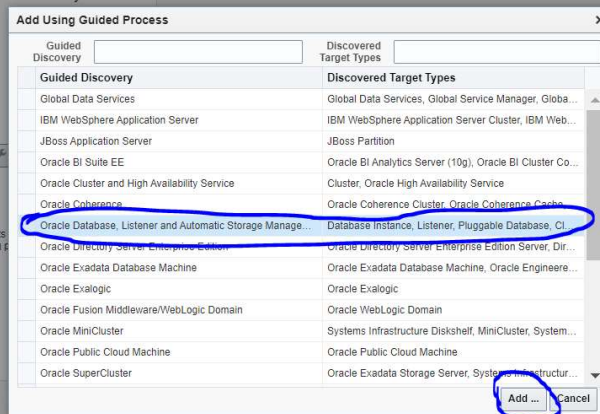
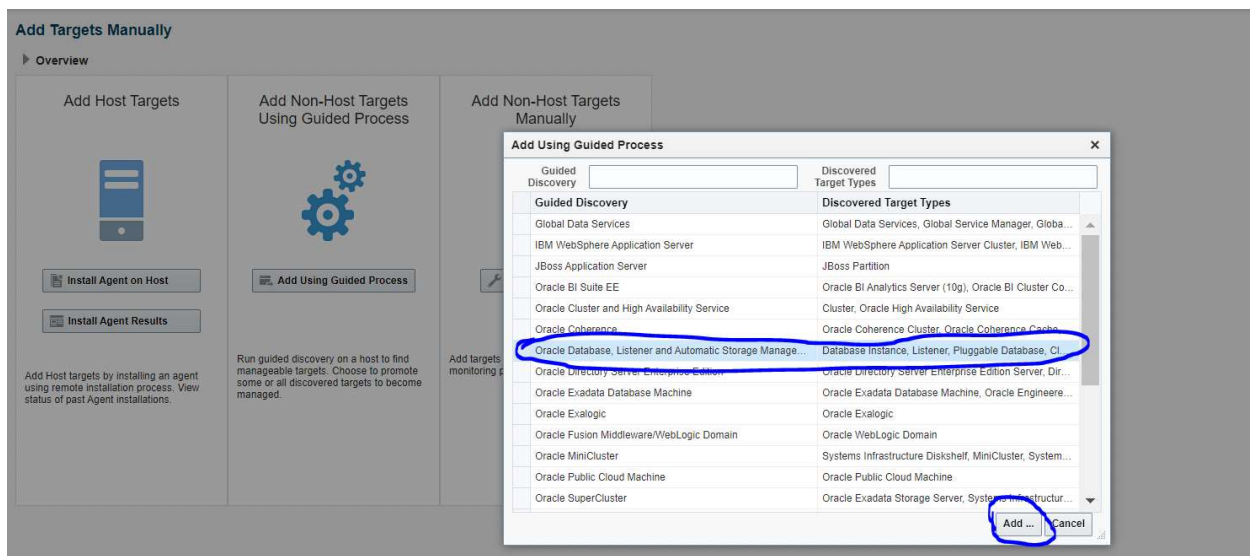
Used: 47.1 GB
Total: 178.9 GB

Host: usdfw21db67vcn2.mrshmc.com
Platform: x86_64
Operating System: Linux
Target Version: 7.9.0.0.0

