

ABLESTACK Online Docs ABLESTACK-V4.0-4.0.15

Oracle 데이터베이 스 구성

Oracle 데이터베이스 구성

Oracle 데이터베이스 소프트웨어 설치 및 데이터베이스를 구성하는 가이드입니다.

🚺 Info

가이드에 사용되는 입력값은 예시입니다. 필요시 환경에 맞게 변경 가능합니다.

데이터베이스 소프트웨어 구성

Oracle RAC 데이터베이스 엔진 소프트웨어를 설치합니다.

```
Oracle 설치 폴더 생성 및 권한설정 ( 노드 : 전체 / 계정 : root )
```

```
mkdir -p /u02/app/oracle
mkdir -p /u02/app/oraInventory
chown -R oracle:dba /u02/app/oracle
chown -R oracle:dba /u02/app/oraInventory
chmod -R 775 /u02/app
```

oracle 계정 bash_profile 수정 (노드 : node1 / 계정 : oracle)

```
su - oracle
vi .bash_profile
(추가)
export LANG=C
export ORACLE_BASE=/u02/app/oracle
export ORACLE_HOME=/u02/app/oracle/product/19.0.0/dbhome_1
export ORACLE_SID=ORA191
export ORACLE_SID=ORA191
export LD_LIBRARY_PATH=$ORACLE_HOME/lib:/lib:/usr/lib
export LD_LIBRARY_PATH=$ORACLE_HOME/lib:/lib:/usr/lib
export NLS_LANG=AMERICAN_AMERICA.AL32UTF8
export PATH=$ORACLE_HOME/bin:$PATH
```

alias oh='cd \$ORACLE_HOME'

oracle 계정 bash_profile 수정 (노드 : node2 / 계정 : oracle)

```
su - oracle
vi .bash_profile
(추가)
export LANG=C
export ORACLE_BASE=/u02/app/oracle
export ORACLE_HOME=/u02/app/oracle/product/19.0.0/dbhome_1
export ORACLE_SID=ORA192
export LD_LIBRARY_PATH=$ORACLE_HOME/lib:/lib:/usr/lib
export LD_LIBRARY_PATH=$ORACLE_HOME/lib:/lib:/usr/lib
export NLS_LANG=AMERICAN_AMERICA.AL32UTF8
export PATH=$ORACLE_HOME/bin:$PATH
```

```
alias oh='cd $ORACLE_HOME'
```

oracle 설치파일 압축 풀기 (노드 : node1 / 계정 : oracle)

mkdir -p /u02/app/oracle/product/19.0.0/dbhome_1 cd /u02/app/oracle/product/19.0.0/dbhome_1 unzip -q /home/STAGE/LINUX.X64_193000_db_home.zip (1번노드에서만 풀면 됨 > 설치시 다른노드에 자동 복사함)

oracle 설치 ui 구동 (노드 : node1 / 계정 : oracle)

> 윈도우 x-trem으로 접속하여 실행 (mac os 에서는 설치 UI 화면 깨짐 / windows MobaXtrem 사용) su - oracle

cd /u02/app/oracle/product/19.0.0/dbhome_1 ./runInstaller

Oracle Database 19c Installer - Step 1 of 9@ol7rac1

Select Configuration Option



Х

Q	Configuration Option	Select any of the following install options.		
-	Database Installation Options	<u>Create and configure a single instance database.</u>		
Å	Install Type	This option creates a starter database.		
Ý	Typical Installation	♀ ● Set Up Software Only		
4	Root script execution			
4	Prerequisite Checks			
4	Summary	Note 1: For RAC install, do 'Set Up Software Only' and then execute DBCA (Database Configuration Assistant) from the oracle home.		
4	Install Product	Note 2: To upgrade an Oracle Database, do 'Set Up Software Only' and then execute DBUA (Database Upgrade Assistant) from the oracle home		
9	Finish			
•		(2)		
	Help			

