

EDB377

Fast Track to SAP Replication Server Administration

COURSE OUTLINE

Course Version: 15

Course Duration: 5 Day(s)

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Typographic Conventions

American English is the standard used in this handbook.

The following typographic conventions are also used.

This information is displayed in the instructor's presentation	
Demonstration	
Procedure	
Warning or Caution	
Hint	
Related or Additional Information	
Facilitated Discussion	
User interface control	<i>Example text</i>
Window title	<i>Example text</i>

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Course Overview

TARGET AUDIENCE

This course is intended for the following audiences:

- Data Consultant
- Development Consultant
- System Administrator
- Technology Consultant

Lesson 1: Identifying Replication Concepts

Lesson Objectives

After completing this lesson, you will be able to:

- Describe replication
- Define Replication Server
- Identify Replication Server concepts
- Differentiate replication methods

Lesson 2: Defining Replication Server Architecture

Lesson Objectives

After completing this lesson, you will be able to:

- Identify Replication Server architecture
- Identify components of a Replication Server environment

Lesson 3: Identifying Replication Architectures

Lesson Objectives

After completing this lesson, you will be able to:

- Identify replication architectures

Lesson 1: Installing Replication Server

Lesson Objectives

After completing this lesson, you will be able to:

- Prepare for Replication Server installation
- Install Replication Server

Lesson 2: Creating a Replication Server

Lesson Objectives

After completing this lesson, you will be able to:

- Create a Replication Server

Lesson 3: Adding a Database to the Replication System

Lesson Objectives

After completing this lesson, you will be able to:

- Add a database with rs_init

Lesson 4: Setting Up the Replication Server Environment

Lesson Objectives

After completing this lesson, you will be able to:

- Set up the Replication Server environment

Lesson 1: Configuring Routes

Lesson Objectives

After completing this lesson, you will be able to:

- Define routes
- Identify the route types
- Configure routes

Lesson 1: Enabling the Gateway

Lesson Objectives

After completing this lesson, you will be able to:

- Enable the gateway

Lesson 2: Configuring a Replication Server

Lesson Objectives

After completing this lesson, you will be able to:

- Configure parameters and connections
- Configure Replication Server memory

Lesson 3: Managing the Stable Device

Lesson Objectives

After completing this lesson, you will be able to:

- Manage the stable device

Lesson 4: Applying Replication Server Security

Lesson Objectives

After completing this lesson, you will be able to:

- Apply Replication Server security

Lesson 5: Enabling Command Auditing

Lesson Objectives

After completing this lesson, you will be able to:

- Enable command auditing

Lesson 6: Managing Truncation Points

Lesson Objectives

After completing this lesson, you will be able to:

- Manage truncation points

Lesson 7: Using the Replication Server System Database (RSSD)

Lesson Objectives

After completing this lesson, you will be able to:

- Describe the RSSD
- Manage the ASE RSSD
- Manage the embedded RSSD

Lesson 1: Creating Table Replication Definitions

Lesson Objectives

After completing this lesson, you will be able to:

- Create table replication definitions

Lesson 2: Modifying Replication Definitions

Lesson Objectives

After completing this lesson, you will be able to:

- Modify replication definitions

Lesson 3: Troubleshooting Replication Definitions

Lesson Objectives

After completing this lesson, you will be able to:

- Troubleshoot replication definitions

Lesson 4: Marking Tables for Replication

Lesson Objectives

After completing this lesson, you will be able to:

- Mark tables for replication

Lesson 5: Using Subscriptions

Lesson Objectives

After completing this lesson, you will be able to:

- Identify subscription terminology
- Use table subscription commands
- Check subscriptions
- Drop subscriptions

Lesson 6: Using Materialization

Lesson Objectives

After completing this lesson, you will be able to:

- Use materialization

Lesson 7: Using Bulk Nonatomic Materialization

Lesson Objectives

After completing this lesson, you will be able to:

- Use bulk nonatomic materialization

Lesson 8: Troubleshooting Subscriptions

Lesson Objectives

After completing this lesson, you will be able to:

- Troubleshoot subscriptions

Lesson 9: Creating Publications

Lesson Objectives

After completing this lesson, you will be able to:

