

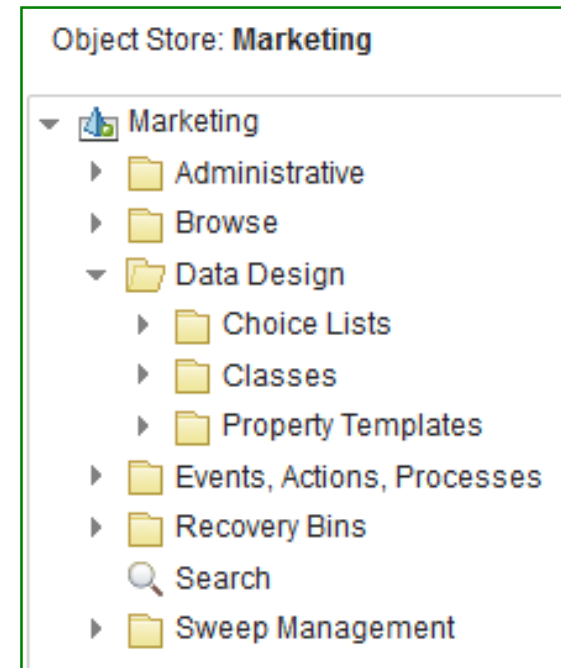
Build a FileNet Content Repository

Unit objectives

- Create JDBC data sources
- Create an object store
- Add an object store as a repository to an IBM Content Navigator desktop

What is an Object Store?

- A repository for storing objects
 - Object metadata is in a database.
 - Content can be stored in the database or it can be stored in storage areas:
 - File storage area
 - Fixed storage area
 - Advanced storage area
 - Content cache area
- Sample tasks that are done in an object store:
 - Configure security and storage policies.
 - Create objects to store data.
 - Configure events and processes.
 - Browse to the objects.
 - Search for documents and folders.
 - Manage Sweeps.
 - Configure Index.



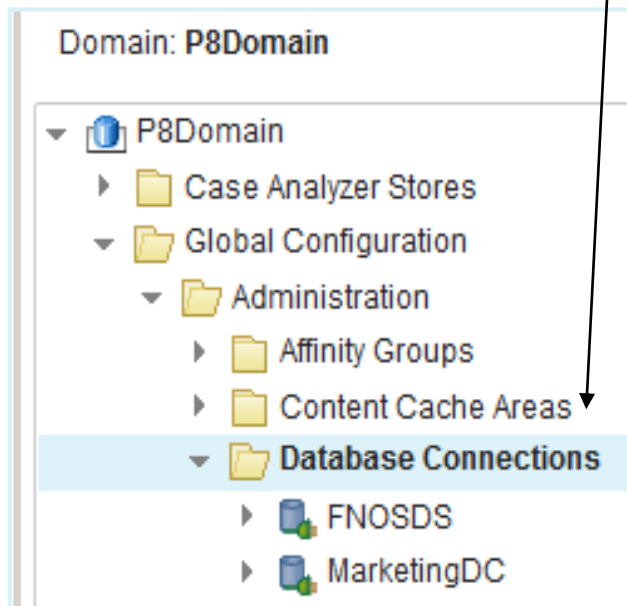
Object store database

- Object stores can share a database, but they must use separate schemas.
- If you require a separate database, a database administrator can create one that meets the documented requirements.
 - Example: DB2 for Linux, UNIX, and Windows server
 - Use SERVER authentication.
 - Set the DB2 code set to UTF-8.
 - Set the page size to 32 KB.
- See IBM Knowledge Center for database requirements:
 - Microsoft SQL
 - Oracle
 - DB2 for z/OS
 - DB2 for Linux, UNIX, and Windows server
- GCD database
 - Contains domain configuration properties
 - Not usually shared with object stores

What is a database connection object?

A database connection identifies the data source pair that provides the Java Database Connectivity to the database.

Create a database connection in Administration Console for Content Platform Engine.



Database Connection: FNOSDS

General Properties Object Stores Legacy Isolated

A database connection identifies the XA and non-XA data source pair that provides the Java Database Connectivity (JDBC) connection to the database. [Learn more...](#)