• Set Up Software Only 선택

• Next 버튼 클릭

Select Database Installation Option

Se	lect Database Installat	ion Option 19° ORACLE Database
1	Configuration Option	Select the type of database installation you want to perform.
- 🌳	Database Installation Q	
1	Install Type	Oracle <u>Real</u> Application Clusters database installation
ſ	Typical Installation	
Ŷ	Root script execution	
Ý	Prerequisite Checks	
Ý	Summary	
Ý	Install Product	
0	Finish	
•		(2)
	Help	< <u>Back</u> <u>Next</u> Install Cancel

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- Oracle Real Application Clusters database installation 선택
- Next 버튼 클릭

Select List of Nodes

个	Configuration Option	Select nodes (in addition to the local node) in the cluster where the installer should install Oracle RAC or Oracle RAC One.		
4	Database Installation Options	Node name		
0	Nodes Selection	✓ 1 ol7racl		
*	Install Type	2 ol7rac2		
4	Typical Installation			
Ý	Root script execution			
Ý	Prerequisite Checks			
Ý	Summary			
Ý	Install Product			
0	Finish			
	(
		SSH <u>c</u> onnectivity 2	select all	
		OS Username: oracle OS Password: ••••••		
		Reuse private and public keys existing in the user home)	
		Iest	Setup	
•		(4)		
	Help	< Back Next > Install	Cancel	

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19° ORACLE

- SSH connectivity 버튼 클릭
- OS Password : oracle 계정 비밀번호 입력
- Setup 버튼 클릭
- Next 버튼 클릭

Select Database Edition

Select Database Edition		19° Database
个个	Configuration Option	Which database edition do you want to install?
Ý	<u>Nodes Selection</u> Database Edition	Oracle Database 19c Enterprise Edition is a self-managing database that has the scalability, performance, high availability, and security features required to run the most demanding, mission-critical applications.
Ý	Installation Location	○ <u>S</u> tandard Edition 2
Ý	Operating System Groups	Oracle Database 19c Standard Edition 2 is a full-featured data management solution ideally
Ý	Root script execution	suited to the needs of medium-sized businesses.
Ý	Prerequisite Checks	
ģ	Summary	
4	Install Product	
9	Finish	
•		
	Help	< Back Next > Install Cancel

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- Enterprise Edition 선택
- Next 버튼 클릭



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• Next 버튼 클릭



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Privileged Operating System groups

	Configuration Option Database Installation Options Nodes Selection Database Edition Installation Location Operating System Groups Root script execution Prerequisite Checks Summary Install Product Finish	SYS privileges are required to create a database using operating system (OS) authentication. Membership in OS Groups grants the corresponding SYS grants the SYSDBA privilege. Database Administrator (OSDBA) group: Database Operator (OSOPER) group (Optional): Database Backup and Recovery (OSBACKUPDBA) group: Data Quard administrative (OSDGDBA) group: Encryption Key Management administrative (OSKMDBA) group: Real Application Cluster administrative (OSRACDBA) group: dba •
•	Help	2
	Help	< <u>Back</u> <u>Next</u> Install Cancel

- group 을 dba로 선택
- Next 버튼 클릭

Solution of the second	Step 7 of 11@ol7rac1				_		X
Root script execution co	onfiguration			19	C OR Datal	ACL base	. . .
Configuration Option Database Installation Option Nodes Selection Database Edition Installation Location Operating System Groups Root script execution Prerequisite Checks Summary Install Product Finish	During the software com can choose to have the one of the options below additional prerequisite c Automatically run com Use "root" us 2 Password : O Use <u>s</u> udo Program path : User name : Password :	figuration, certair installer perform v. The input speci- hecks. figuration scripts dential /usr/bin/sudo oracle	n operations have to these operations of fied will also be us	to be performed as automatically by sp sed by the installer	s "root" us becifying ir to perfor	Browse	r.
			6				
Help			< <u>B</u> ack	Next >	Install	Cano	el

