

Course Outline:

1: Course Introduction

2: Junos Layer 2 Packet Handling and Security Features

- Transparent Mode Security
- Secure Wire
- Layer 2 Next Generation Ethernet Switching
- MACsec
- Lab 2: Implementing Layer 2 Security

3: Virtualization

- Virtualization Overview
- Routing Instances
- Logical Systems
- Lab 3: Implementing Junos Virtual Routing

4: AppSecure Theory

- AppSecure Overview
- AppID Overview
- AppID Techniques
- Application System Cache
- Custom Application Signatures

5: AppSecure Implementation

- AppTrack
- AppFW
- AppQoS
- APBR
- SSL Proxy
- Lab 4: Implementing AppSecure

6: Working with Log Director

- Log Director Overview
- Log Director Components
- Installing and setting up Log Director
- Clustering with the Log Concentrator VM
- Administrating Log Director
- Lab 5: Deploying Log Director

7: Sky ATP Theory

- Sky ATP Overview
- Monitoring Sky ATP
- Analysis and Detection of Malware

8: Sky ATP Implementation

- Configuring Sky ATP
- Installing Sky ATP
- Analysis and detection of Malware
- Infected Host Case Study
- Lab 6: Instructor Led Sky ATP Demo

9: Implementing UTM

- UTM Overview
- AntiSpam
- AntiVirus
- Content and Web Filtering
- Lab 7: Implementing UTM

10: Introduction to IPS

- IPS Overview
- Network Asset Protection
- Intrusion Attack Methods
- Intrusion Prevention Systems
- IPS Inspection Walkthrough

11: IPS Policy and Configuration

- SRX IPS Requirements
- IPS Operation Modes
- Basic IPS Policy Review
- IPS Rulebase Operations
- Lab 8: Implementing Basic IPS Policy

12: SDSN

- SDSN Overview
- SDSN Components
- SDSN Configuration
- Policy Enforcer Troubleshooting
- SDSN Use Cases
- Lab 9: Implementing SDSN

13: Enforcement, Monitoring, and Reporting

- User Role Firewall and Integrated User Firewall Overview
- User Role Firewall Implementation
- Monitoring User Role Firewall
- Integrated User Firewall Implementation
- Monitoring Integrated User Firewall
- Lab 10: Configure User Role Firewall and Integrated User Firewall

14: Troubleshooting Junos Security

- Troubleshooting Methodology
- Troubleshooting Tools
- Identifying IPsec Issues
- Lab 11: Performing Security Troubleshooting Techniques

A: SRX Series Hardware and Interfaces

- Branch SRX Platform Overview
- High End SRX Platform Overview
- SRX Traffic Flow and Distribution
- SRX Interfaces