Junos Space Essentials

Education Services

COURSE OVERVIEW

This three-day course provides students with the knowledge required to operate Junos Space Appliance and manage devices with Junos Space. Students will learn how to install Junos Space into a multimode Space Fabric, as well as learn how to administer and monitor the Fabric. The course also explores centralized Junos device management options offered by the Junos Space Network Management Platform, including configuration backup, synchronization, Junos image distribution, and application of templates. Students will also learn how to automate Junos Space management functions using Ansible.

This course is based on Junos Space Release 22.3R1.2, Security Director Release 22.3R1.2, Network Director Release 6.3R1.23, and Junos Release 23.1.R1.8. The course materials are updated to include the current 2023 icons and present the current best practices. This update includes a new lab part that covers creating and applying CLI Configlets.

COURSE LEVEL

Intermediate

AUDIENCE

Individuals responsible for managing Junos devices using the Junos Space software

PREREQUISITES

- Basic networking knowledge and an understanding of the OSI reference model and the TCP/IP protocol suite
- General knowledge of network management concepts
- General understanding of Junos OS

RELATED JUNIPER PRODUCTS

- Junos Space
- Junos Space Network Director
- Junos Space Security

RECOMMENDED NEXT COURSE

Junos Space Essentials

CONTACT YOUR REGIONAL EDUCATION SERVICES TEAM:

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OBJECTIVES

- List and identify the components and applications of Junos Space.
- Explain Junos Space deployments.
- Describe Junos Space fabric deployments.
- Explain how to manage Junos Space Network Management Platform.
- Describe how Junos Space discovers and manages devices.
- Explain the differences between template definitions and templates.
- Describe how to use Junos Space for network monitoring.
- Describe how to generate reports in Junos Space.
- Describe how to use Ansible playbooks with Junos Space.

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COURSE CONTENTS

DAY 1

1 Course Introduction

2 Introduction to Junos Space

- Explain the benefits of Junos Space software
- Describe the Junos Space architecture
- Identify Junos Space applications
- Identify Junos Space features

3 Junos Space Deployment

- Describe the two different form factors available for Junos Space
- Describe the initial setup of Junos Space
- Explain Junos Space security features and requirements
- Explain how to navigate the Junos Space GUI

Lab 1: Accessing Junos Space

4 Fabric Deployment

- Describe multinode Junos Space deployments
- Describe the services that are used in a Junos Space deployment
- Describe Junos Space fabric creation
- Describe FMPM deployment
- Describe high availability failover scenarios

Lab 2: Deploying Junos Space in a Cluster

DAY 2

5 Platform Administration

- Describe how to manage jobs
- Describe roles, users, and domains
- Describe how to recover from password loss and locked accounts
- Describe how to manage Junos Space applications and database

Lab 3: Platform Administration

6 Device Management

- Explain how Junos Space discovers devices
- Describe how to use Junos Space to modify device configurations
- Describe how to use Junos Space to upgrade the firmware of managed devices

Lab 4: Network Management Platform

7 Junos Space Templates

- Describe template definitions
- Create and use template definitions
- Create and deploy templates
- Create Quick Templates
- Create and deploy CLI configlets

Lab 5: Configuring and Applying Templates

DAY 3

8 Network Monitoring

- Describe the purposes of network monitoring
- View nodes, node links, and alarms using the Topology workspace
- Configure and manage network monitoring features

Lab 6: Network Monitoring

9 Reports

- Describe how reports function within Junos Space
- Manage predefined and custom report definitions
- Describe how to generate reports

Lab 7: Reports

10 FEC 129 Pseudowires

- Explain the way that FEC 129 autodiscovers remote PEs and signals pseudowires
- Configure and verify a FEC 129 pseudowire

Lab 4: FEC 129 Pseudowires (Optional)

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