- Automatically run configuration scripts 선택
- Password 입력
- Next 버튼 클릭

Perform Prerequisite Checks



• 설치 전 체크 테스트 화면

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Perform Prerequisite Checks

6	Configuration Option		Verification Result		
T	Database Installation Op	tions	Some of the minimum requirements for installation are not completed. Revi listed in the following table, and recheck the system.	ew and	e issues
Ý	Nodes Selection		Check A] Eix & Check Again] Show Failed 💙 📑 All Nodes		✓ Ignore A
Ŷ	Database Edition				
Ý	Installation Location		Checks	Status	Fixable
	Operating System Group	os		_	
	Root script executio	Dracle D	Database 19c Installer@ol7rac1 X	nored	No
Ţ	Drozogujejte Cho				
Y	Prerequisite Chee	-	[INS-13016] You have chosen to ignore some of the prerequisites	nored	No
Ŷ	Summary	<u>_</u> 1	for this installation. This may impact product configuration.		
Ý	Install Product				
6	Finish		Are you sure you want to ginue ?		
			Yes No Details		
			This test verifies the Single Client Access Name configuration. (more details	<u>s)</u>	
			Check Exiled on Neder: (el7vec) el7vec()		
•			(2)		
	<u>H</u> elp		< Back Next >	Install	Cancel

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19° Database

- Ignore 선택
- Next 버튼 클릭
- Yes 버튼 클릭

Summary



• Install 버튼 클릭

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Install Product

Ŷ	Configuration Option	Options	Progress 92%	
Ť	Nodes Selection	, optione	Saving Cluster Inventory	
Ŷ	Database Edition	L	Chalue -	
Ŷ	Installation Location		Status	
Ý	Operating System	4 Oracle Da	tabase 10c Installer@ol7rac1	Succeeded
5	Root script executio			Succeeded
T				Succeeded
Ŷ	Prerequisite Checks	A	Configuration scripts generated by the Installer need to be run as a	Succeeded
Ý	Summary	- <u></u>	privileged user (root). Installer will run these scripts using the	Succeeded
-	Install Product		privileged user credentials provided earlier.	Succeeded
Ť	mstanriodatt			Succeeded
0	Finish		Are you sure you want to continue ?	Succeeded
				In Progress
			<u>Y</u> es <u>N</u> o	Pending
	L			
			Details Revert All Rev	ert <u>R</u> etry <u>S</u> kip
•			19° ORACLE Database	
	Help		< <u>B</u> ack <u>N</u> ext >	Install Cancel

• Yes 버튼 클릭

19° DRACLE

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Finish

Finish		19° ORACLE Database
Configuration Option Database Installation Options Nodes Selection Database Edition Installation Location Operating System Groups Root script execution Prerequisite Checks Summary	The registration of Oracle Database was successful.	
Install Product Finish		
		(1)
Help	< <u>B</u> ack	Next > Install Close

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• Close 버튼 클릭

oracle 데이터베이스 구성 ui 구동 (노드 : node1 / 계정 : oracle)			
> 윈도우 x-trem으로 접속하여 실행 (mac os 에서는 설치 UI 화면 깨짐 / windows MobaXtrem 사용) su - oracle			
dbca			

Se	lect Database Operat	ion	19° ORACLE Database
•	Database Operation	1 Select the operation that you want to perform.	
Ý	Creation Mode		
Ý	Deployment Type	O Configure an existing database	
Ý	Database Identification	O Delete database	
Ý	Storage Option	O Manage templates	
Ý	Fast Recovery Option		
Ý	Database Options	O Manage Pluggable databases	
Ý	Configuration Options	O Oracle RAC database Instance management	
Ý	Management Options		
Ý	User Credentials		
Ý	Creation Option		
4	Summary		
Ý	Progress Page		
9	Finish		
		2	
	<u>H</u> elp	< <u>B</u> ack	Next : Einish Cancel

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- Create a databases 선택
- Next 버튼 클릭

