

Overview on Oracle Database Technologies and Options

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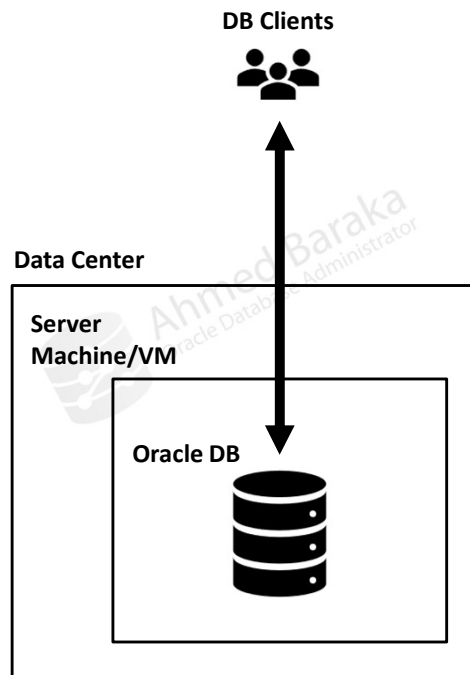
Objectives

In this lecture, you will learn how to perform the following:

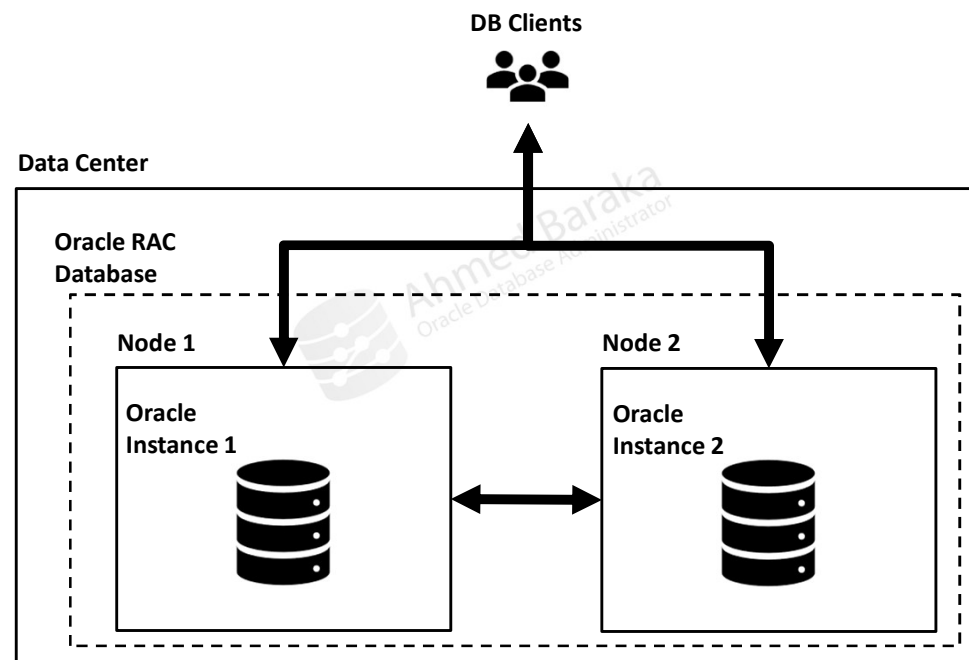
- Describe Oracle database technologies, options, and management packs.



