

Advanced Juniper Networks IPSec VPN Implementations

The course at hand treats an abundance of options of configuring VPNs with Juniper Firewalls. By means of a well-dosed combination of theoretical knowledge and hands-on exercises, the participants learn how to implement the different variants.

Course Contents

- Review: Basics of VPN Configuration with ScreenOS
- Digital Certificates
- Dynamic Peer VPNs
- VPNs with Overlapping Address Spaces
- Transparent Mode VPNs
- Star-Shaped VPNs (Hub and Spoke)
- Routing in VPNs: Static Routes, RIP, and OSPF
- GRE Tunnel
- Redundancy
- Dial-In Solutions
- IKE Variants: Group IKE ID and XAUTH/Shared IKE ID
- NetScreen Remote

Detailed Table of Content

In this course, each participant will receive the original Juniper Networks course documentation in English language.

Target Group

Administrators and technicians who wish to design, implement, and operate advanced VPN solutions with Juniper Firewalls should attend this course.

Knowledge Prerequisites

Good know-how of the handling of ScreenOS is a prerequisite. It is therefore necessary to visit the CJFV-Configuring Juniper Networks Firewall/IPSec VPN Products course prior to attending the course at hand.



Reservation and Registration

We will be glad to make a free and non-binding course reservation for you for the duration of two weeks. On www.experteach-benelux.com under *Registration*, you can conveniently make course reservations, registrations, and hotel reservations. Alternatively, call us under +31 (0)76 52 32 950.

For closed groups of participants, we can modify the course contents according to your requirements. Do not hesitate to contact us!



2 days €1,390 exclusive of V.A.T.

Course date (dd.mm.yy)/Location

Course dates available on request

Up-to-date information: www.experteach-benelux.com AJVI



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AJVI – Advanced Juniper Networks IPSec VPN Implementations

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

- 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 tunneling
 - 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

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



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