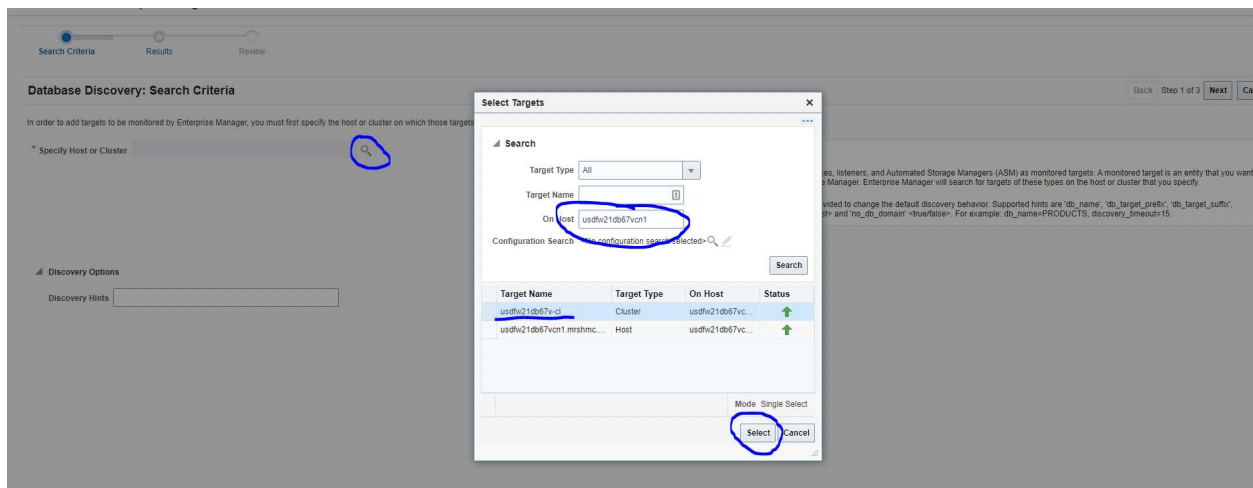
Click on "Add Using Guided Process"



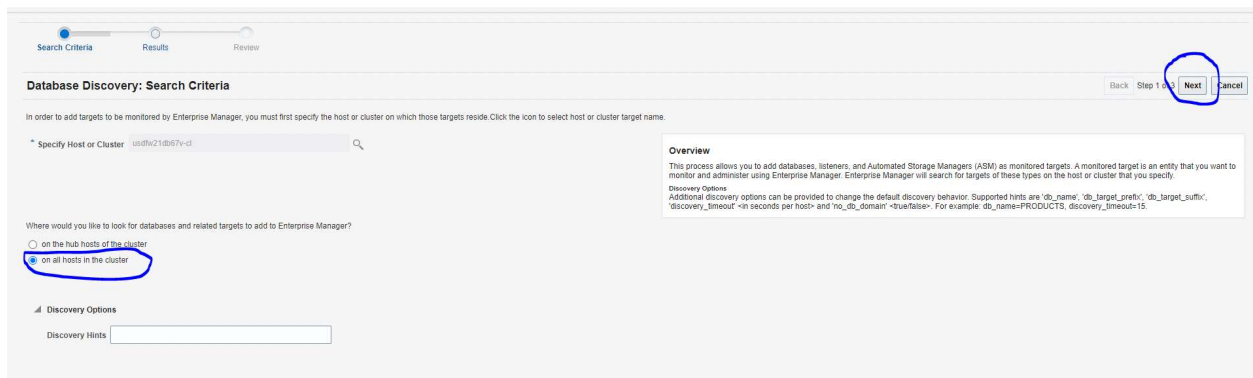
Select option as highlighted below and Click on “Add Button”