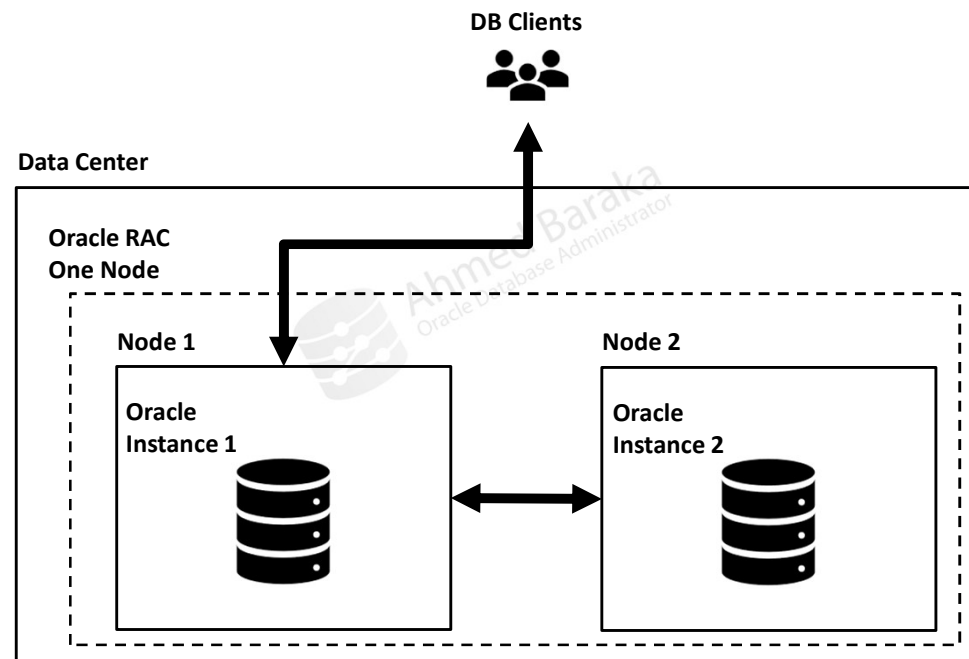
Oracle Database Single Instance Architecture



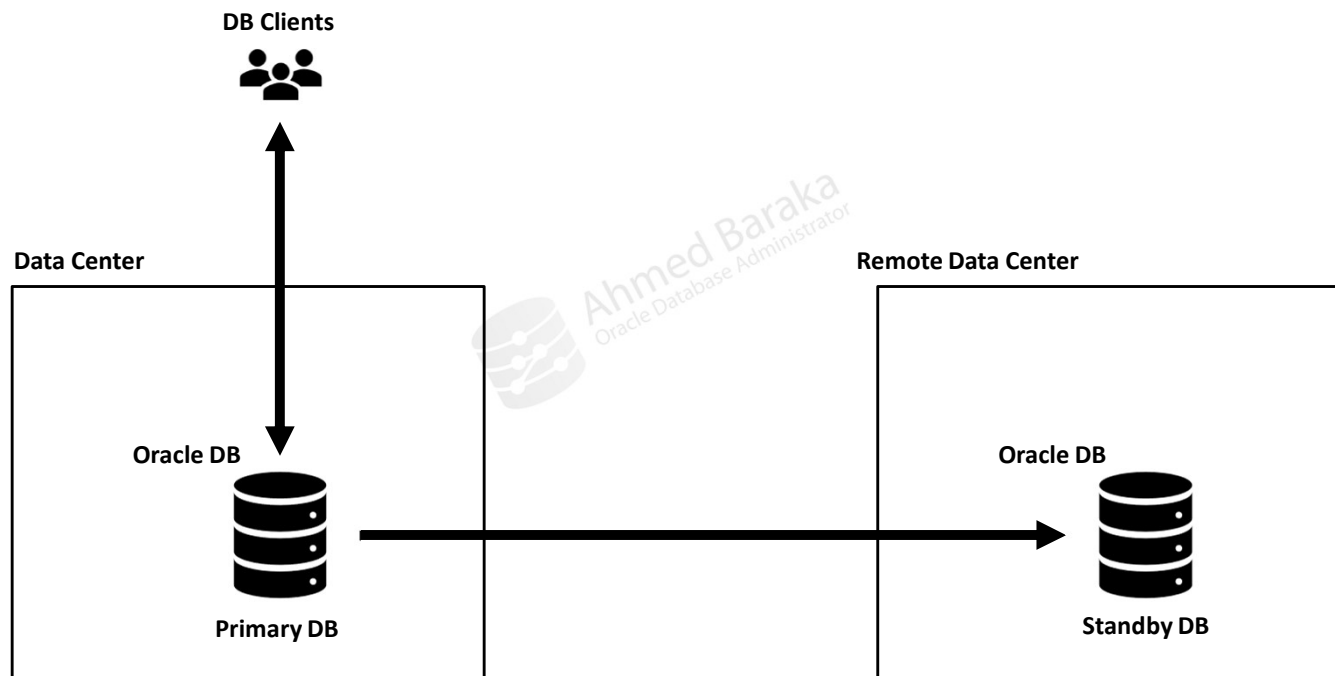
Oracle Database Real Application Cluster (RAC)



