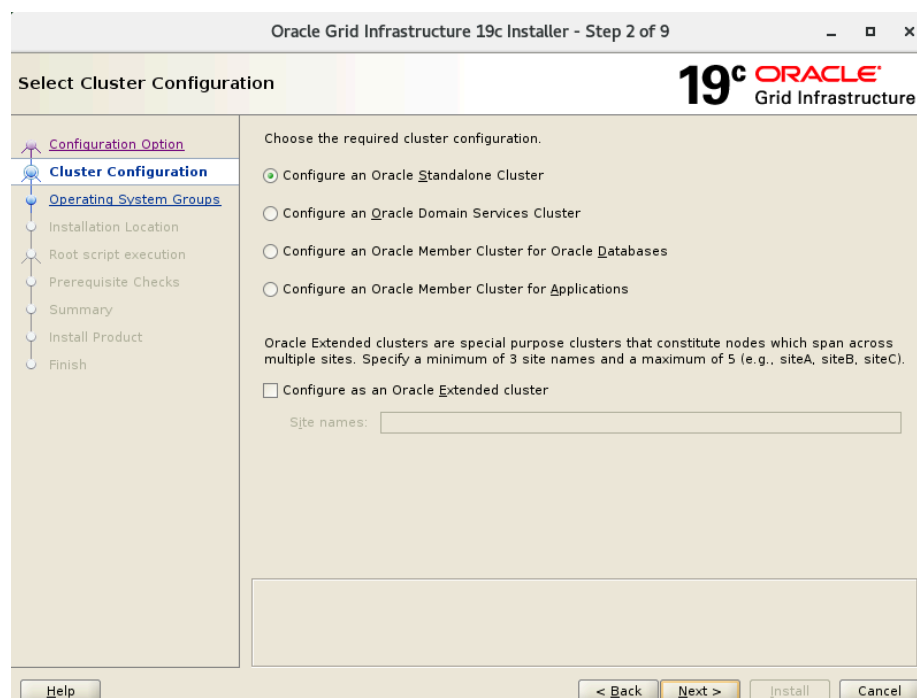
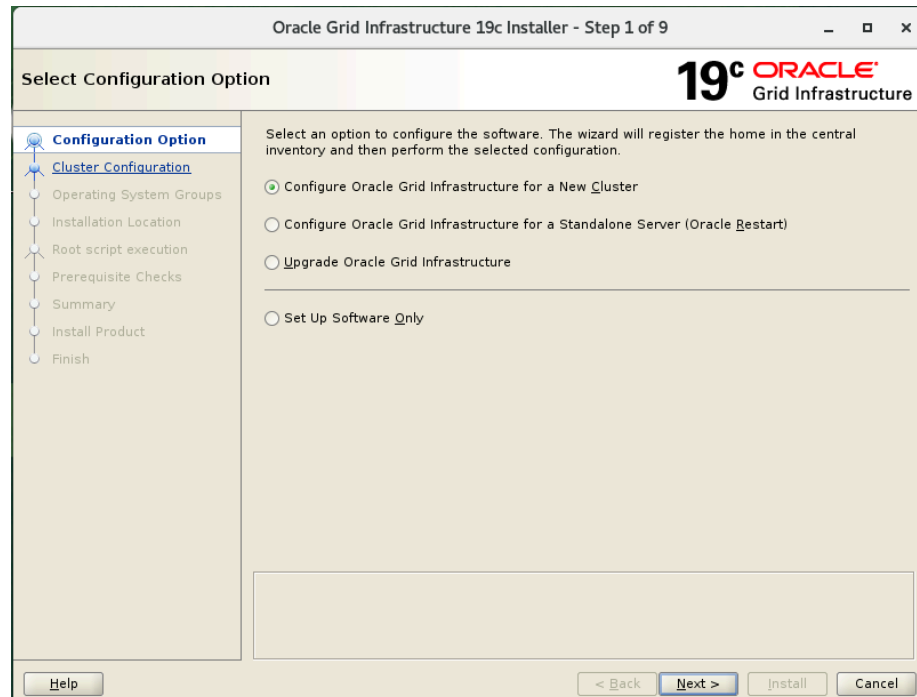




RAC(2) - install grid, install DB S/W (./gridSetup.sh)

▼ 오라클 19c RAC 설치 (./gridSetup.sh 부터)

1. ./gridSetup.sh 실행



Oracle Grid Infrastructure 19c Installer - Step 3 of 17

Grid Plug and Play Information

Single Client Access Name (SCAN) allows clients to use one name in connection strings to connect to the cluster as a whole. Client connect requests to the SCAN name can be handled by any

☒ Create Local SCAN

Cluster Name:

SCAN Name:

SCAN Port:

☐ Use Shared SCAN

SCAN Client Data:

☐ Configure GNS

☐ Configure nodes Virtual IPs as assigned by the Dynamic Networks

☒ Create a new GNS

GNS VIP Address:

GNS Sub Domain:

☐ Use Shared GNS

GNS Client Data:

