



Course No: (TWI-JUNOS-SPACE)

Length: 3 days

About this Course

The course is designed for the students to start with the practical work with Junos Space as soon as possible. Most of the chapters are followed by rich practical labs, and therefore on the beginning of the course only basic administration is presented. Further administration tasks are presented later in the course. In the split administration parts, most of the administrative features, like administration modes, licensing, user management, device management, etc. is covered.

The middle part focuses on Junos Space applications, which are Service Now, Insight design, Virtual control, QoS design, Ethernet design, Network activate and Security design. Each Junos Space application chapter is also virtually separated in two parts. The first part introduces the generic theory, and the second part provides the description of application tools used to achieve required configuration. E.g. QoS design application chapter first explains the QoS mechanism, and after that the practical use of tools provided by the application itself.

Prerequisites

A student following the Junos Space course should be familiar with Juniper Networks devices running the JUNOS operating system.

The student should have basic networking knowledge, understanding of IPv4 addressing, RM OSI model, and TCP/IP protocols suite as well.

It is advantage for students to be familiar with network protocols like: MPLS, VPLS, VPN, VLAN, NAT, IP-Sec, QoS(CoS), SNMP and others

Course Contents

Day One

Introduction to Junos Space part #1

- What is Junos Space
- Appliances
- Interfaces
- Hands on Labs
 - Accessing the Junos Space User Interface - WEB GUI
 - Creating new Role
 - Creating an User Account

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Introduction to Junos Space part #2

- Users administration
- Job Management Overview
- Devices management
- Topology discovery
- Applications
- Hands on Labs
 - Installing new application
 - Discovering devices
 - Devices administration
 - SSH Console
 - Discovering topology

Service Now Application

- Definition
- Service Now Workspaces
- Service Now Modes
- Hands on Labs
 - Downloading the AI script from Juniper support page
 - Creating an Event profile
 - Configuring Organization
 - Configuring Device group and add device(s) to it
 - Configuring the device in Service Now application for receiving incidents
 - Examination of the received Juniper Message Bundle (JMB)

Day Two

Service Insight Application

- Service Insight Workspace

Virtual Control Application

- About Virtual Networks
- Virtual Control Workspace
- Orchestration

Ethernet Design Application

- Ethernet Design Workspaces
- Hands on Labs
 - Creating port profiles
 - Provisioning port profiles
 - VLANs
 - Campus configuration audit

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Security Design Application

- Security Design Workspaces
- Hands on Labs
 - Should be available in September 2011

Network Activate Application

- L2 and L3 VPN/VPLS/MPLS overview
- Network Activate Workspaces

QoS Design Application

- Quick QoS overview
- QoS Design Workspaces

Day Three

Administration I.

- Administrators
- System modes
- Licensing
- Hands on Labs
 - Initial configuration using CLI

Administration II.

- Junos Space Fabric overview
- Database
- Logs & Troubleshooting
- Audit Logs
- Device Images
- Scripts
- Hands on Labs
 - Increasing Junos Space virtual machine disk size
 - Database backup
 - Downloading Troubleshooting file

Note: The word "Workspace(s)" covers all task groups and sub-task groups for particular application.