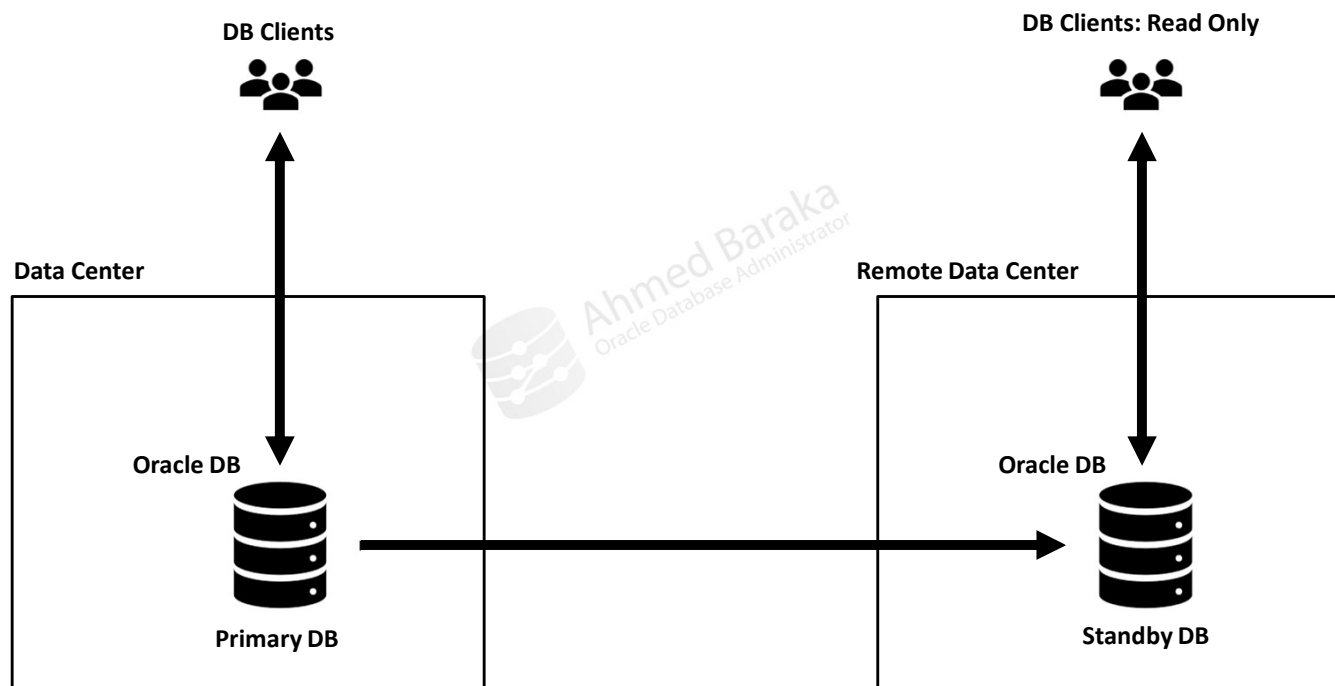
Oracle Database RAC One Node



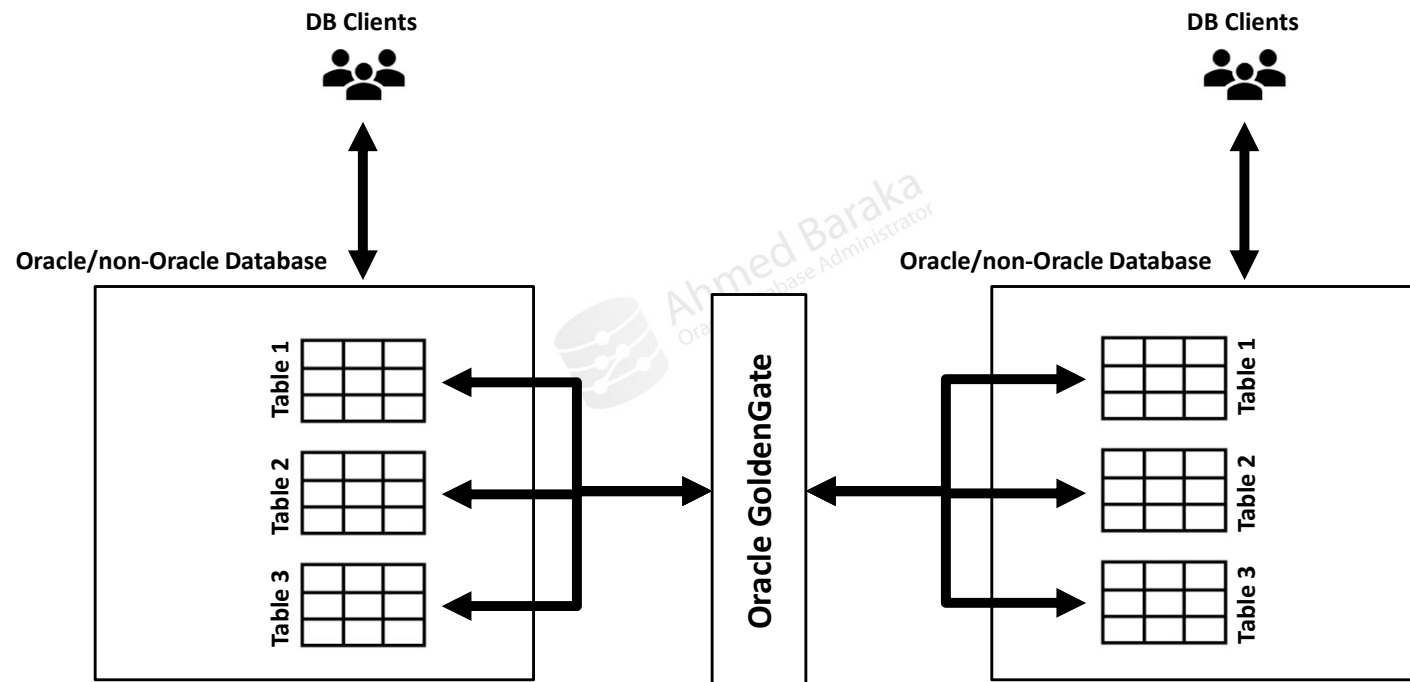
Oracle Database Data Guard Configuration