Oracle Grid Infrastructure 19c Installer - Step 4 of 17

Cluster Node Information

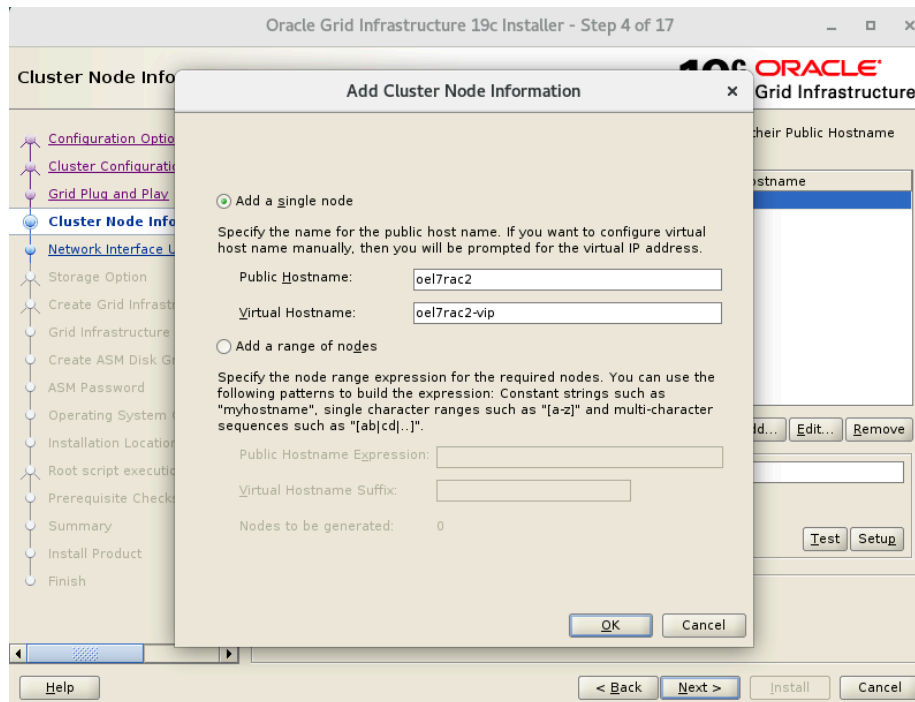
Provide the list of nodes to be managed by Oracle Grid Infrastructure with their Public Hostname and Virtual Hostname.

Public Hostname	Virtual Hostname
oel7rac1	oel7rac1-vip

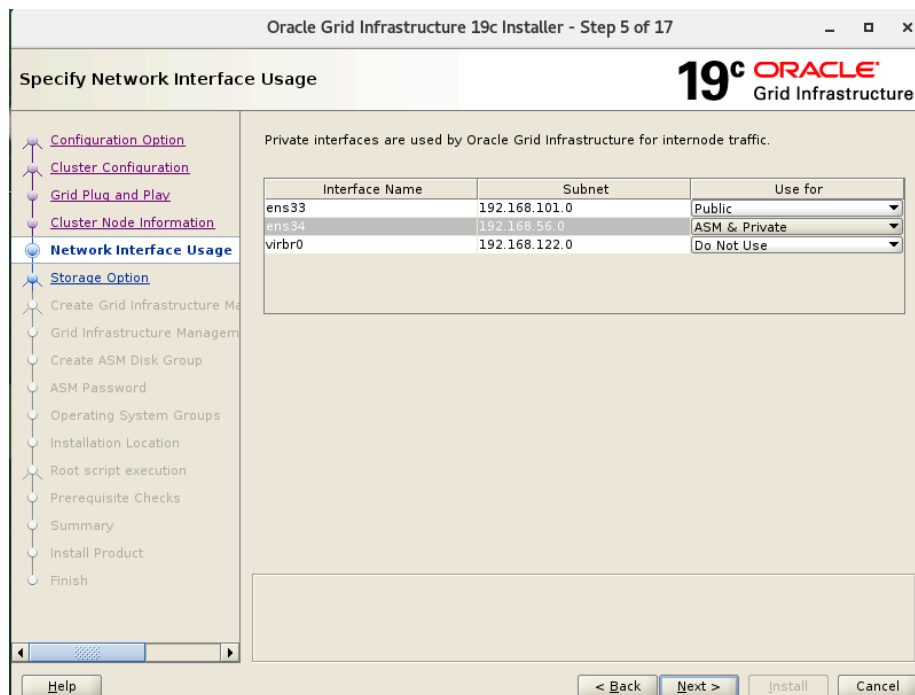
OS Username: OS Password:

☐ Reuse private and public keys existing in the user home

SSH connectivity 누르고 password는 grid 입력하고 Add버튼 누르기

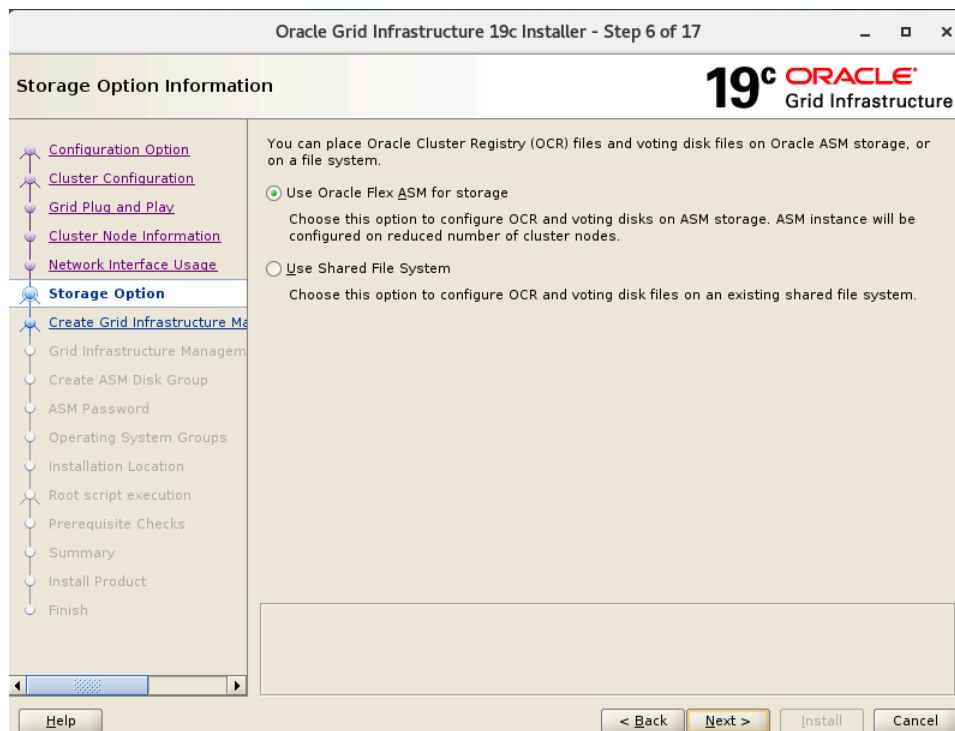


oel7rac2와 oel7rac2-vip 입력해주고 ok, 넘어가기 전에 setup, test 둘 다 눌러서 확인

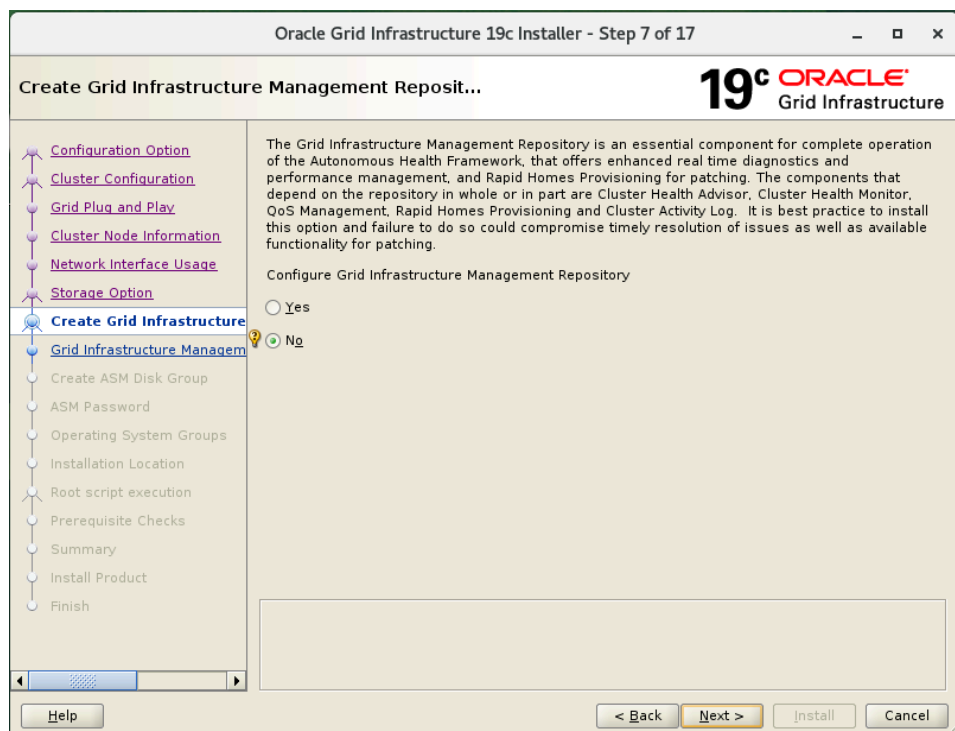


ens34(두번째 꺼) asm&private로 변경

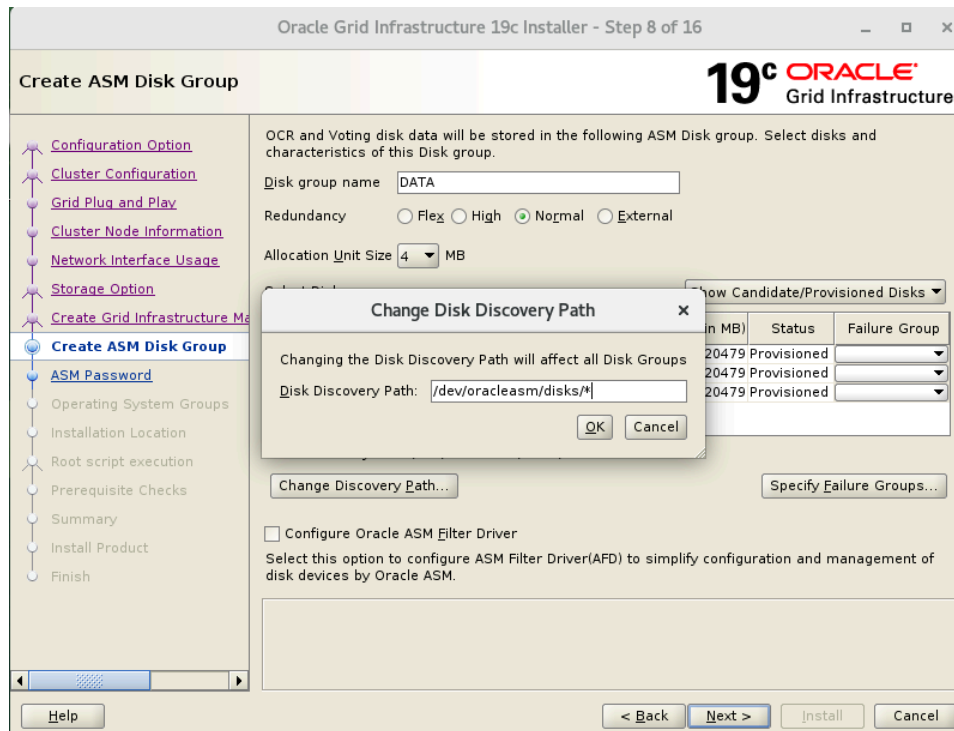
- 네트워크 문제 아닌이상 노드는 항상 붙어있다
- 떨어지면 다시 붙이면 된다
- ens33 ⇒ public : 바깥으로 나가기 위한 네트워크