* Display name: FNOSDS

* JNDI data source: ? FNOSDS

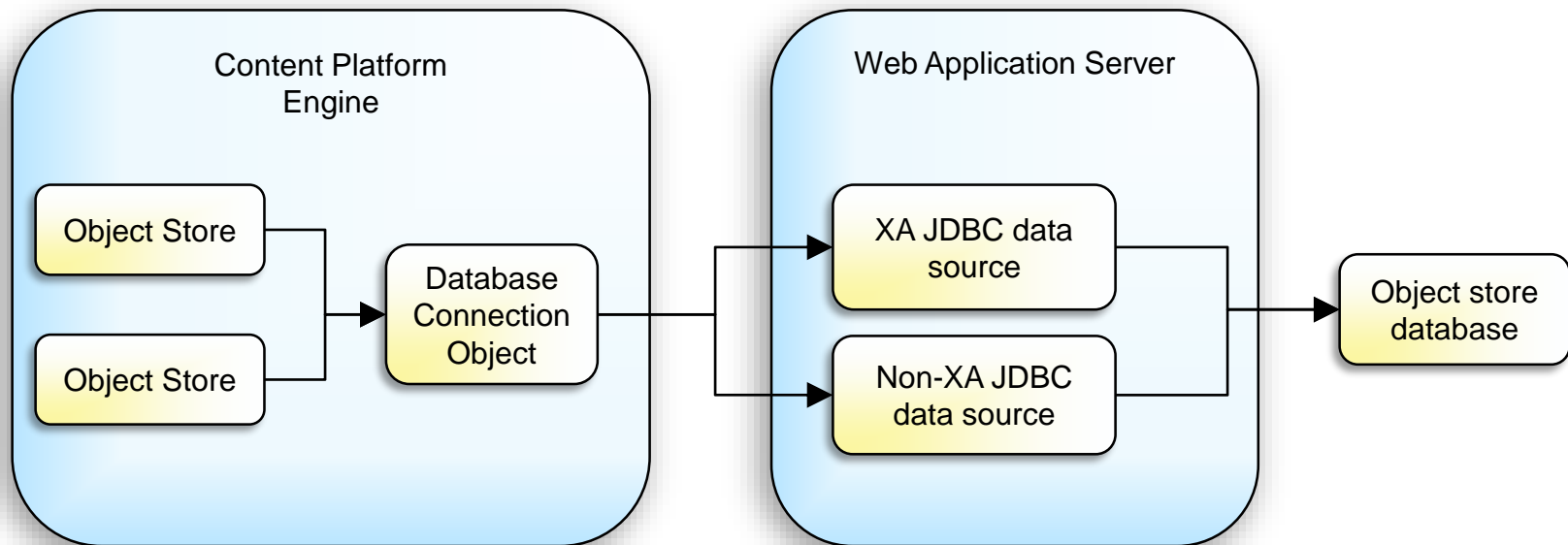
* JNDI XA data source: ? FNOSDSXA

Site: ? Initial Site

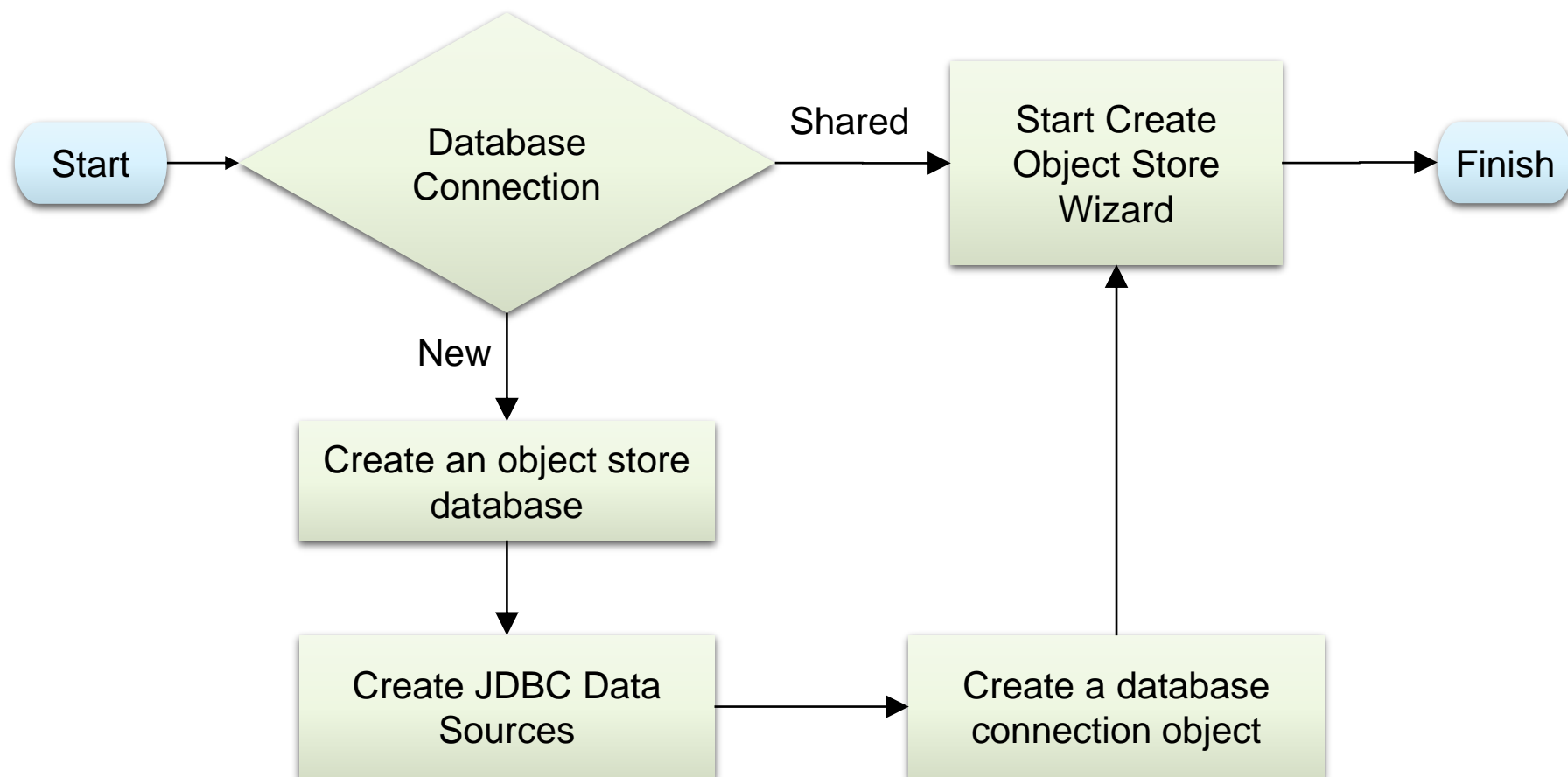
It is specific to a site.

