PINGDS ADMINISTRATION

DURATION - 3 DAYS

Description

This course is designed to provide students with the knowledge and concepts necessary to install, configure, and maintain a PingDS (DS), formerly known as ForgeRock® Directory Services, deployment.

Note: Revision A of this course is based on version 8.0.0 of DS.

Target Audiences

The target audiences for this course include:

- Technical users deploying and managing PingDS:

– Evaluators

– Integrators

– Consultants

– Administrators

Objectives

Upon completion of this course, you should be able to:

- Understand how to deploy directory servers, and directory proxy servers, manage replication, upgrade DS servers, and configure the DS password synchronization plugin
- Measure performance, tune, and troubleshoot DS
- Use the HTTP Directory Access Protocol (HDAP) APIs for REST-based HTTP(S) access to directory services

Prerequisites

The following are the prerequisites for successfully completing this course:

- Knowledge of Lightweight Directory Access Protocol (LDAP).

- An understanding of how directory servers function.

- An understanding of REST and HTTP.

- Knowledge of UNIX/Linux commands.

- A basic knowledge of Java based environments would be beneficial, but no programming experience is required.

- Completion of the PDS-100: Introduction to PingDS and PDS-330: Getting Started with PingDS on-demand courses.

Course Contents

Chapter 1: Deploying Directory Services

Understand how to deploy directory servers, and directory proxy servers, manage replication, upgrade DS servers, and configure the DS password synchronization plugin.

Lesson 1: Installing Directory Servers

Install directory servers for custom and Ping Identity Platform (Identity Platform) product deployments:

- Prepare for a directory server installation

- Access your lab environment

- Prepare the lab environment

- Install a directory server

- Prepare directory servers for Identity Platform installations

- Set up directory servers for AM

- Set up a directory server as an IDM repository

- Synchronize passwords with IDM

- Configure password synchronization

Lesson 2: Replicating Data

Implement high availability for directory servers and maintain, monitor, and restore a replicated directory server topology:

- Plan for replication
- Install a replicated topology
- Manage a replicated topology
- Monitor and maintain replication

Lesson 3: Upgrading DS Servers

Prepare for and perform an upgrade of directory servers in a DS 7 replicated topology to DS 8:

- Describe upgrade options
- Upgrade DS 7 servers to DS 8

Lesson 4: Installing DS Directory Proxy

Understand the role of DS directory proxy and install DS directory proxy to provide a single point of entry to directory servers:

- Introduce DS directory proxy
- Install DS directory proxy
- Provide a single point of access to replicas

Chapter 2: Tuning and Troubleshooting DS

Measure performance, tune, and troubleshoot DS.

Lesson 1: Measuring Performance

Understand performance requirements and settings that may be tuned to improve directory server performance:

- Explain settings that affect performance
- Prepare the lab environment
- Tune the JE DB cache and generate performance tests

Lesson 2: Troubleshooting

- Configure log files, collect troubleshooting data for Support, and monitor a DS deployment with Prometheus and Grafana:
- Explain how to collect data for support
- Collect data for support
- Explore log files
- Manage log files
- Monitor a DS deployment
- Observe monitoring metrics

Chapter 3: Accessing PingDS over HTTP(S)

Use the HTTP Directory Access Protocol (HDAP) APIs for REST-based HTTP(S) access to directory services.

Lesson 1: Introducing HDAP

Access directory servers and perform operations over HTTP(S):

- Describe REST-based HTTP access
- Prepare the lab environment
- Examine HTTP and HDAP configuration properties
- Verify HDAP authentication
- Explain HDAP operations
- Manage resources with HDAP

Lesson 2: Using Account Management Actions

Manage passwords and display account usability information and resource schema:

- Manage passwords
- Update passwords
- View JSON Schema
- Get JSON schema