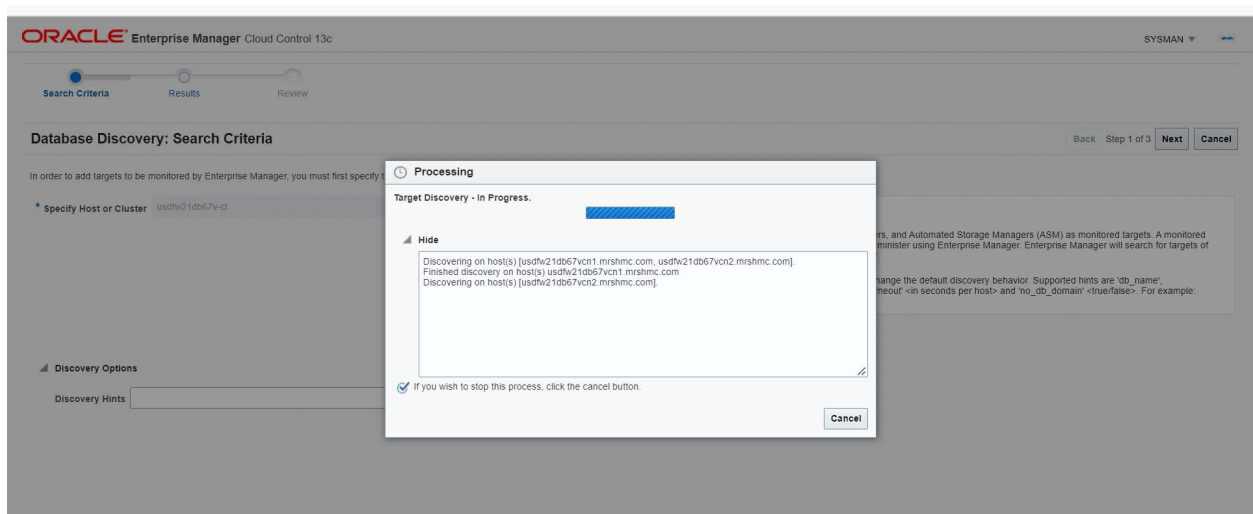
Follow highlighted steps in below snapshot



Select below Highlighted options and click on “Next”



Wait till until next window open



Select targets need to be added.

Tick check box for target DB → Put dbsnmp password → Click on search Button then select respective group as highlighted below

The screenshot shows the 'Database Discovery: Results' page. Under 'Cluster Databases', the 'ICSWWC2P' target is selected. The 'Monitoring Credentials' table shows 'dbsnmp' as the username and a masked password. The 'Target Group' is set to 'Prod-Grp'. A 'Select Targets' dialog box is open, showing a search for 'Prod-Grp' which is highlighted in the results.

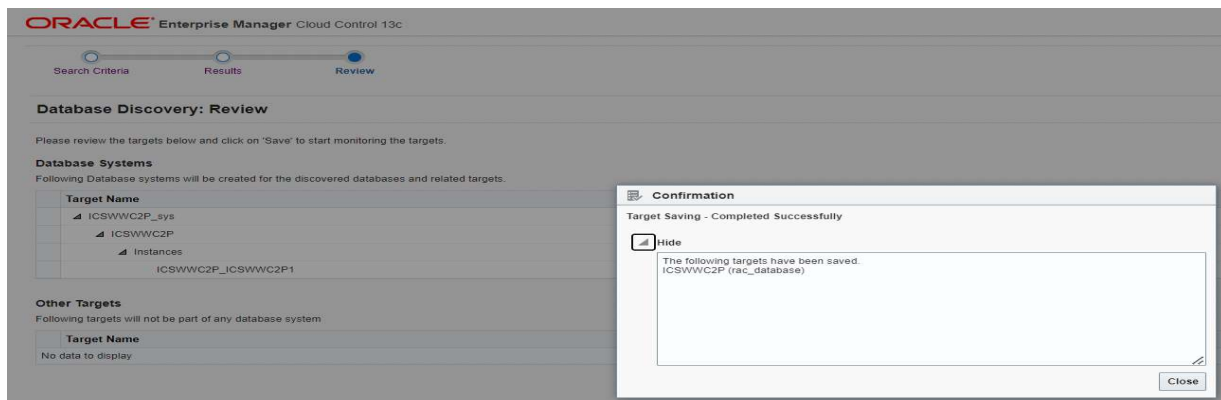
Click on test Button, One connection successful then click on Next

The screenshot shows the 'Database Discovery: Results' page. The 'Test Connection' button is circled. The 'ICSWWC2P' target is still selected, and the 'Prod-Grp' target group is visible in the table.

Click "Save" buttons

The screenshot shows the 'Database Discovery: Review' page. The 'Save' button is circled. The page shows a summary of the discovered database systems and targets.