Select Database Creation Mode

φ	Database Operation	O Typical configuration	
0	Creation Mode	<u>G</u> lobal database name:	orcl
ų	Deployment Type	<u>S</u> torage type:	Automatic Storage Management (ASM)
Ý	Database Identification	Database files location:	+DATA/{DB_UNIQUE_NAME}
Ý	Storage Option		
Ý	Fast Recovery Option	F <u>a</u> st Recovery Area (FRA):	+DATA Browse
Ý	Database Options	Database <u>c</u> haracter set:	AL32UTF8 - Unicode UTF-8 Universal character set 🔹
Ý	Configuration Options	Administrative password:	
Ý	Management Options	Confirm password:	
Ý	User Credentials	Communication of the second seco	
Ý	Creation Option	✔ Cr <u>e</u> ate as Container databa	se
Ý	Summary C	Pluggable database name:	
Ý	Progress Page		
Ó	Finish	 Advanced configuration 	
_			
	Help		< <u>B</u> ack <u>N</u> ext > Finish Cancel

- Advanced configuration 선택
- Next 버튼 클릭

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19° DRACLE

ielect Database Deploy	ment Type		19° 🗖	RACLE
Database Operation <u>Creation Mode</u> Deployment Type <u>Database Identification</u> Storage Option	Select the type of d <u>D</u> atabase type: C <u>o</u> nfiguration type:	atabase you want to create. Oracle Real Application Cluster (RA Admin Managed	C) datab 💌	
Fast Recovery Option	Select a template fo	or your database.		
Configuration Options	Templates that inclu database quickly. U	ude datafiles contain pre-created dat se templates without datafiles only w	abases. They allow you to cr when necessary, such as wh	reate a new en you need
Management Options	to change attributes	ike block size that cannot be altere	d after database creation.	Details
User Credentials	Data Warehouse		Yes	View details
Curatian Online	Custom Databas		No	View details
Creation Option	General Purpose	or Transaction Processing	Yes	View details
Summary				
Progress Page				
) Finish				
	Template location: / tes	u02/app/oracle/product/19.0.0/dbho	me_1/assistants/dbca/templa	a <u>C</u> hange
			2	
Help	-	< <u>B</u> a	ack Next > Einish	Cancel

- General Purpose or Transaction Processiong 선택
- Next 버튼 클릭

Select List of Nodes



• Next 버튼 클릭

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Specify Database Identification Details

Ŷ	Database Operation Creation Mode	Provide a unique databa Global database name, 1	se identifier information. An Oracle database is uniquely identified by a typically of the form "name.domain".
Ş	Deployment Type	<u>G</u> lobal database name:	ORA19
Ļ	Nodes Selection	<u>S</u> ID Prefix:	ORA19
0	Database Identification	Service name:	
ų	Storage Option		
Ş	Fast Recovery Option		
Ý	Database Options	Create as Container /	database
ģ	Configuration Options		
÷	Management Options	A Container databasi and it enables datab	e can be used for consolidating multiple databases into a single database, ase virtualization. A Container database (CDB) can have zero or more
ģ	User Credentials	pluggable databases	(PDB).
Ļ	Creation Option	✓ Use Local Undo ta	blespace for PDBs
÷	Prerequisite Checks	O C <u>r</u> eate an empty (Container database
4	Summary	 Cre<u>a</u>te a Containe 	r database with one or more PDBs
÷	Progress Page	Number of PDBe:	
9	Finish		
		PDB name:	odb
			(2)
	Help		< Back Next > Finish Cancel