- Create publications
- Use publication subscriptions

Lesson 1: Describing Warm Standby Replication

Lesson Objectives

After completing this lesson, you will be able to:

- Describe warm standby replication
- Identify warm standby behaviors
- Differentiate replication types in warm standby

Lesson 2: Initializing Warm Standby

Lesson Objectives

After completing this lesson, you will be able to:

- Initialize warm standby
- Create a logical connection to the active database
- Configure the active database RepAgent thread for warm standby
- Enable automatic warm standby in the active database
- Create the standby database
- Reconcile logins
- Grant maintenance user permissions
- Choose a materialization method
- Use the dump marker option
- Add the standby database to the RSS
- Materialize the standby database
- Resume connections
- Enable replication in the standby

Lesson 3: Synchronizing Logins

Lesson Objectives

After completing this lesson, you will be able to:

- Synchronize logins

Lesson 4: Using Switchover

Lesson Objectives

After completing this lesson, you will be able to:

- Use switchover
- Set up client switchover
- Switch back to the original active database

Lesson 5: Administering Warm Standby

Lesson Objectives

After completing this lesson, you will be able to:

- Administer warm standby

Lesson 6: Using Warm Standby and Regular Replication

Lesson Objectives

After completing this lesson, you will be able to:

- Use warm standby and regular replication
- Use replication definitions in warm standby
- Identify replication support for altered tables

Lesson 1: Using MSA

Lesson Objectives

After completing this lesson, you will be able to:

- Set Up MSA
- Identify useful commands and utilities
- Integrate MSA
- Tune MSA

Lesson 1: Examining Control Center for Replication

Lesson Objectives

After completing this lesson, you will be able to:

- Describe the control center

Lesson 2: Setting Up the Control Center

Lesson Objectives

After completing this lesson, you will be able to:

- Set up the control center

Lesson 3: Configuring the Control Center

Lesson Objectives

After completing this lesson, you will be able to:

- Configure the control center

Lesson 4: Monitoring Latency

Lesson Objectives

After completing this lesson, you will be able to:

- Monitor latency

Lesson 5: Collecting Statistics

Lesson Objectives

After completing this lesson, you will be able to:

- Collect statistics

Lesson 6: Using Alerts

Lesson Objectives

After completing this lesson, you will be able to:

- Create alerts

Lesson 1: Defining Stored Procedure Replication

Lesson Objectives

After completing this lesson, you will be able to:

- Define stored procedure replication

Lesson 2: Using Applied Functions

Lesson Objectives

After completing this lesson, you will be able to:

- Use applied functions to replicate execution of stored procedures

Lesson 3: Using Request Functions

Lesson Objectives

After completing this lesson, you will be able to:

- Use request functions to replicate execution of stored procedures

Lesson 4: Troubleshooting Stored Procedure Replication

Lesson Objectives

After completing this lesson, you will be able to:

- Troubleshoot stored procedure replication

Lesson 5: Dropping Objects

Lesson Objectives

After completing this lesson, you will be able to:

- Drop objects

Lesson 1: Explaining Heterogeneous Replication

Lesson Objectives

After completing this lesson, you will be able to:

- Summarize heterogeneous replication
- Identify heterogeneous Replication Agents
- Identify heterogeneous replication limitations

Lesson 2: Configuring a Heterogeneous Replication System

Lesson Objectives

After completing this lesson, you will be able to:

- Describe heterogeneous replication configuration

Lesson 3: Managing Heterogeneous Warm Standby Support

Lesson Objectives

After completing this lesson, you will be able to:

- Manage heterogeneous warm standby support

Lesson 1: Identifying Troubleshooting Recommendations for Replication Server

Lesson Objectives

After completing this lesson, you will be able to:

- Identify general troubleshooting recommendations for Replication Server

Lesson 2: Monitoring Replication Server Issues

Lesson Objectives

After completing this lesson, you will be able to:

- Monitor Replication Server

Lesson 3: Supporting Failed Transactions

Lesson Objectives

After completing this lesson, you will be able to:

- Support failed transactions

Lesson 4: Resolving Replication Server Issues

Lesson Objectives

After completing this lesson, you will be able to:

- Resume a suspended connection
- Resynchronize replicated data

Lesson 5: Customizing Error Actions

Lesson Objectives

After completing this lesson, you will be able to:

- Customize error actions