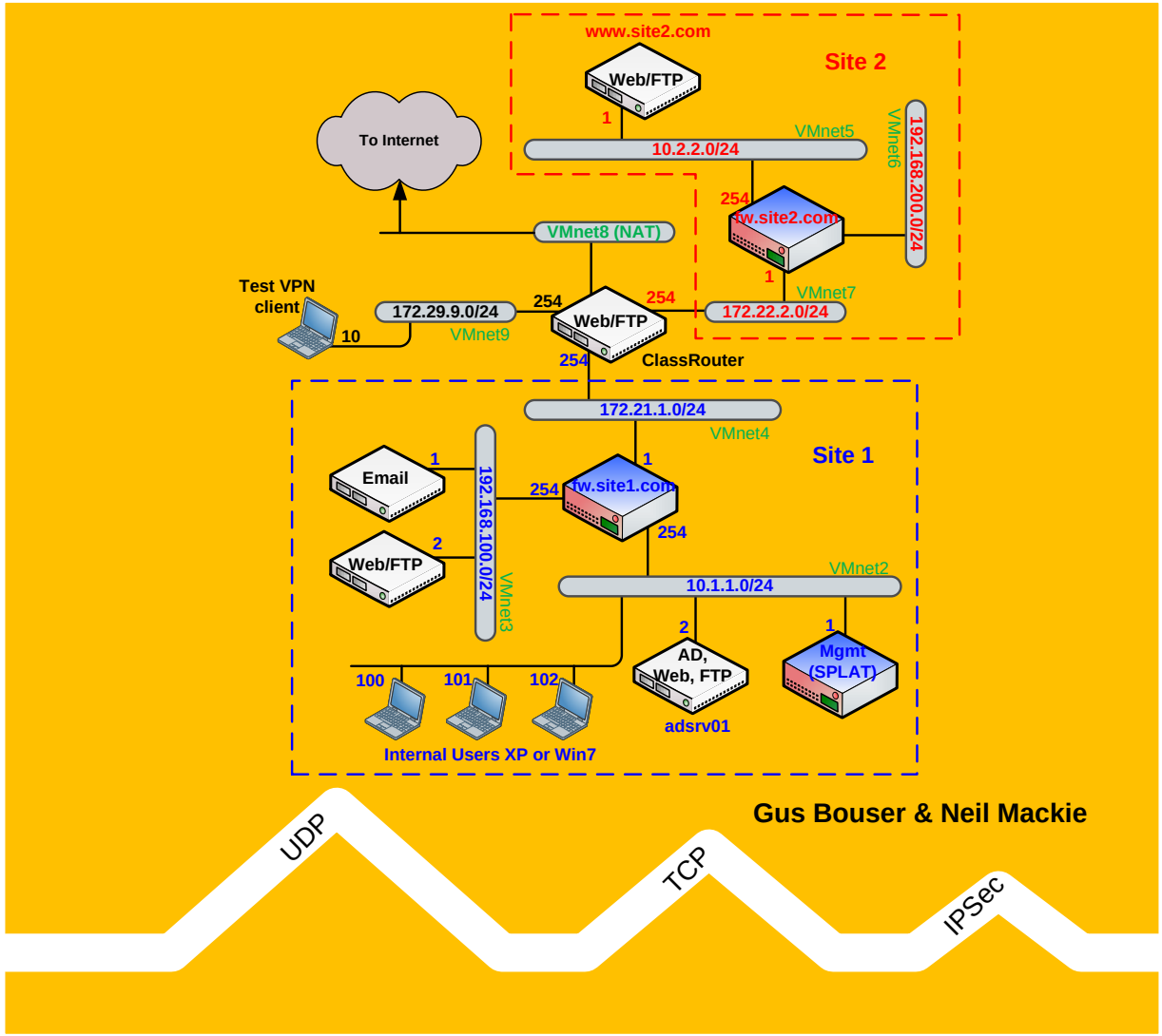
Check Point R75
Management Essentials - Part 2

Training course materials
Preparation for CCSE Certification



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1 - Encryption

Objectives

- Understand how the Firewall uses symmetric encryption
- Understand how the Firewall uses asymmetric encryption
- Understand the requirement for integrity & authenticity
- Understand the function of the Certificate Authority
- Understand the two phases of IKE
- Know the ports & protocol numbers used by IKE and IPSEC
- Understand the process of establishing a VPN tunnel

Prerequisites

- Complete ‘Check Point Management Essentials - Part 1’ Modules
- VMWare Server or Workstation
- Virtual machines configured
- Base firewalls installed and under SmartCenter control