- Create as Container database 해제
- Next 버튼 클릭

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19° DRACLE

Select Database Storage Option

```
19° ORACLE
```

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ö	Database Operation	O Use template file for database	e storage attributes		
J	Creation Mode	Storage type and location for	database files will be picke	ed up from the specified ter	nplate
Ĭ	Deployment Type	(General Purpose or Transact	tion Processing).		
Ĭ	Vedee Celection	 Use <u>following</u> for the database 	e storage attributes		
Ĭ	Nodes Selection	All the database files will be p	out at the specified location	below. You can customize	the name
Ţ	Database Identification	and location of each datafile i	n the subsequent screen.		
9	Storage Option	<u>D</u> atabase files storage type:	Automatic Storage Manag	jement (ASM) 🔹 🔻	
Ý	Fast Recovery Option	Database files location:	+DATA/{DB_UNIQUE_NAM	E}	Browse
Ý	Database Options	Ornala Managad files anti-	uill an able Oreals to autom	stically as anote the second	
Ý	Configuration Options	datafiles for simplified datab	ase management.	atically generate the hames	sorthe
Ý	Management Options	✓ Use Oracle-Managed Files	(OMF)	Multiplex redo logs and co	ntrol files
Ý	User Credentials			Toucher und and a	
Ý	Creation Option				
ģ	Prerequisite Checks				
Ý	Summary				
÷	Progress Page				
9	Finish				
				File location	variables
			(1		
	Help		Les Back	Next x Einich	Cancel
	Пеіћ			Truest > Lunau	Cancel

• Next 버튼 클릭

19° ORACLE. Database

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Ŷ	Database Operation	Choose the recovery options for the database.
4	Creation Mode	Specify East Recovery Area
4	Deployment Type	Recovery files storage type: Automatic Storage Management (ASM)
Ý	Nodes Selection	Fast Recovery Area: +DATA Browse
Ý	Database Identification	East Perovery Area eize:
Ý	Storage Option	MB W
•	Fast Recovery Option	Enable archiving Edit archive mode parameters
Ý	Database Options	
Ý	Configuration Options	
4	Management Options	
4	User Credentials	
4	Creation Option	
4	Prerequisite Checks	
4	Summary	
Ý	Progress Page	
9	Finish	
		\frown
	Help	< <u>Back</u> <u>Einish</u> Cancel

• Next 버튼 클릭

Select Oracle Data Vault Config Option

Ŷ	Database Operation	Configure Oracle Database <u>Y</u> ault
Ý	Creation Mode	Database Vault <u>o</u> wner:
Ý	Deployment Type	Password: Confirm password:
Ý	Nodes Selection	
Ý	Database Identification	<u>C</u> reate a separate account manager
4	Storage Option	Account manager:
Y	Fast Recovery Option	Pa <u>s</u> sword: Confi <u>r</u> m password:
0	Data Vault Option	
ų	Configuration Options	Configure Oracle Label Security
Ý	Management Options	Configure Oracle Label Security with OID
÷	User Credentials	
Ý	Creation Option	
Ý	Prerequisite Checks	
Ý	Summary	
Ý	Progress Page	
9	Finish	
	<u>H</u> elp	< <u>Back</u> <u>N</u> ext > <u>Finish</u> Cancel

• Next 버튼 클릭

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19° DRACLE

Atabase Configuration Assistant - Create 'O	RA19' database - Step 9 of 16@o	pl7rac1	-	
Specify Configuration Options			19° Data	base
 Database Operation Creation Mode Deployment Type Nodes Selection Database Identification Storage Option Fast Recovery Option Data Vault Options Management Options User Credentials Creation Option Prerequisite Checks Summary Progress Page Finish 	Sizing Character sets C sample schema configures the e SYSAUX tablespace. ample schemas to the database	Connection mode Sample Human Resources schema.	schemas The contents are	stored
Help		< <u>B</u> ack <u>N</u> ext	<u> </u>	Cancel

- Sample schemas 탭 클릭
- Add sample schemas to the database 선택
- Next 버튼 클릭

- • × 19° ORACLE Database

Specify Management Options

φ	Database Operation	Specify the management option	s for the database.		
4	Creation Mode	Run Cluster Verification Utility	(CVU) checks periodically		
Ý	Deployment Type	✓ Configure Enterprise Manage	r (EM) database express	•	
Ý	Nodes Selection	<u>E</u> M database express port:	5500		1
Ý	Database Identification	Register with Enterprise Mag	ager (EM) cloud control		4
Ŷ	Storage Option Fast Recovery Option	OMS host:]
4	Data Vault Option	O <u>M</u> S port:]
÷	Configuration Options	EM admin <u>u</u> sername:]
0	Management Options	EM <u>a</u> dmin password:]
Ý	User Credentials	ASMSNMD uper papeword]
Ý	Creation Option	Achieven <u>r</u> aser password.			
Ý	Prerequisite Checks				
Ý	Summary				
Ý	Progress Page				
Ó	Finish				
			(2)	
	<u>H</u> elp		< <u>B</u> ack	Next >	<u>Finish</u> Cancel

