

## Advanced Junos Security

**Duración: 4 Días**    **Código del Curso: AJSEC**    **Version: 20.1R**    **Método de Impartición: Curso Cerrado (In-Company)**

### Temario:

This four-day course, which is designed to build off the current Juniper Security (JSEC) offering, delves deeper into Junos security, next-generation security features, and ATP supporting software. Through demonstrations and hands-on labs, you will gain experience in configuring and monitoring the advanced Junos OS security features with advanced coverage of advanced logging and reporting, next generation Layer 2 security, next generation advanced anti-malware with Juniper ATP On-Prem and SecIntel. This course uses Juniper Networks SRX Series Services Gateways for the hands-on component. This course is based on Junos OS Release 20.1R1.11, Junos Space Security Director 19.4, Juniper ATP On-Prem version 5.0.7.

### Curso Cerrado (In-Company)

Debido a que nuestra formación es modular, nuestros responsables de formación e instructores pueden trabajar con usted y su equipo para detectar las necesidades formativas y adaptar un temario de forma rápida y rentable. Durante una formación cerrada, usted recibirá una formación de expertos en un curriculum adaptado a sus necesidades.

### Dirigido a:

This course benefits individuals responsible for implementing, monitoring, and troubleshooting Juniper security components.

### Objetivos:

- Demonstrate understanding of concepts covered in the prerequisite Juniper Security courses.
- Describe the various forms of security supported by the Junos OS.
- Describe the Juniper Connected Security model.
- Describe Junos security handling at Layer 2 versus Layer 3.
- Implement next generation Layer 2 security features.
- Demonstrate understanding of Logical Systems (LSYS).
- Demonstrate understanding of Tenant Systems (TSYS).
- Implement virtual routing instances in a security setting.
- Describe and configure route sharing between routing instances using logical tunnel interfaces.
- Describe and discuss Juniper ATP and its function in the network.
- Describe and implement Juniper Connected Security with Policy Enforcer in a network.
- Describe firewall filters use on a security device.
- Implement firewall filters to route traffic.
- Explain how to troubleshoot zone problems.
- Describe and implement IPsec VPN in a hub-and-spoke model.
- Describe the PKI infrastructure.
- Implement certificates to build an ADVPN network.
- Describe using NAT, CoS and routing protocols over IPsec VPNs.
- Implement NAT and routing protocols over an IPsec VPN.
- Describe the logs and troubleshooting methodologies to fix IPsec VPNs.
- Implement working IPsec VPNs when given configuration that are broken.
- Describe Incident Reporting with Juniper ATP On-Prem device.
- Configure mitigation response to prevent spread of malware.
- Explain SecIntel uses and when to use them.
- Describe the systems that work with SecIntel.
- Describe and implement advanced NAT options on the SRX Series devices.
- Explain DNS doctoring and when to use it.
- Describe NAT troubleshooting logs and techniques.

- Describe the tools available to troubleshoot SRX Series devices.
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#### Prerequisites:

- Strong level of TCP/IP networking and security knowledge
  - Complete the Juniper Security (JSEC) course prior to attending this class
  - JSEC - Junos Security
  - JUTM - Junos Unified Threat Management
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#### Siguientes cursos recomendados:

- JIPS - Junos Intrusion prevention System Functionality
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## Contenido:

### Day 1

#### 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 1: Implementing Layer 2 Security

#### 3 Firewall Filters

- Using Firewall Filters to Troubleshoot
- Routing Instances
- Filter-Based Forwarding

#### LAB 2: Implementing Firewall Filters

#### 4 Troubleshooting Zones and Policies

- General Troubleshooting for Junos Devices
- Troubleshooting Tools
- Troubleshooting Zones and Policies
- Zone and Policy Case Studies

#### LAB 3: Troubleshooting Zones and Policies

### Day 2

#### 5 Hub-and-Spoke VPN

- Overview
- Configuration and Monitoring

#### LAB 4: Implementing Hub-and-Spoke VPNs

### 6 Advanced NAT

- Configuring Persistent NAT
- Demonstrate DNS Doctoring
- Configure IPv6 NAT Operations
- Troubleshooting NAT

#### LAB 5: Implementing Advanced NAT Features

### 7 Logical and Tenant Systems

- Overview
- Administrative Roles
- Differences Between LSYS and TSYS
- Configuring LSYS
- Configuring TSYS

#### LAB 6: Implementing TSYS

### Day 3

### 8 PKI and ADVPNs

- PKI Overview
- PKI Configuration
- ADVPN Overview
- ADVPN Configuration and Monitoring

#### LAB 7: Implementing ADVPNs

### 9 Advanced IPsec

- NAT with IPsec
- Class of Service with IPsec
- Best Practices
- Routing OSPF over VPNs

#### LAB 8: Implementing Advanced IPsec Solutions

### 10 Troubleshooting IPsec

- IPsec Troubleshooting Overview
- Troubleshooting IKE Phase 1 and 2
- IPsec Logging
- IPsec Case Studies

#### LAB 9: Troubleshooting IPsec

### Day 4

#### 11 Juniper Connected Security

- Security Models
- Enforcement on Every Network Device

#### 12 SecIntel

- Security Feed
- Encrypted Traffic Analysis
- Use Cases for SecIntel

#### LAB 10: Implementing SecIntel

#### 13 Advanced Juniper ATP On-Prem

- Collectors
- Private Mode
- Incident Response
- Deployment Models

#### LAB 11: Implementing Advanced ATP On-Prem

#### 14 Automated Threat Mitigation

- Identify and Mitigate Malware Threats
- Automate Security Mitigation

#### LAB 12: Identifying and Mitigating Threats

### A Group VPNs

- Overview
- Implementing Group VPNs

### Más información:

Para más información o para reservar tu plaza llámanos al (34) 91 425 06 60

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