Target Name	Target Type	Host
ICSWWC2P_sys	Database System	usdfw21db67vcn1.mshmc.com
ICSWWC2P	Cluster Database	usdfw21db67vcn1.mshmc.com
Instances		
ICSWWC2P_ICSWWC2P1	Database Instance	usdfw21db67vcn1.mshmc.com

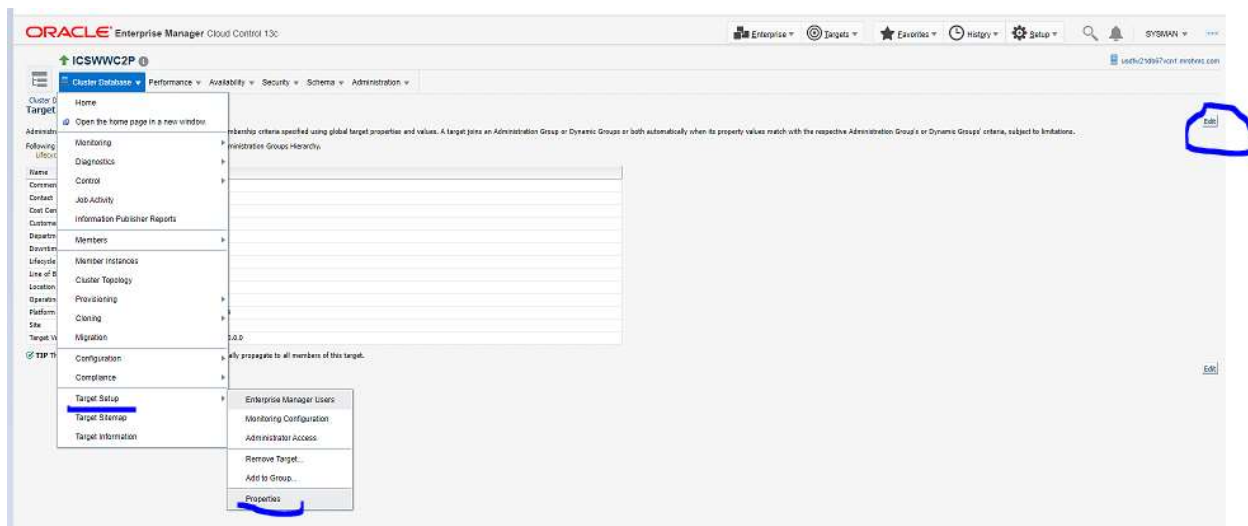


Now modify and fix LifeCycle Status for each target

- ❖ LifeCycle Status should be Production for PROD Group
- ❖ Development for Non-Prod Group.

Target Name	Target Type	Target Status	Lifecycle Status	On Remote Host
ICSWWC2P	Cluster Database	↑		
ICSWWC2P_ICSWWC2P1	Database Instance	↑		
ICSWWC2P_sys	Database System	↑		

Click on Target database → Target information as highlighted below



Modify Target Property to correct Lifecycle Production for Prod and Development for Non-Pros.