- Run Cluster Verification Utility (CVU) checks periodically 해제
- Next 버튼 클릭

호 Database Configuration Assistan	nt - Create 'ORA19' database - Step 11 of 16@ol7rac1 -	- 🗆	×
Specify Database User C	redentials 19° D	DRAC Database	LE.
 Database Operation Creation Mode Deployment Type Nodes Selection Database Identification Storage Option Fast Recovery Option 	You must specify passwords for the following user accounts in the new database for reasons. O Use different administrative passwords Password SYS SYSTEM Confirm password SYSTEM Confirm password SYSTEM Confirm password Confirm password SYSTEM Confirm password Confirm password SYSTEM Confirm password Confirm password Confirm password SYSTEM Confirm password Confirm password SYSTEM SYST	for security	
Data Vault Option Configuration Options <u>Management Options</u>			
Creation Option Prerequisite Checks Summary Progress Page Finish			
Help	2 C Back Next > Finis	h	ncel

오라클 관리자 계정 비밀번호 입력

- Use the same administrative passwrod for all accounts 선택
- 비밀번호 입력
- Next 버튼 클릭

Se	lect Database Creatio	n Option 19° Datab	ACLE.
0-0-0-0-0-	Database Operation Creation Mode Deployment Type Nodes Selection	Select the database creation options.	ire run in
0-	Database Identification Storage Option Fast Recovery Option Data Vault Option Configuration Options Management Options <u>User Credentials</u>	Save as a database template Template name: dbca_template_2023-12-11_03-35-3 Template location: /u02/app/oracle/product/19.0.0/dbhome_1/assistants/dbca/tb Description: Generate database creation scripts	Browse
	Creation Option Prerequisite Checks Summary Progress Page Finish	Destination directory: {ORACLE_BASE}/admin/{DB_UNIQUE_NAME}/scripts Following advanced configuration options can be used to configure initialization parameters All Initialization Parameters Customize Storage Lo	Browse
	Help	< <u>B</u> ack <u>N</u> ext > <u>F</u> inish	Cancel

– 🗆 X

• Next 버튼 클릭

Perform Prerequisite Checks



• 설치 전 체크 테스트 화면

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Perform Prerequisite Checks

0	Database Operation	Verification Result	
ļ	Creation Mode	Some of the minimum requirements for installation are not completed. Review and 1	he issues
Ý	Deployment Type	Check & Fix & Check Again Show Failed T 🗐 All Nodes	Ignore A
Ý	Nodes Selection		I Ignore x
Ý	Database Identification	Checks Status	Fixable
4	Storage Option	B Checks	
ļ	Fast Recovery Optic	ase Configuration Assistant@ol7rac1 X	No
4	Data Vault Option		N
Ý	Configuration Optio	[DBT-17001] You have chosen to ignore some of the prerequisites for this DBCA operation. This may impact DBCA operation.	NO
Ý	Management Option		
Ý	User Credentials	Are you sure you want to 3 nue ?	
• •	Creation Option	Yes No Details	
0	Prerequisite Chec		
Ý	Summary		
Ý	Progress Page		
9	Finish		
		This test verifies the Single Client Access Name configuration. (more details)	
		Check Failed on Nodes: [ol7rac1, ol7rac2]	
		(2)	
	Help	< <u>Back</u> <u>Mext</u> > <u>Finish</u>	Cancel

