



JUNIPER (ScreenOS, NetScreen, SSG, ISG) FIREWALL/VPN

Juniper Networks Certified Internet Specialist (JNCIS-FWV)
AJPF - Attack Prevention with Juniper Networks Firewalls (1 day)
AJVI - Advanced Juniper Networks IPSec VPN Implementations (2 days)
IFVH - Integrating Juniper Networks Firewalls and VPNs into High-Performance Networks (3 days)
CJFV - Configuring Juniper Networks Firewall/IPSec VPN Products (3 days)

Advanced Juniper Networks IPSec VPN Implementations (AJVI)

Course Overview

This two-day course is a survey of various IPSec VPN configurations as well as alternatives (i.e. GRE), and includes instruction on deploying dynamic routing over VPNs. Upon completing this course, a student should be able to return to work and successfully install, configure, and verify that a ScreenOS-based device is functioning in a VPN configuration. Through demonstrations and hands-on labs, students gain experience in configuring, testing, and troubleshooting the VPN designs discussed in class

Target audience

Network engineers, support personnel, and reseller support.

Course Level

Intermediate to Advanced

Prerequisites

Completion of CJFV or equivalent product experience. Completion of NSMF or equivalent product experience if using Security Manager. General networking knowledge, including Ethernet, TCP/IP, and routing concepts.

Day One

Introduction

ScreenOS VPN Review

- Review policy-based VPN configuration
- Review route-based VPN configuration
- Review Security Manager VPN Manager
- Review verification commands
- Review troubleshooting tools
- Describe and configure VPN Monitor

VPN Variations

- Configure LAN-to-LAN VPN with a dynamic peer using ID
- Configure LAN-to-LAN VPN with a dynamic peer using FQDN
- Configure VPN with ScreenOS device in transparent mode
- Configure VPN with ScreenOS device in transparent mode



Hub and Spoke VPNs

- Describe the concept of a Hub and Spoke VPN
- Describe different Hub and Spoke scenarios
- Configure Hub and Spoke VPNs using the following scenarios:
 - Policy-based
 - Interfaces in same zone as protected resources (using NHTB)
 - Interfaces in different zones than protected resources
 - Centralized spoke-to-spoke control
- Verify Configuration

Routing over VPNs

- Explain dynamic routing operations over VPN links
- Configure RIP over VPN links
- Configure OSPF over VPN links

Day Two

Using Certificates

- Define and explain the following concepts:
 - Public Key Cryptography
 - Digital Signatures
 - Digital Certificates
 - Public Key Cryptography Standard (PKCS)
 - Certification Authority (CA)
 - Certificate Revocation List (CRL)
 - Online Certificate Status Protocol (OCSP)
- Acquire and load certificates and CRLs
- Configure LAN-to-LAN IPSec VPN using certificates for authentication

Redundant VPN Gateways

- Describe the functionality of the ScreenOS redundant VPN gateway feature
- Configure redundant VPN gateways
- Discuss other redundancy

GRE

- Explain GRE technology and terminology
- Discuss GRE applications
- Configure GRE
- Verify operations

Dial-Up VPNs

- Discuss dial-up VPN options
 - Basic
 - Multiple tunnels/split tunnelling
 - Group IKE ID
 - Shared IKE ID and XAUTH
- Compare/contrast dial-up IPSec VPNs with SSL VPNs
- Configure ScreenOS device for dial-up VPN connection

NetScreen-Remote

- Introduce NetScreen-Remote VPN client product
- Configure client for dial-up VPN connectivity

Cost AUD \$1,399 inc. GST

For Available Dates & Terms and Conditions see:
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