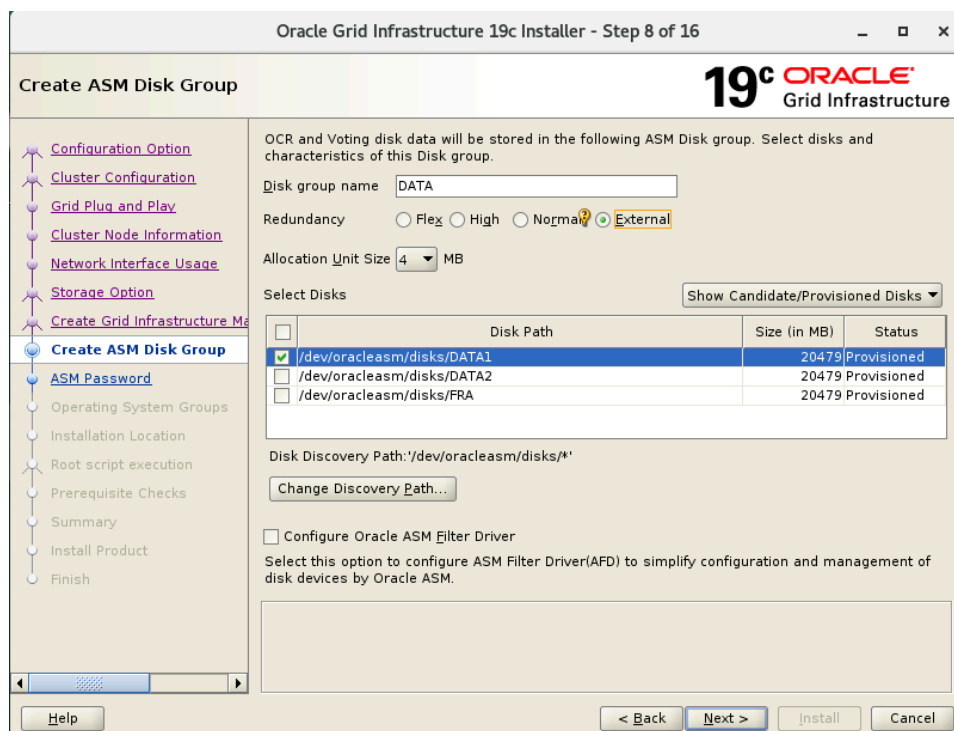
첫번째



No!!!!!!!!!!!!!!



change discovery Path 클릭 후 /dev/oracleasm/disks/* 로 경로변경 아직 넘어가지말자



external로 바꿔주도, 첫번째 DATA1만 클릭

Oracle Grid Infrastructure 19c Installer - Step 9 of 16

Specify ASM Password

The new Oracle Automatic Storage Management (Oracle ASM) instance requires its own SYS user with SYSASM privileges for administration. Oracle recommends that you create a less privileged ASMSNMP user with SYSDBA privileges to monitor the ASM instance.

Specify the password for these user accounts.

☐ Use different passwords for these accounts

	Password	Confirm Password
SYS		
ASMSNMP		

☒ Use same passwords for these accounts

Specify Password: Confirm Password:

Messages:

Specify Password:[INS-30011] The password entered does not conform to the Oracle recommended standards.

Help < Back Next > Install Cancel

두번째꺼에서 oracle/oracle

Oracle Grid Infrastructure 19c Installer - Step 10 of 18

Failure Isolation Support

Choose one of the following Failure Isolation Support options.

☐ Use Intelligent Platform Management Interface (IPMI)

To ensure successful installation with IPMI enabled, ensure your IPMI drivers are properly installed and enabled.

User Name :

Password :

☒ Do not use Intelligent Platform Management Interface (IPMI)

Help < Back Next > Install Cancel

두번째

Oracle Grid Infrastructure 19c Installer - Step 11 of 18

Specify Management Options

19c ORACLE
Grid Infrastructure

You can configure to have this instance of Oracle Grid Infrastructure and Oracle Automatic Storage Management to be managed by Enterprise Manager Cloud Control. Specify the details of the Cloud Control configuration to perform the registration.

☐ Register with Enterprise Manager (EM) Cloud Control

OMS host:

OMS port:

EM Admin User Name:

EM Admin Password:

Management Options

- Configuration Option
- Cluster Configuration
- Grid Plug and Play
- Cluster Node Information
- Network Interface Usage
- Storage Option
- Create Grid Infrastructure Metadata
- Create ASM Disk Group
- ASM Password
- Failure Isolation
- Management Options**
- Operating System Groups
- Installation Location
- Root script execution
- Prerequisite Checks
- Summary
- Install Product
- Finish

[Help](#) [< Back](#) [Next >](#) [Install](#) [Cancel](#)

클릭아무것도 안함

Oracle Grid Infrastructure 19c Installer - Step 12 of 18

Privileged Operating System Groups

19c ORACLE
Grid Infrastructure

Select the name of the operating system group, that you want to use for operating system authentication to Oracle Automatic Storage Management.

Oracle ASM Administrator (OSASM) Group:

Oracle ASM DBA (OSDBA for ASM) Group:

