

Configuring Juniper Networks Firewall/IPsec VPN Products (CJFV)

COURSE LEVEL

Configuring Juniper Networks Firewall/IPsec VPN Products is an introductory-level course

AUDIENCE

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

PREREQUISITES

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

COURSE 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 6.3r14.

OBJECTIVES

- 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.

ASSOCIATED CERTIFICATION

JNCIA-FWV, JNCIS-FWV

RELEVANT JUNIPER PRODUCT

- NetScreen Series
- SSG Series

RECOMMENDED NEXT COURSE

- Attack Prevention with Juniper Networks Firewalls (APJF)
- Advanced Juniper Networks IPsec VPN Implementations (AJVI)
- Integrating Juniper Networks Firewalls and VPNs into High-Performance Networks (IFVH)

CONTACT INFORMATION

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COURSE CONTENT

Day 1

1	COURSE INTRODUCTION
2	ScreenOS Concepts, Terminology, and Platforms <ul style="list-style-type: none"> • Security Device Requirements • ScreenOS Security Architecture • Juniper Networks Platforms
3	Initial Connectivity <ul style="list-style-type: none"> • System Components • Establishing Connectivity • Verifying Connectivity LAB: Initial Configuration

Day 2

5	Layer 3 Operations <ul style="list-style-type: none"> • Need for Routing • Configuring Layer 3 • Verifying Layer 3 • Loopback Interface • Interface-Based NAT LAB: Layer 3 Operations
6	Basic Policy Configuration <ul style="list-style-type: none"> • Functionality • Policy Configuration • Common Problems • Global Policy • Verifying Policies LAB: Basic Policy Configuration

4	Device Management <ul style="list-style-type: none"> • Management • Recovery LAB: Device Administration
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7	Policy Options <ul style="list-style-type: none"> • Overview • Logging • Counting • Scheduling • User Authentication LAB: Policy Options
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8	Address Translation <ul style="list-style-type: none"> • Scenarios • NAT-src • NAT-dst • VIP Addresses • MIP Addresses LAB: Address Translation
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Day 3

9

VPN Concepts

- Concepts and Terminology
- IP Security

12

IPv6

- IPv6 Concepts
- Configuring IPv6
- Verifying IPv6

Lab: IPv6

10

Policy-Based VPNs

- Configuration
- Verifying Operations

LAB: Policy-Based VPNs

Appendix A: Additional Features

- Hardware

11

Route-Based VPNs

- Concepts and Terminology
- Configuring VPNs
- Verifying Operations

LAB: Route-Based VPNs

Appendix B: Transparent Mode

- Description
- Configuration
- Verifying Operations
- Lab: Transparent Mode (Optional)