



Configuring Juniper Networks firewall/IPsec VPN products

Duration: 3 Days **Course Code: CJFV**

Overview:

This course is the first in the ScreenOS curriculum. It is a three-day, instructor-led course that focuses on configuration of the ScreenOS firewall/virtual private network (VPN) products in a variety of situations, including basic administrative access, routing, firewall policies and policy options, attack prevention features, address translation, and VPN implementations. This course is based on ScreenOS version 6.2.

Target Audience:

This course is intended for network engineers, support personnel, reseller support, and others responsible for implementing Juniper Networks firewall products.

Objectives:

- **After you complete this course you will be able to:**
 - After successfully completing this course, you should be able to:
 - Explain the ScreenOS security architecture.
 - Configure administrative access and options.
 - Back up and restore configuration and ScreenOS files.
 - Configure a ScreenOS device in transparent, route, Network Address Translation (NAT), and IP version 6 (IPv6) modes.
 - Discuss the applications of multiple virtual routers.
 - Configure the ScreenOS firewall to permit and deny traffic based on user defined policies.
 - Configure advanced policy options.
 - Identify and configure network designs for various types of network address translation.
 - Configure policy-based and route-based VPN tunnels.
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Prerequisites:

This course assumes that students have basic networking knowledge and experience in the following areas:

- The Internet;
- Networking concepts; and
- Terms including TCP/IP, bridging, switching, and routing.

Testing and Certification

Recommended preparation for exam(s):

- Exam code: JN0-522 - Configuring Juniper Networks Firewall/IPsec, VPN products (CJFV)
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Follow-on-Courses:

The following courses are recommended for further study:

- There are no recommended courses
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Content:

ScreenOS Concepts, Terminology, and Platforms

- Security Device Requirements
- ScreenOS Security Architecture
- Juniper Networks Platforms

Initial Connectivity

- System Components
- Establishing Connectivity
- Verifying Connectivity
- Lab 1: Initial Configuration

Device Management

- Management
- Recovery
- Lab 2: Device Administration

Layer 3 Operations

- Need for Routing
- Configuring Layer 3
- Verifying Layer 3
- Loopback Interface
- Interface-Based NAT
- Lab 3: Layer 3 Operations

Basic Policy Configuration

- Functionality
- Policy Configuration
- Common Problems
- Global Policy
- Verifying Policies
- Lab 4: Basic Policy Configuration

Policy Options

- Overview
- Logging
- Counting
- Scheduling
- User Authentication
- Lab 5: Policy Options

Address Translation

- Scenarios
- NAT-src
- NAT-dst
- VIP Addresses
- MIP Addresses
- Lab 6: Address Translation

VPN Concepts

- Concepts and Terminology
- IP Security

Policy-Based VPNs

- Configuration
- Verifying Operations
- Lab 7: Policy-Based VPNs

Route-Based VPNs

- Concepts and Terminology
- Configuring VPNs
- Verifying Operations
- Lab 8: Route-Based VPNs

IPv6

- IPv6 Concepts
- Configuration
- Verifying IPv6 Operations
- Lab 9: IPv6

Further Information:

For More information, or to book your course, please call us on 0800/84.009

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