

3 Creating an Oracle Database by Using DBCA

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Objectives

After completing this lesson, you should be able to do the following:

- Create a database by using the Database Configuration Assistant (DBCA)
- Generate database creation scripts by using DBCA
- Manage database design templates by using DBCA
- Configure database options by using DBCA

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Planning the Database

As a DBA, you must plan:

- The logical storage structure of the database and its physical implementation:
 - How many disk drives do you have? What type of storage is being used?
 - How many data files will you need? (Plan for growth.)
 - How many tablespaces will you use?
 - What types of information will be stored?
 - Are there any special storage requirements due to type or size?
- Overall database design
- Database backup strategy



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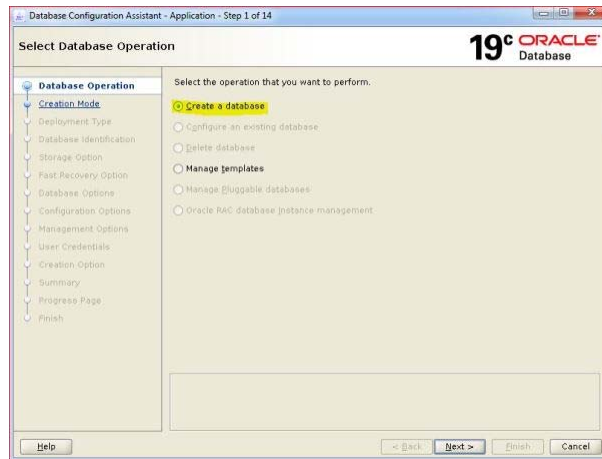
Types of Databases

- General purpose or transaction processing:
 - Online transaction processing (OLTP) system, for example a retail billing system for a software house or a nursery
- Custom:
 - Multipurpose database (perhaps combined OLTP and data warehouse functionality)
- Data warehouse:
 - Research and marketing data
 - State or federal tax payments
 - Professional licensing (doctors, nurses, and so on)

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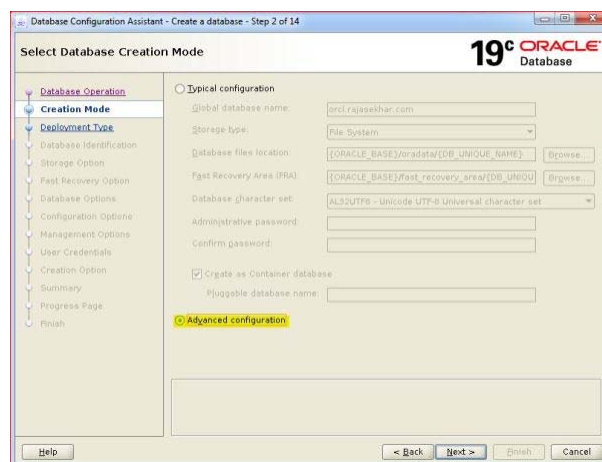
Using the DBCA to Create a Database



