



JUNIPER MANAGEMENT PLATFORMS

Junos Space (SPACE)

Course Overview

This two-day workshop presents the basic operations of the Junos Space (version 11.2) Platform and the Service Now and Service Insight applications.

The Junos Space Platform is the necessary underlying foundation for all add-on Junos Space applications. Students will install Junos Space into a multi-node Space Fabric, learn the administrative environment, monitor the Fabric, and perform schema updates. Centralized Junos device management options offered by the Junos Space Platform (including configuration backup, synchronization, Junos image distribution, and application of templates) will be explored. Juniper's Service Automation strategy using the Junos Space Service Now and Service Insight applications is also covered. Students will learn the key points of preparing the Service Automation environment, verifying the automated collection of troubleshooting data, and confirming submission of the support case to Juniper. This course is based on Junos Space Release 11.2.

Objectives

After successfully completing this course, you should be able to:

- Describe the architecture of the Junos Space network application solution.
- Explain the components of the Junos Space Fabric.
- Perform the installation of Junos Space.
- Configure and monitor a multi-node Junos Space Fabric.
- Connect to and navigate the Junos Space GUI.
- Update DMI device schemas in Junos Space.
- Manage remote Junos devices using the Junos Space Platform.
- Perform the centralized backup of remote Junos device configurations.
- Describe Junos Space centralized support for the implementation of Junos event, commit, and op scripts.

- Upgrade the Junos image on remote Junos devices.
- Implement configuration template management of remote Junos devices.
- Create Junos Space users and enforce role-based administration.
- Describe the process of installing new Junos Space applications.
- Perform a backup of the Junos Space database.
- Explain the goals of Junos Service Automation.
- Implement the Service Now and Service Insight applications.

Target Audience

This course benefits individuals who support and operate the Junos Space centralized management and application solution.

Course Level

Introductory

Prerequisites

No previous experience with Junos Space is required. Students should have a basic knowledge of TCP/IP networking. Familiarity with Junos-based networking devices is helpful, but not required.



Day 1

Chapter 1: Course Introduction

Chapter 2: Junos Space Product Portfolio

- What Is Junos Space?
- High-Level Architecture and Design
- Availability: Physical and/or Virtual Appliances
- Scalability: Multi-Node Fabric Redundancy
- Plug-n-Play Application Expansion
- High-Level Review of Available Applications

Chapter 3: Junos Space Deployment

- JA 1500 Hardware Appliance, Specifications, Panels, and LEDs
- JA1500 Preparation and Installation
- Space Network Connectivity Requirements
- Space Virtual Appliance Requirements
- Space Virtual Appliance Package Contents
- Securing Space
- HA Load Balancing of the Space Fabric
- Space Fabric: Monitoring, Adding, and Removing Nodes
- Lab 1: Installation

Chapter 4: Junos Space GUI Concepts

- GUI Overview and Design Principles
- Main Landing Page and Navigation
- Shortcuts and Statistical Widgets
- Inventory Landing Page
- Searching/Filtering
- Lab 2: Introduction to the Space GUI

Chapter 5: Remote Management of Junos Devices in the Junos Space Platform

- Prerequisites for Device Management: Protocols, Ports, Permissions
- Verifying and Updating DMI Schemas Appropriate for Remote Junos Devices
- Device Discovery Options
- Space Initiated vs. Device Initiated Connections
- Viewing Device Inventory and Interface Status
- Resynchronization Properties of Junos Devices with Junos Space
- Remote Junos Image Management: Uploading, Staging, Installing
- Junos Device Script Management: Centrally Storing, Assigning, and Verifying Junos Commit Scripts, Op Scripts, and Event Scripts
- Lab 3: Remote Device Management

Day 2

Chapter 6: Junos Space Platform Configuration Templates for Remote Junos Devices

- Overview of Configuration Templates
- Understanding Template Definitions vs. Templates
- Role of the Template Designer vs. the Template Administrator
- Creation, Assignment, and State Transitions
- Lab 4: Template Operations

Chapter 7: Junos Space Platform Administration

- Space Users and Role-Based Administration
- Creation of Custom Roles
- Job Management
- Audit Logs: Viewing and Archiving
- Database Backup and Restore
- License Management
- Installing and Upgrading Add-On Applications
- Upgrading the Space Platform
- Space Platform Troubleshooting and Maintenance Mode
- Remote RADIUS Authentication for the Space Platform
- Lab 5: Space Administration

Chapter 8: Junos Space Service Automation with Service Now and Service Insight

- What Is Service Automation?
- Important Goals of Service Automation
- The Integrated Juniper Solution Using Space
- Service Now Benefits:
 - Automated Incident Detection
 - Automated Diagnostic Data Collection
 - Automated Case Opening
- Setting Focus with Event Filtering
- Service Insight Benefits:
 - Proactive Bug Notifications
 - End of Life Impact Analysis
- Communications Architecture: From Device to Space to Juniper
- The Important Role of AI Scripts
- Defining and Viewing a JMB Bundle
- Configuring E-mail Notifications
- Overriding Default Event Priorities
- Submitting the Case to Juniper
- Security and Scrubbing Options
- Checking for Status/Resolution Updates
- Lab 6: Service Automation

Cost AUD \$1,699 inc. GST

For Available Dates or T&Cs see: www.crystalecho.com