- Ignore 선택
- Next 버튼 클릭
- Yes 버튼 클릭

Summary



6	Database Operation		Da	tabase Configuration Assistant	
Ī	Creation Mode		÷	Global Settings	
Ť				Global database name: ORA19	
Ĩ	Deployment Type			Node List: ol7rac1,ol7rac2	
Ý	Nodes Selection			Configuration type: Oracle Real Application Cluster (RAC) database - Admin Managed	
÷	Database Identification			SID: ORA19	
- b	Storage Option			Create as Container database: No	24
	Fast Recovery Option			Database Files Storage Type: Automatic Storage Management (ASM)	
Ĩ	Data Vault Option			— Memory Configuration Type: Automatic Shared Memory Management	
Ť				Template name: General Purpose	
Ŷ	Configuration Options		÷	Initialization Parameters	
Ý	Management Options			audit_file_dest: {ORACLE_BASE}/admin/{DB_UNIQUE_NAME}/adump	
. 	User Credentials			audit_trail: db	
	Creation Option			cluster_database: true	
	Prerequisite Checks		-	compatible: 19.0.0	
H	Eummany			····· db_block_size: 8192 BYTES	
Ÿ	Summary			<pre>db_create_file_dest: +DATA/{DB_UNIQUE_NAME}/</pre>	
Ŷ	Progress Page			····· db_name: ORA19	
0	Finish			····· diagnostic_dest: {ORACLE_BASE}	
				dispatchers: (PROTOCOL=TCP) (SERVICE=ORA19XDB)	
				family:dw_helper.instance_mode: read-only	
				instance_number (ORA191): 1	
				····· instance_number (ORA192): 2	-
				1 Save Response File	
	<u>H</u> elp			< <u>Back</u> Next > <u>Finish</u> Canc	el
_					

• Finish 선택

Progress Page

~	Database Operation	110gress	
	Caratian Made	71%	
Ĭ	Creation Mode		
Ŷ	Deployment Type	Completing Database Creation : in Progress	
ý	Nodes Selection		
Ý	Database Identification	Status	
Ý	Storage Option	DB Creation	In Progress
9	Fast Recovery Option	Prepare for db operation	Succeeded
I	Data Vault Option	Copying database files Creating and starting Oracle instance	Succeeded
Y	Data vault Option	Creating cluster database views	Succeeded
Ý	Configuration Options	 Completing Database Creation 	In Progress
Ş	Management Options	Executing Post Configuration Actions	Pending
Y	User Credentials		
Ý	Creation Option		
Ý	Prerequisite Checks		
ģ		LIGTALE LUQUART ALL DAVART	
	Summary		<u>R</u> etry <u>S</u> kip
¢	Summary Progress Page	DBCA Log Location:	<u>R</u> etry <u>S</u> kip
0	Summary Progress Page Finish	DBCA Log Location: /u02/app/oracle/cfgtoollogs/dbca/ORA19/trace.log_2023-12-11_03-35-33PM	<u>R</u> etry <u>Skip</u>
0-0	Summary Progress Page Finish	DBCA Log Location: /u02/app/oracle/cfgtoollogs/dbca/ORA19/trace.log_2023-12-11_03-35-33PM Database Alert Log Location:	<u>R</u> etry <u>Skip</u>
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CHO	Summary Progress Page Finish	DBCA Log Location: /u02/app/oracle/cfgtoollogs/dbca/ORA19/trace.log_2023-12-11_03-35-33PM Database Alert Log Location: /u02/app/oracle/diag/rdbms/ora19/ORA191/trace/alert_ORA191.log	<u>R</u> etry <u>S</u> kip
CHO	Summary Progress Page Finish	DBCA Log Location: /u02/app/oracle/cfgtoollogs/dbca/ORA19/trace.log_2023-12-11_03-35-33PM Database Alert Log Location: /u02/app/oracle/diag/rdbms/ora19/ORA191/trace/alert_ORA191.log	<u>R</u> etry <u>Skip</u>
	Summary Progress Page Finish	DBCA Log Location: /u02/app/oracle/cfgtoollogs/dbca/ORA19/trace.log_2023-12-11_03-35-33PM Database Alert Log Location: /u02/app/oracle/diag/rdbms/ora19/ORA191/trace/alert_ORA191.log	<u>R</u> etry <u>S</u> kip