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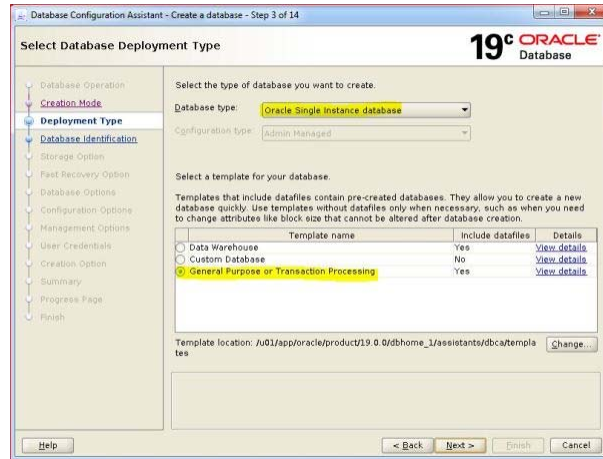
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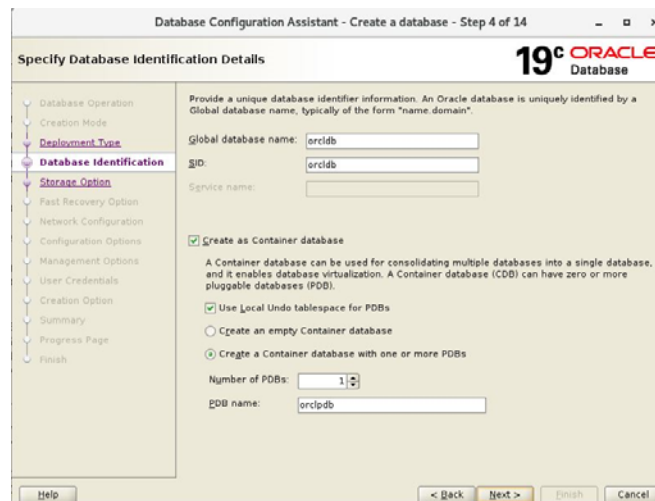
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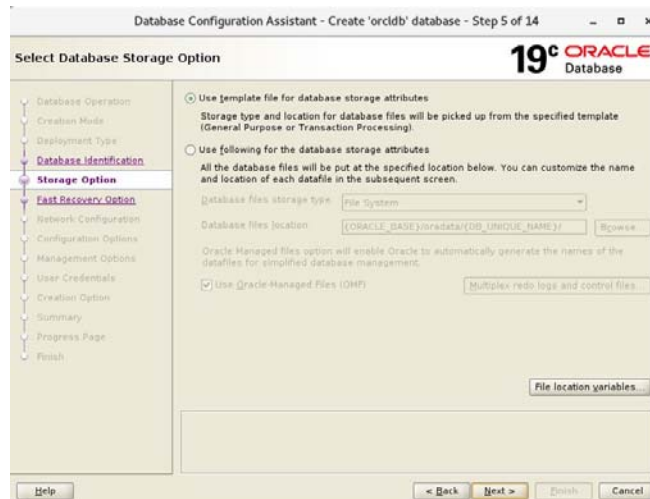
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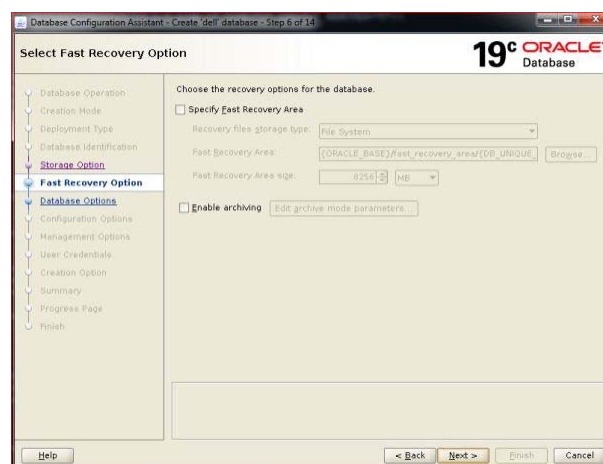
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Database Configuration Assistant - Create 'orclpdb' database - Step 7 of 14

Specify Network Configuration Details **19c ORACLE Database**

Database Operation
Creation Mode
Deployment Type
Database Identification
Storage Option
Fast Recovery Option
Network Configuration
Configuration Options
Management Options
User Credentials
Creation Option
Summary
Progress Page
Finish

Listener selection

Listeners from current Oracle home are listed below. Specify the listener name and port to create a new listener in current Oracle home.

	Name	Port	Oracle home	Status
<input checked="" type="checkbox"/>	LISTENER	1521	/u01/app/oracle/product/19.3.0/db_1	Up

☐ Create a new listener

Listener name:

Listener port:

Oracle home:

Help < Back Next > Finish Cancel

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Database Configuration Assistant - Create 'dell' database - Step 8 of 15

Select Oracle Data Vault Config Option **19c ORACLE Database**

Database Operation
Creation Mode
Deployment Type
Database Identification
Storage Option
Fast Recovery Option
Network Configuration
Data Vault Option
Configuration Options
Management Options
User Credentials
Creation Option
Summary
Progress Page
Finish

☐ Configure Oracle Database Vault

Database Vault generator:

Password: Confirm password:

☐ Create a separate account manager

Account manager: Password: Confirm password:

☐ Configure Oracle Label Security

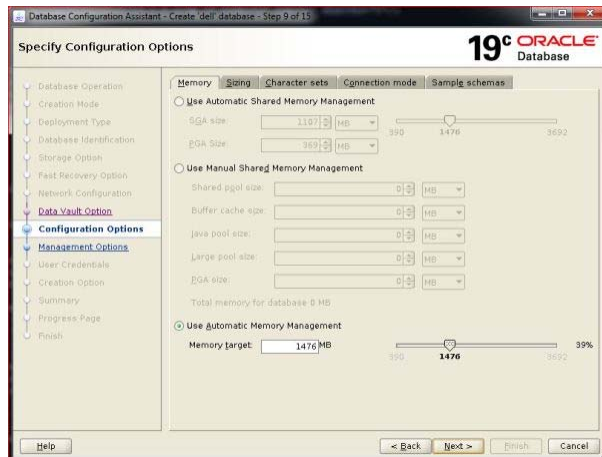
☐ Configure Oracle Label Security with OLP

Help < Back Next > Finish Cancel

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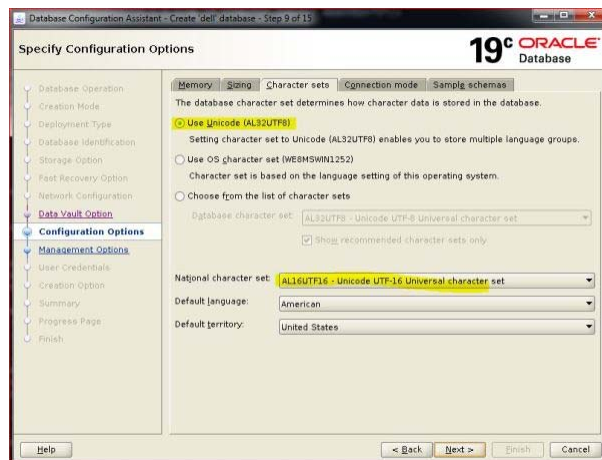
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Using the DBCA to Create a Database

The screenshot shows the 'Specify Management Options' window in the Database Configuration Assistant (DBCA) for Oracle 19c Database. The window title is 'Database Configuration Assistant - Create 'dbf' database - Step 10 of 11'. The left sidebar contains a tree view with the following items: Database Operation, Creation Mode, Deployment Type, Database Identification, Storage Option, Fast Recovery Option, Network Configuration, Data Vault Option, Configuration Options (highlighted), Management Options (selected), User Credentials, Creation Option, Summary, Progress Page, and Finish. The main area is titled 'Specify the management options for the database.' and contains two checkboxes: 'Configure Enterprise Manager (EM) database express' (checked) and 'Register with Enterprise Manager (EM) cloud control' (unchecked). Below the checkboxes are input fields for 'EM database express port' (set to 5500), 'OMS host', 'OMS port', 'EM admin username', and 'EM admin password'. At the bottom, there are buttons for 'Help', '< Back', 'Next >', 'Finish', and 'Cancel'.

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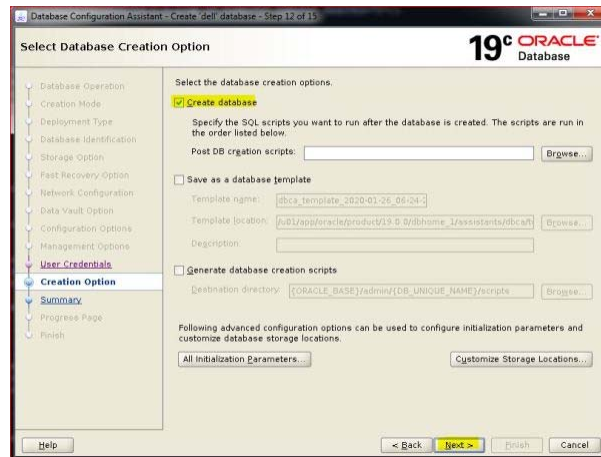
Using the DBCA to Create a Database

The screenshot shows the 'Specify Database User Credentials' window in the Database Configuration Assistant (DBCA) for Oracle 19c Database. The window title is 'Database Configuration Assistant - Create 'dbf' database - Step 11 of 11'. The left sidebar contains a tree view with the following items: Database Operation, Creation Mode, Deployment Type, Database Identification, Storage Option, Fast Recovery Option, Network Configuration, Data Vault Option, Configuration Options, Management Options, User Credentials (selected), Creation Option, Summary, Progress Page, and Finish. The main area is titled 'Specify Database User Credentials' and contains a message: 'You must specify passwords for the following user accounts in the new database for security reasons.' Below the message are two radio buttons: 'Use different administrative passwords' (unchecked) and 'Use the same administrative password for all accounts' (checked). The 'Use different administrative passwords' option has input fields for 'SYS' and 'SYSTEM' with 'Password' and 'Confirm password' labels. The 'Use the same administrative password for all accounts' option has a single 'Password' input field. At the bottom, there are buttons for 'Help', '< Back', 'Next >', 'Finish', and 'Cancel'.