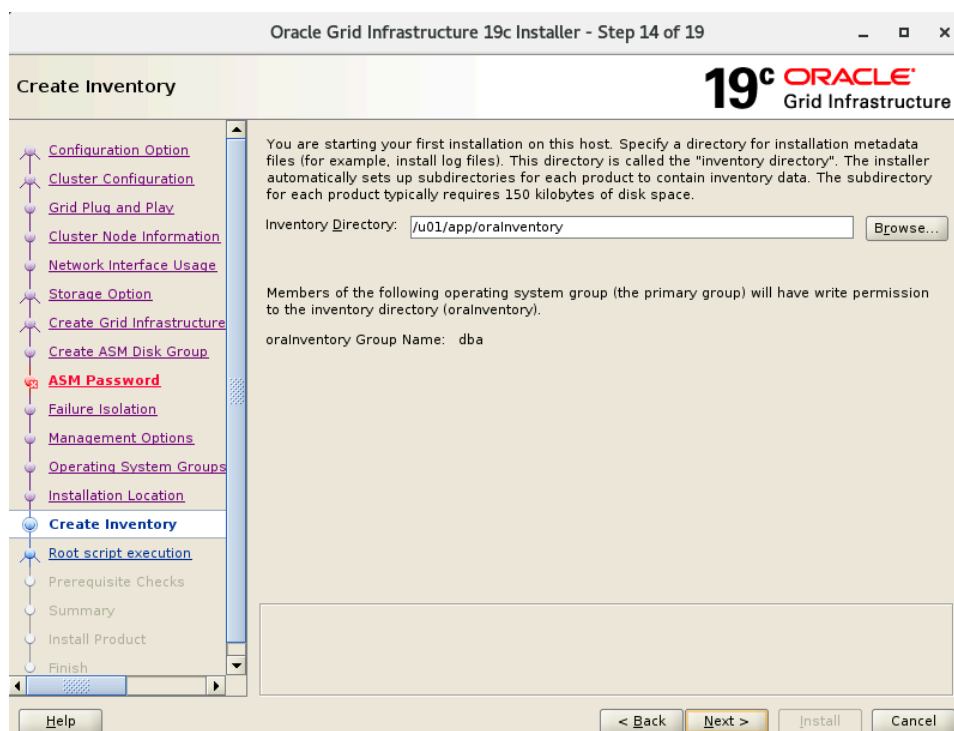
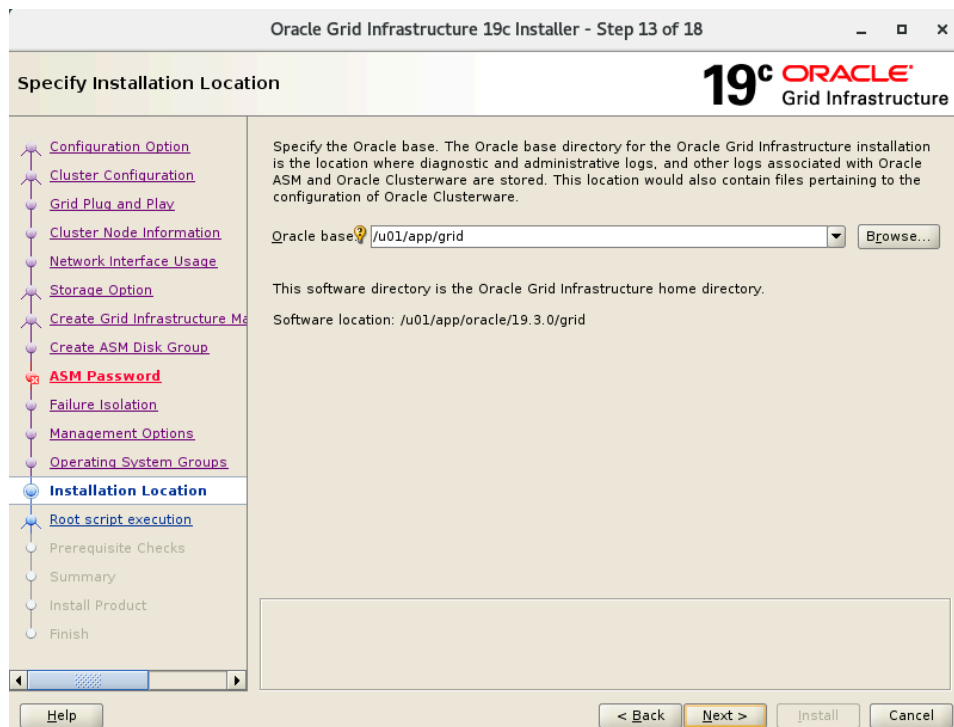
Oracle ASM Operator (OSOPER for ASM) Group (Optional):

Operating System Groups

- Configuration Option
- Cluster Configuration
- Grid Plug and Play
- Cluster Node Information
- Network Interface Usage
- Storage Option
- Create Grid Infrastructure Metadata
- Create ASM Disk Group
- ASM Password
- Failure Isolation
- Management Options
- Operating System Groups**
- Installation Location
- Root script execution
- Prerequisite Checks
- Summary
- Install Product
- Finish

[Help](#) [< Back](#) [Next >](#) [Install](#) [Cancel](#)

dba 둘 다



Oracle Grid Infrastructure 19c Installer - Step 15 of 19

Root script execution configuration

During the software configuration, certain operations have to be performed as "root" user. You can choose to have the installer perform these operations automatically by specifying inputs for one of the options below. The input specified will also be used by the installer to perform additional prerequisite checks.

☒ Automatically run configuration scripts

☒ Use "root" user credential

Password :

☐ Use sudo

Program path :

User name :

Password :

Help < Back Next > Install Cancel

★★★★auto 선택하기★★★★

Oracle Grid Infrastructure 19c Installer - Step 16 of 19

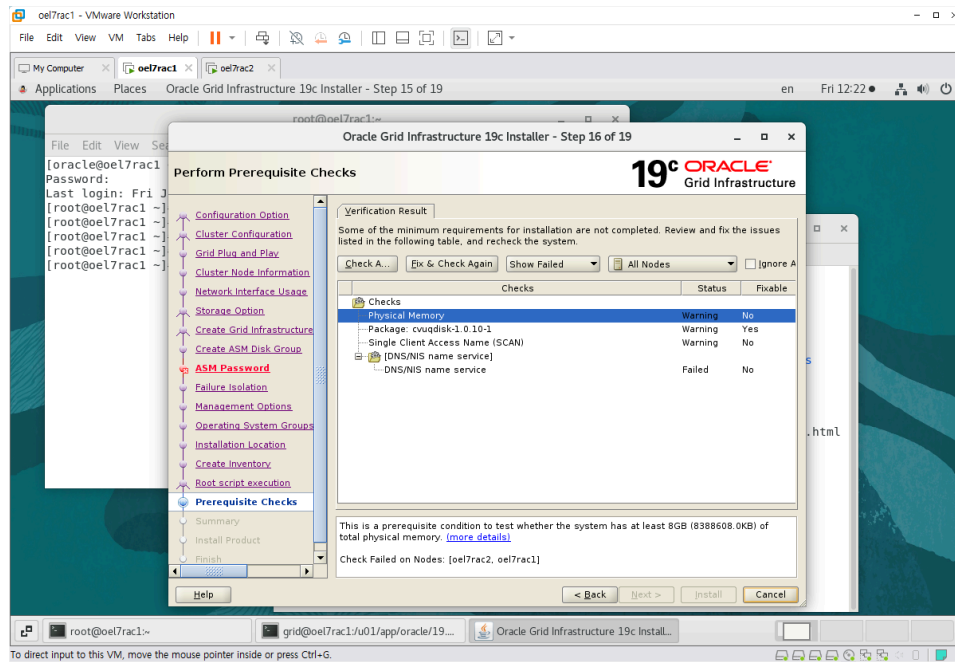
Perform Prerequisite Checks

Verifying that the target environment meets minimum installation and configuration requirements for products you have selected. This can take time. Please wait.