Object store and database connectivity

- The JDBC data source information is used by Content Platform Engine to connect to global configuration database (GCD) and object store databases.
- You must configure two JDBC data sources for each database connection object.
 - XA
 - Non-XA



Object Store creation overview

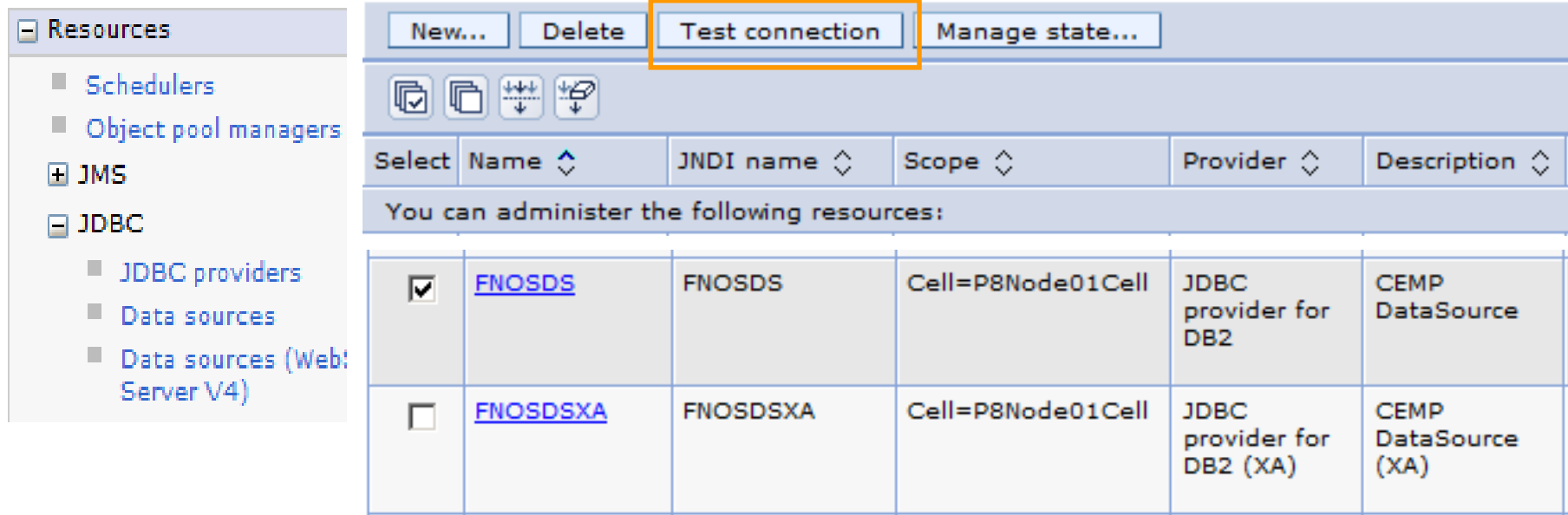


What is IBM FileNet Configuration Manager?