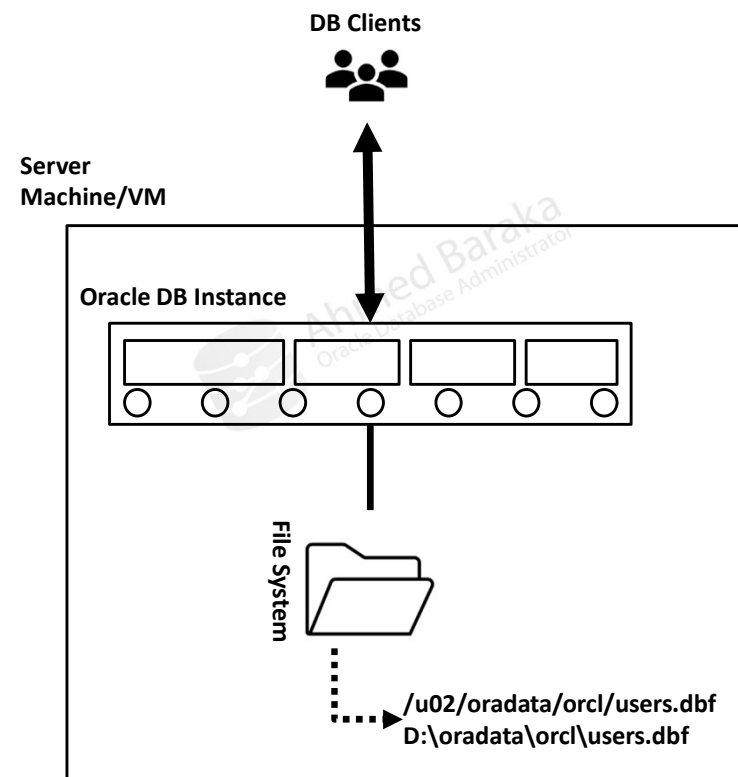
Oracle Database Active Data Guard



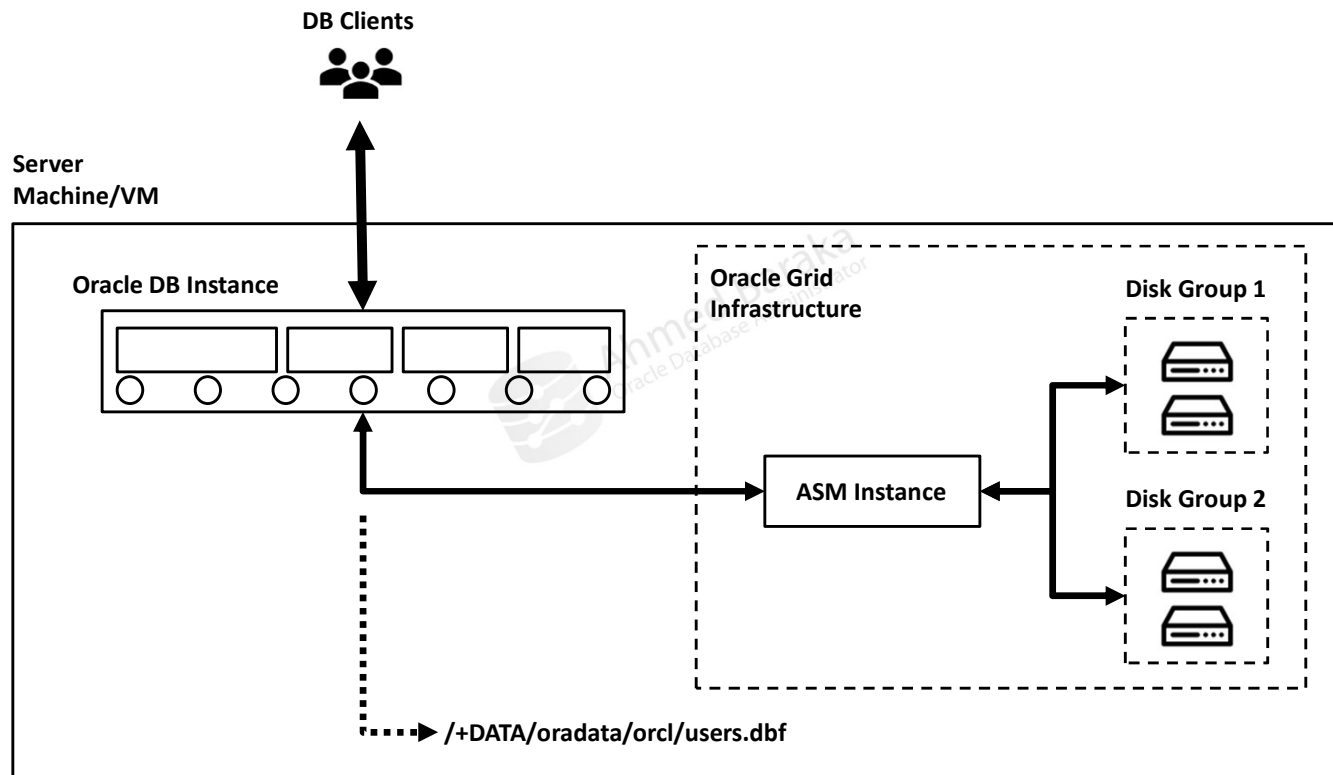
Oracle GoldenGate



Oracle Database with LVM (non-ASM)



Oracle Automatic Storage Management (ASM)



Oracle Database Options and Technologies

Requirement	Database Option/Technology
Hardware failure tolerance (active-active)	Real Application Cluster (RAC)
Hardware failure tolerance (active-passive)	RAC One Node
Disaster recovery (DR)	Data Guard
Disaster recovery (DR) with accessible Standby	Active Data Guard
Replication	Oracle GoldenGate (separate product)
Storage Management (HDD failure tolerance)	Automatic Storage Management (ASM)

Oracle Database Other Options

- Oracle Multitenant
- Oracle Database In-Memory
- Oracle Database Vault
- Oracle Label Security
- Oracle On-Line Analytical Processing (OLAP)
- Oracle Partitioning
- Oracle Real Application Testing
- Oracle Spatial and Graph
- Oracle Application Express (APEX)

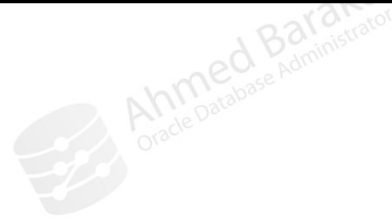
Oracle Management Packs

- Oracle Diagnostics Pack
- Oracle Tuning Pack
- Oracle Cloud Management Pack for Oracle Database
- Oracle Database Lifecycle Management Pack for Oracle Database
- Oracle Data Masking and Subsetting Pack

Oracle Database and Machine Learning

- Empowers enterprise users with SQL, R, and Python
- For more information:

<https://www.oracle.com/ae/a/tech/docs/technical-resources/oml-technical-brief.pdf>



Summary

In this lecture, you should have learnt how to perform the following:

- Describe Oracle database technologies, options, and management packs.