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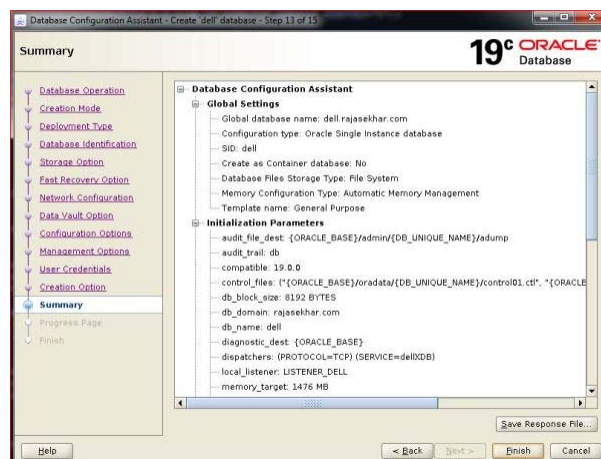
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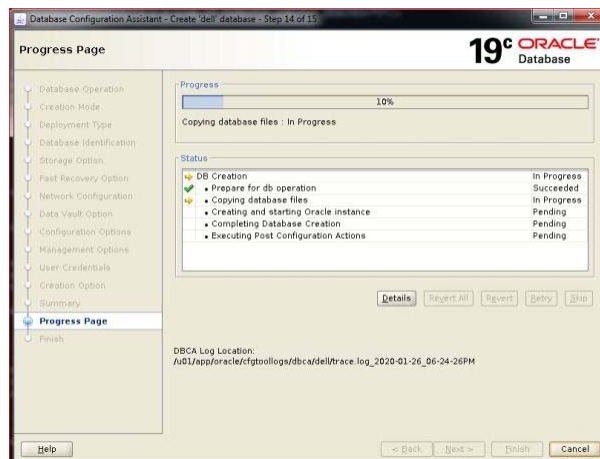
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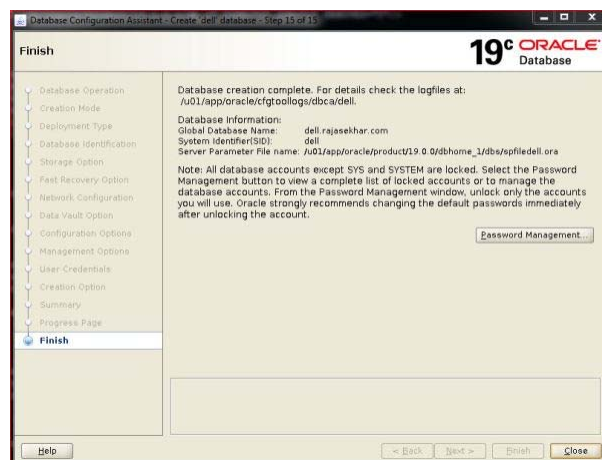
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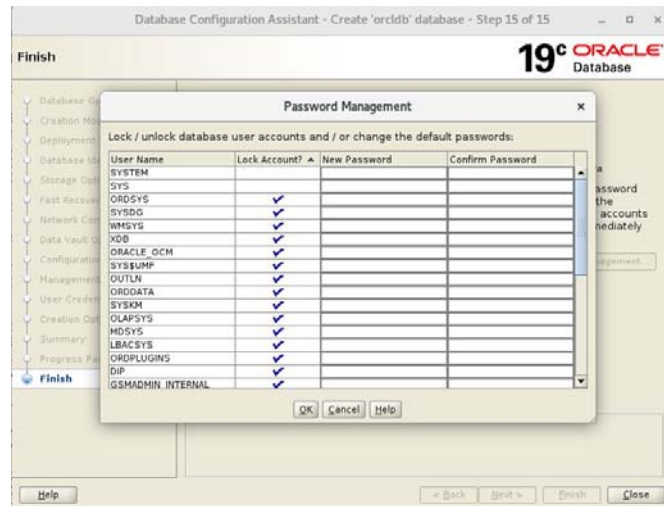
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Summary

In this lesson, you should have learned how to:

- Create a database by using the Database Configuration Assistant (DBCA)

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