- IBM FileNet Configuration Manager is a tool that automates FileNet Content Manager configuration tasks.
- Used for configuring FileNet P8 settings:
 - Data sources that are required for object stores.
 - JDBC connections
 - LDAP connections
 - Bootstrap properties
- You can use Configuration Manager to generate one or more unique Content Platform Engine configuration profiles.
 - A profile is a collection of information that is required to configure and deploy new or upgraded Content Platform Engine instances.
 - Example: **CEConfig.cfgp**
 - You can use profiles as templates for configuration.

Testing JDBC Data Sources

- Use the WebSphere Application Server administrative console
`http://<ServerName>:9043/ibm/console/logon.jsp`
 - Resources > JDBC > Data sources



The screenshot displays the WebSphere Application Server administrative console interface. On the left, a navigation tree shows the path: Resources > JDBC > Data sources. The main panel shows a table of JDBC data sources. The 'Test connection' button is highlighted with an orange box. Below the table, a message states: 'You can administer the following resources:'.

Select	Name	JNDI name	Scope	Provider	Description
<input checked="" type="checkbox"/>	FNO SDS	FNO SDS	Cell=P8Node01Cell	JDBC provider for DB2	CEMP DataSource
<input type="checkbox"/>	FNO SDSXA	FNO SDSXA	Cell=P8Node01Cell	JDBC provider for DB2 (XA)	CEMP DataSource (XA)







Sharing Database Connections

Multiple object stores or isolated regions in a single database can share a database connection.

- Benefits

- Reduces the application server administrative load.
- Reduces the database administrator load.
- Requires fewer data sources and database connections.
- Provides a way to create new object stores without the intervention of the Database Administrator and the Application Server Administrator.

Database Connection: FNO SDS

General	Properties	Object Stores
Name	Database Schema Name	
 LoanProcess	LoanProcess	
 LoanProcessQA	LoanProcessQA	
 P8ConfigObjectStore	OSDBUSER	
 Sales	Sales	
 SalesQA	SalesQA	
 SalesSBx	SalesSBx	

Each object store uses a unique schema name.

Prepare to Create an Object Store

- Plan the number of object stores that are needed for the following tasks:
 - Supports enterprise IT organizational structure
 - Simplifies security for many document types and deep folder structures
 - Improve search performance
- Determine one or more file storage areas
 - Improves retrieval performance for large documents.
- Consider which database type you use.
 - All the object stores that you create must be based on the same database type.
- Determine database connections.
- Decide which users and groups work with the object store and their rights.
 - Adding users and groups after you create an object store is time-consuming.

Add-ons for an Object Store

- You can configure a number of AddOns.
 - Select only needed Add-ons during Object Store creation.
- Default Add-on
 - Base Content Engine Extensions Add-ons are selected by default.
- Custom Add-ons
 - You can create custom Add-ons and install it on the Content Platform Engine.
- Workplace Base Extensions and Workplace XT Extensions are required for IBM Content Navigator.

5.2.1 Base Application Extensions
5.2.1 Base Content Engine Extensions
5.2.1 Process Engine Extensions
5.2.1 Stored Search Extensions
5.2.1 Thumbnail Extensions
5.2.1 Workplace Base Extensions
5.2.1 Workplace Templates Extensions
5.2.1 Workplace XT Extensions

IBM Content Navigator

- IBM Content Navigator is a client for FileNet P8 Platform.
 - Provides a console for users to work with content.
 - Replaces IBM FileNet Workplace XT (IBM FileNet P8 5.2.1 and later).
- Connects to several types of repositories:
 - IBM Content Manager Enterprise Edition repositories
 - IBM Content Manager OnDemand repositories
 - IBM FileNet P8 repositories
 - OASIS Content Management Interoperability Services (CMIS) repositories
- For users to access the object store in IBM Content Navigator, you must configure the object store as a repository.
 - Connect IBM Content Navigator to the repository.
 - Associate the repository with an IBM Content Navigator desktop.
 - The object store must include 5.2.1 Workplace and Workplace XT extensions

Instructor demonstration

- Create a data source for an object store.



Unit summary

- Create JDBC data sources
- Create an object store
- Add an object store as a repository to an IBM Content Navigator desktop

Exercise: Build a FileNet Content Repository

Exercise objectives

- Create JDBC data sources for an object store.
- Create an object store.
- Add an object store as a repository to an IBM Content Navigator desktop.