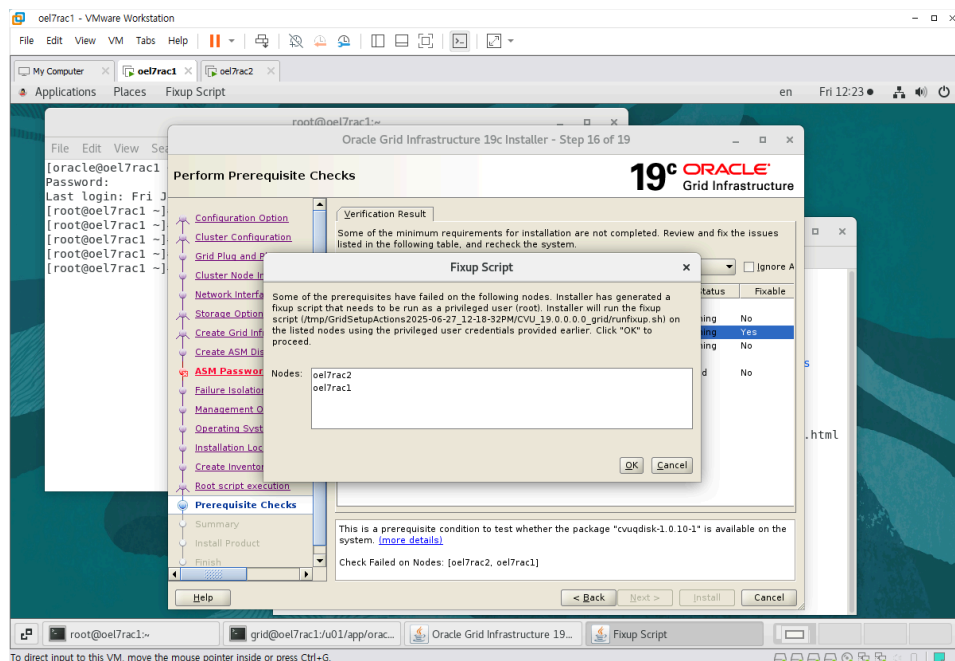
78%

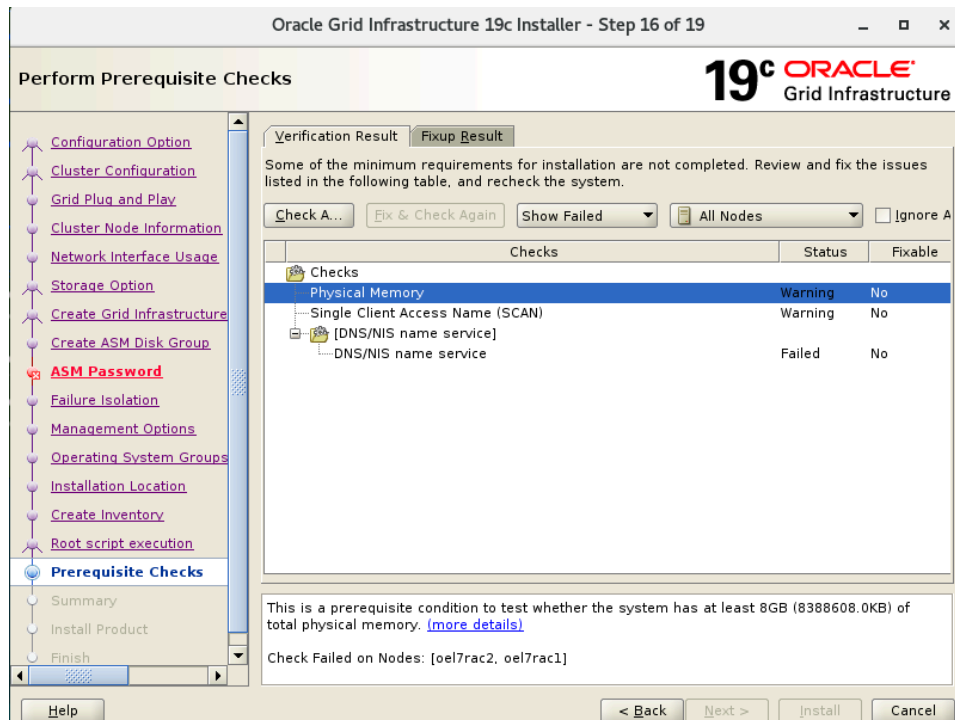
Checking Network interface bonding status of private interconnect network interfaces ...