• 설치 진행 화면

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19° DRACLE

Database Configuration Assistant - Create 'ORA19' database - Step 16 of 16@ol7rac1

19° ORACLE Finish Database Operation Database creation complete. For details check the logfiles at: /u02/app/oracle/cfgtoollogs/dbca/ORA19. Creation Mode Database Information: Deployment Type Global Database Name: ORA19 System Identifier(SID) Prefix: ORA19 Server Parameter File name: +DATA/ORA19/PARAMETERFILE/spfile.270.1155311481 Database Identification EM Database Express URL: https://ol7rac-scan:5500/em Storage Option Note: All database accounts except SYS and SYSTEM are locked. Select the Password Management button to view a complete list of locked accounts or to manage the Fast Recovery Option database accounts. From the Password Management window, unlock only the accounts you will use. Oracle strongly recommends changing the default passwords immediately Data Vault Option after unlocking the account. Configuration Options Password Management... Management Options User Credentials Creation Option Prerequisite Checks Summary Progress Page Finish 1 Help < <u>B</u>ack $\underline{N}ext >$ Clise

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• Close 버튼 클릭

Oracle 데이터베이스 구성 완료



[grideol/racl ~]\$ crsctl stat res -t								
Name	Target	State	Server	State details				
Local Resources								
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	ONLINE	ONLINE	ol7rac2	STABLE				
ora.chad								
	ONLINE	ONLINE	ol7rac1	STABLE				
	ONLINE	ONLINE	ol7rac2	STABLE				
ora.net1.network								
	ONLINE	ONLINE	ol7rac1	STABLE				
	ONLINE	ONLINE	ol7rac2	STABLE				
ora.ons								
	ONLINE	ONLINE	ol7rac1	STABLE				
	ONLINE	ONLINE	ol7rac2	STABLE				
Cluster Resources								
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2	ONLINE	ONLINE	ol/racz	STABLE				
3 ONLINE OFFLINE STABLE								
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2	ONLINE	ONLINE	ol7rac2	Started, STABLE				
3	OFFLINE	OFFLINE		STABLE				
ora.asmnet1.asm	network	(ora.asmgroup))					
1	ONLINE	ONLINE	ol7rac1	STABLE				
2	ONLINE	ONLINE	ol7rac2	STABLE				
3	OFFLINE	OFFLINE		STABLE				
ora.cvu								
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ora.ol7rac1.vi	>							
1	ONLINE	ONLINE	ol7rac1	STABLE				
ora.ol7rac2.vi	2							
1	ONLINE	ONLINE	ol7rac2	STABLE				
ora.ora19.db				A				
1	ONLINE	ONLINE	ol7rac1	Open,HOME=/u02/app/o racle/product/19.0.0				
~	0111 7115	010 7015	17	/dbhome_1,STABLE				
2	ONLINE	ONLINE	ol7rac2	Open, HOME=/u02/app/o				
				/dbbame_1_STIPLE				
				/dbnome_1,STABLE				
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- ora19.db에 항목에 ol7rac1, ol7rac2 노드의 상태가 ONLINE인지 확인
- 설치 완료

RAC 테스트 구성

Oracle RAC 데이터베이스 구성후 테스트는 1번 노드와 2번 노드에서 각각 insert 쿼리를 실행하고 양방향 저장 및 조회가 정상 적으로 가능한지 확인



ol7rac1

ol7rac2

- 1. 1번 노드에서 테스트 테이블 member_info 생성
- 2.1번 노드에서 테이블 데이터 조회, 데이터 없음 확인
- 3. 1번 노드에서 insert 데이터 kim
- 4.1번 노드에서 데이터 조회, 입력된 kim 데이터 확인
- 5. 2번 노드에서 데이터 조회, 입력된 kim 데이터 확인
- 6. 2번 노드에서 insert 데이터 lee
- 7. 2번 노드에서 데이터 조회, 입력된 kim, lee 데이터 확인
- 8.1번 노드에서 데이터 조회, 입력된 kim, lee 데이터 확인

Oracle RAC 구성 완료

ABLESTACK Online Docs