Approximate time for completing each section

Section 1	Securing Communications	30 Minutes
Section 2	IKE and IPSec	40 Minutes
	Total	1Hr 10 Min

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2 - Site to Site VPNS

Objectives

- Know the objects that need to be defined to create a VPN
- Understand the different types of VPN Communities
- Create a Mesh type VPN Community using gateways under your control
- Create a Star type VPN Community using gateways under your control
- Create a Partner site VPN using IKE shared secret authentication
- Create a Partner site VPN using certificate authentication
- Know how to reset and clear VPN tunnels
- Know the common faults in configuring VPNs
- Know how to enable debug logging for VPNs

Prerequisites

- Complete Module 1
- Make sure all Virtual Machines are set to the same date and time

Approximate time for completing each section

Section 1	Check Point VPNs	10 Minutes
Section 2	Current Rules Check	10 Minutes
Section 3	Mesh VPN – Gateways Under your Control	20 Minutes
Section 4	Star VPN – Gateways Under your Control	10 Minutes
Section 5	Start Community – Partners, IKE shared Secrets	40 Minutes
Section 6	Star Community – Partners, Certificates	30 Minutes
Section 7	Common Faults & Debugging	30 Minutes
	Total	2 Hrs 30 Min

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3 - Remote Access VPNs - SecureClient

Objectives

- Understand the importance of Office Mode
- Use Office Mode and the options for allocating an IP Address
- Know how to define a RemoteAccess VPN
- Know how to install Endpoint Security VPN Client
- Know how to create VPN client sites
- Know how to use certificate authentication for users
- Know how to use Endpoint Security (SecureClient) without Desktop rules
- Know the main configuration file for Endpoint Security, Track.default, Track.config,
- Understand the importance of encrypting the Track.config file
- Know how to write Desktop Security rules
- Understand the need for UDP encapsulation and Visitor Mode
- Know how to use the SecureClient packaging tool

Prerequisites

- Complete Module 2
- The following Virtual machines should be running, mgmt-Site1, fw-Site1, ClassRouter, Host1, ADSRV01 & vpnclient

Approximate time for completing each section

Section 1	Rules Check	10 Minutes
Section 2	Remote Access VPNs	10 Minutes
Section 3	Configuring Remote Access VPNs	25 Minutes
Section 4	Installing Endpoint Security VPN client	10 Minutes
Section 5	Using Endpoint Security VPN – No Desktop Policy	25 Minutes
Section 6	Using Endpoint Security VPN – With a Desktop Policy	25 Minutes
Section 7	SecureClient Packaging Tool	35 Minutes
	Total	2 Hr 10 Mins

E75.10 Endpoint Security VPN replaces SecureClient

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4 - Clientless VPNs – Secure Network Extender

Objectives

- Know how to enable SNX support on the Firewall
- Know how to set SNX Global properties
- Know how to configure Clientless VPNs
- Know how to control access for Clientless VPN users
- Know how to use user Certificate Authentication with SNX

Prerequisites

- Complete Module 3 RemoteAccess VPNs

Approximate time for completing each section

Section 1	SSL Network Extender	20 Minutes
Section 2	Configuring Clientless VPNs	45 Minutes
	Total	1 Hr 5 Min

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5 - High Availability – Firewall Clusters

Objectives

- Understand the requirement for ClusterXL
- Understand the importance of the synchronization network
- Understand the problems with adding existing firewalls to a cluster object
- Know how to configure ClusterXL for an Active/Passive HA
- Know how to configure ClusterXL for a Load Sharing HA
- Know how to configure Client VPNs with HA

Prerequisites

- Complete Module 4

Approximate time for completing each section

Section 1	Firewall HA	40 Minutes
Section 2	Configuring HA – Active/Passive	85 Minutes
Section 3	Configuring HA – Load Sharing	30 Minutes
Section 4	Clusters and VPNs	60 Minutes
	Total	3 Hrs 35 Min

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6 - High Availability - SmartCenters

Objectives

- Know the requirements for management HA
- Understand the role of the Primary and Secondary SmartCenter
- Know how to configure SmartCenter HA
- Understand the different states of Management synchronization
- Understand how logging works in Management HA
- Know how to handle a ‘Collision’ state

Prerequisites

- Complete Module 5

Approximate time for completing each section

Section 1	Management HA	20 Minutes
Section 2	Configuring Management HA	80 Minutes
	Total	1 Hr 40 Min

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