Help < Back Next > Install Cancel

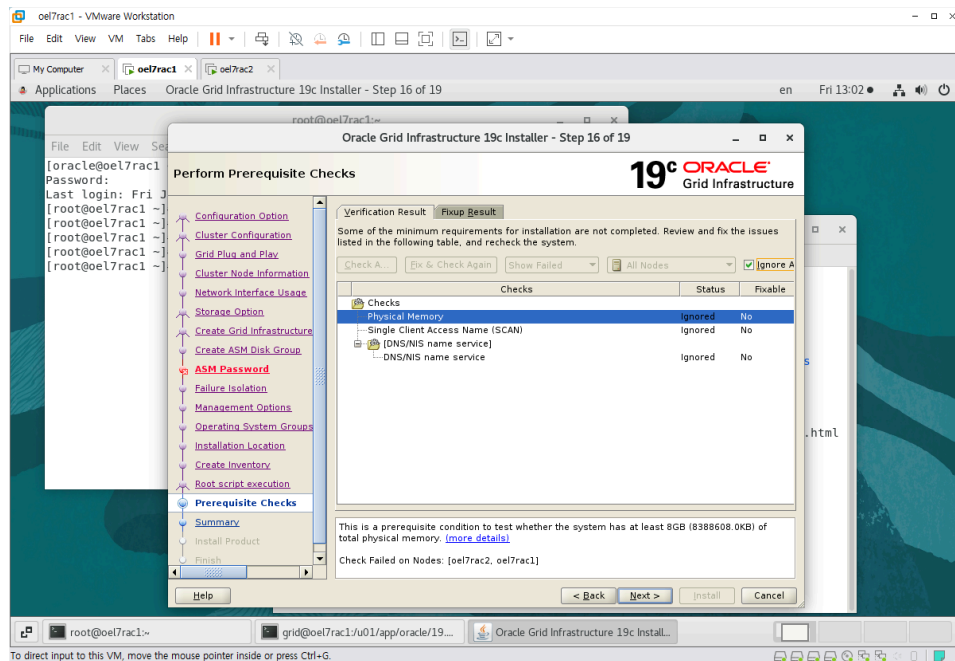


package 누르고 Fix & check again 버튼 클릭

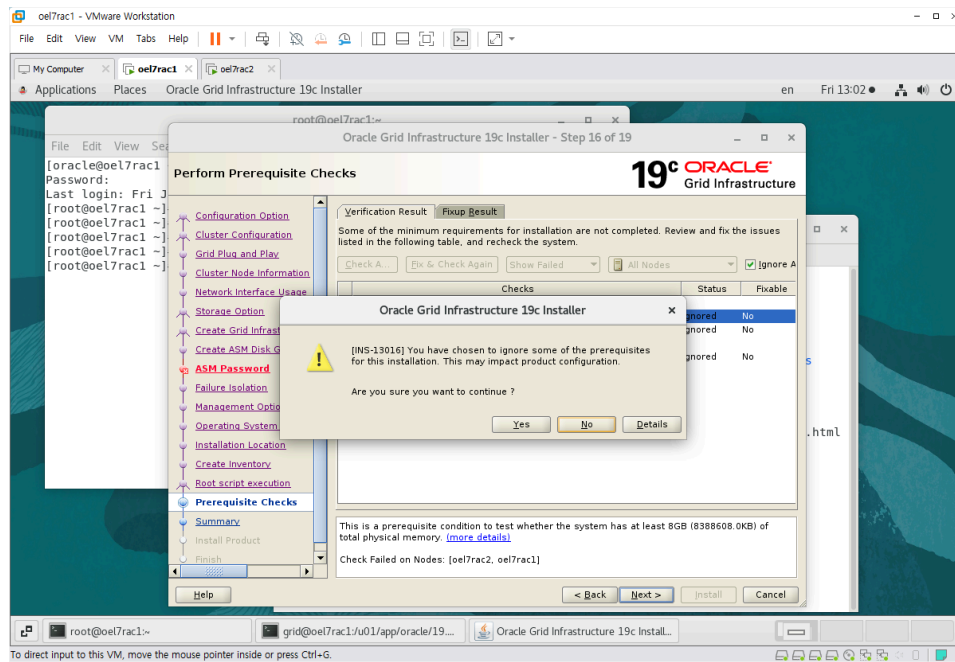




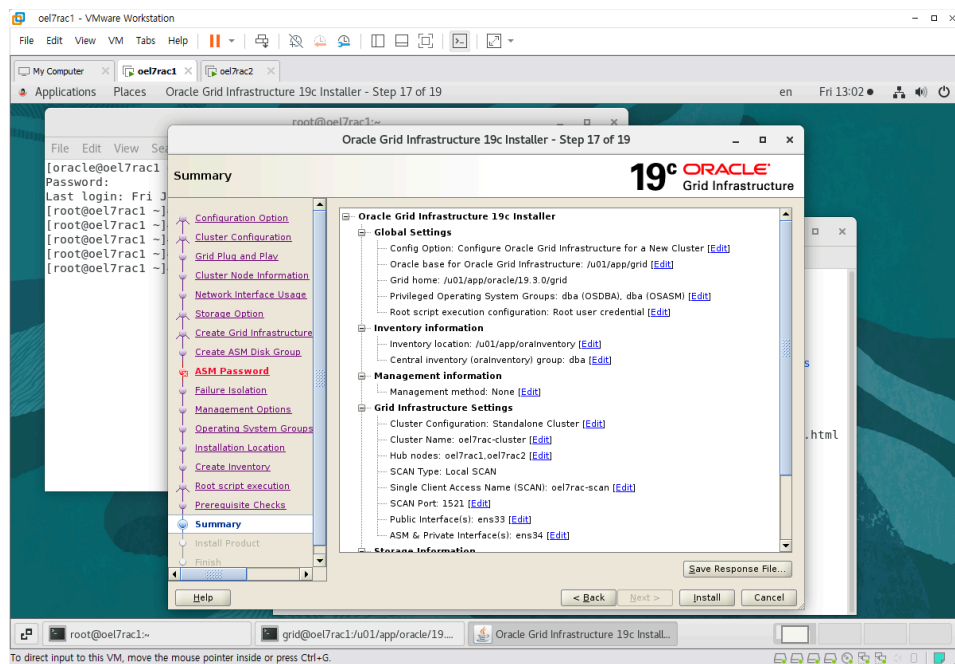
짜잔 에러가 사라졌다



ignore all 클릭



yes



install

밤먹고왔더니 reboot됨

<설치 후 상태 확인>

last reboot

[grid@oel7rac1 ~]\$ crsctl stat res -t

[grid@oel7rac1 ~]\$ crsctl check crs

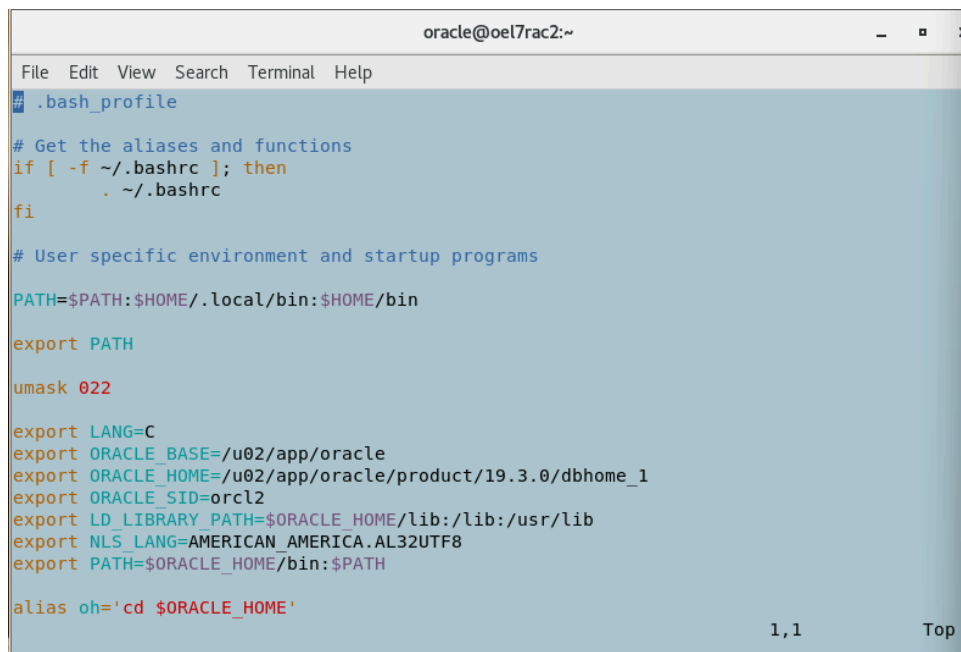
<세팅 추가 rac1, 2 둘 다>

ORACLE_SID=orcl1 ⇒ rac2에서는 orcl2

```
$ su - oracle
$ vi .bash_profile

export LANG=C
export ORACLE_BASE=/u02/app/oracle
export ORACLE_HOME=/u02/app/oracle/product/19.3.0/dbhome_1
export ORACLE_SID=orcl1 ⇒ rac2에서는 orcl2
export LD_LIBRARY_PATH=$ORACLE_HOME/lib:/lib:/usr/lib
export NLS_LANG=AMERICAN_AMERICA.AL32UTF8
export PATH=$ORACLE_HOME/bin:$PATH

alias oh='cd $ORACLE_HOME'
```



```
oracle@oel7rac2:~
File Edit View Search Terminal Help
# .bash_profile

# Get the aliases and functions
if [ -f ~/.bashrc ]; then
    . ~/.bashrc
fi

# User specific environment and startup programs

PATH=$PATH:$HOME/.local/bin:$HOME/bin
export PATH

umask 022

export LANG=C
export ORACLE_BASE=/u02/app/oracle
export ORACLE_HOME=/u02/app/oracle/product/19.3.0/dbhome_1
export ORACLE_SID=orcl2
export LD_LIBRARY_PATH=$ORACLE_HOME/lib:/lib:/usr/lib
export NLS_LANG=AMERICAN_AMERICA.AL32UTF8
export PATH=$ORACLE_HOME/bin:$PATH

alias oh='cd $ORACLE_HOME'

1,1 Top
```

[oracle@oel7rac2 ~]\$ vi /home/oracle/.bash_profile

<rac1,2에서 둘 다 해주기>

```
root@oel7rac2:~  
File Edit View Search Terminal Help  
# Command line options for ntpd  
#OPTIONS="-g"  
OPTIONS="-x -u ntp:ntp -p /var/run/ntpd.pid"  
  
"/etc/sysconfig/ntpd" 3L, 91C
```

[root@oel7rac2 ~]# vi /etc/sysconfig/ntpd

OPTIONS="-g"는 주석처리

OPTIONS="-x -u ntp:ntp -p /var/run/ntpd.pid" 추가

```
[root@oel7rac2 ~]# systemctl status ntpd  
● ntpd.service - Network Time Service  
   Loaded: loaded (/usr/lib/systemd/system/ntpd.service; enabled; vendor preset: disabled)  
   Active: active (running) since Fri 2025-06-27 16:43:22 KST; 12min ago  
     Process: 1046 ExecStart=/usr/sbin/ntpd -u ntp:ntp $OPTIONS (code=exited, status=0/SUCCESS)  
    Main PID: 1076 (ntpd)  