Cluster Database: ICSWWC2P > Target Properties > Edit Target Properties

Edit Target Properties

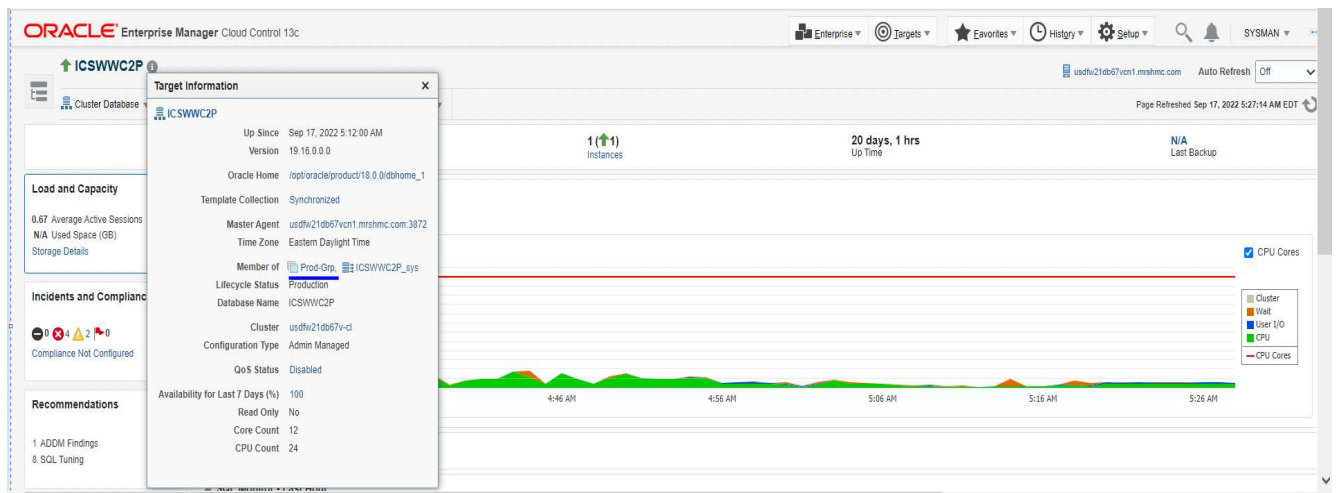
Administration Groups and Dynamic Groups are created using membership criteria specified using global target properties and values. A target joins an Administration Group or Dynamic Groups or both automatically when its property values match with the respective Administration Group's or Dynamic Group's criteria, subject to limitations.

Following is the list of property values used in the definition of Administration Groups Hierarchy.
Lifecycle Status : Development, Production

Name	Value
Comment	
Contact	
Cost Center	
Customer Support Identifier	
Department	
Downtime Contact	
Lifecycle Status	Production
Line of Business	
Location	
Operating System	Linux
Platform	x86_64
Site	None
Target Version	19.16.0.0.0

TIP The values you specify for target properties will automatically propagate to all members of this target.

Targets should highlighted group for "Prod"



Validate all target on OEM

View Search Target Name usdfw21db67v

Save Search Saved Searches

Target Name	Target Type	Target Status	Lifecycle Status	On
CTMWWC4P1_usdfw21db67vcn1.mrshmc.com	Database Instance	↑		
CTMWWC4P2_usdfw21db67vcn2.mrshmc.com	Database Instance	↑		
has_usdfw21db67vcn1.mrshmc.com	Oracle High Availability Service	↑		
has_usdfw21db67vcn2.mrshmc.com	Oracle High Availability Service	↑		
ICSWWC2P1_usdfw21db67vcn1.mrshmc.com	Database Instance	↑		
INCCCP1P1_usdfw21db67vcn1.mrshmc.com	Database Instance	↑		
LISTENER_usdfw21db67vcn1.mrshmc.com	Listener	↑		
LISTENER_usdfw21db67vcn2.mrshmc.com	Listener	↑		
Oradb18Home1_1_usdfw21db67vcn1.mrshmc.com_1613	Oracle Home	N/A		
Oradb18Home1_2_usdfw21db67vcn1.mrshmc.com_8687	Oracle Home	N/A		
Oradb18Home1_2_usdfw21db67vcn2.mrshmc.com_8687	Oracle Home	N/A		
Oradb19Home1_1_usdfw21db67vcn1.mrshmc.com_757	Oracle Home	N/A		
Oradb19Home1_1_usdfw21db67vcn2.mrshmc.com_757	Oracle Home	N/A		
usdfw21db67v-cl	Cluster	↑		
usdfw21db67vcn1.mrshmc.com	Host	↑		
usdfw21db67vcn1.mrshmc.com:3872	Agent	↑		
usdfw21db67vcn2.mrshmc.com	Host	↑		
usdfw21db67vcn2.mrshmc.com:3872	Agent	↑		