       Tasks: 1  
      CGroup: /system.slice/ntpd.service  
              └─1076 /usr/sbin/ntpd -u ntp:ntp -g  
  
Jun 27 16:43:37 oel7rac2 ntpd[1076]: 0.0.0.0 c61c 0c clock_step +0.334742 s  
Jun 27 16:43:37 oel7rac2 ntpd[1076]: 0.0.0.0 c614 04 freq_mode  
Jun 27 16:43:38 oel7rac2 ntpd[1076]: 0.0.0.0 c618 08 no_sys_peer  
Jun 27 16:44:51 oel7rac2 ntpd[1076]: Listen normally on 9 ens34:1 169.254.2.113 UDP 123  
Jun 27 16:44:51 oel7rac2 ntpd[1076]: new interface(s) found: waking up resolver  
Jun 27 16:45:23 oel7rac2 ntpd[1076]: Listen normally on 10 ens33:1 192.168.101.72 ...23  
Jun 27 16:45:23 oel7rac2 ntpd[1076]: Listen normally on 11 ens33:2 192.168.101.20 ...23  
Jun 27 16:45:23 oel7rac2 ntpd[1076]: Listen normally on 12 ens33:3 192.168.101.21 ...23  
Jun 27 16:45:23 oel7rac2 ntpd[1076]: new interface(s) found: waking up resolver  
Jun 27 16:45:37 oel7rac2 ntpd[1076]: Deleting interface #11 ens33:2, 192.168.101.2...cs  
Hint: Some lines were ellipsized, use -l to show in full.
```

[root@oel7rac2 ~]# systemctl status ntpd 로 상태확인

<unzip>

```

[oracle@oel7rac1 ~]$ cd /u02/app/oracle/product/19.3.0/dbhome_1/
[oracle@oel7rac1 dbhome_1]$ unzip -q /home/STAGE/V982063-01.zip
[oracle@oel7rac1 dbhome_1]$ ls
OPatch      ctx         dv          jlib        oracore     rdbms       sqlj
OOpatch     cv          env.ora     ldap        ord         relnotes    sqlpatch
R           data       has         lib         ords        root.sh     sqlplus
addnode     dbjava     hs          md          oss         root.sh.old srvrm
apex        dbs         install     mgw         oui         root.sh.old.1 suptools
assistants  deinstall  instantclient network     owm         runinstaller ucp
bin         demo       inventory   nls         perl        schagent.conf usm
clone       diagnostics javavm      odbc        plsql       sdk         utl
crs         dm          jdbc        olap        precomp     slax        wwv
css         drdaas     jdk         opmn        racg        sqldeveloper xdk
[oracle@oel7rac1 dbhome_1]$

```

```

$ cd /u02/app/oracle/product/19.3.0/dbhome_1
$ unzip -q /home/STAGE/V982063-01.zip

```