Overview
The Introduction to the IPsec VPN Bootcamp Cisco® Training on Demand course is an all-inclusive training solution, which was designed as part of the Cisco Technical Assistance Center (TAC) curriculum. This course takes a deep-dive look at the various use cases for VPNs. It begins with a discussion of the types of VPN models that are used, implementing security technologies, such as an IPsec VPN using a crypto map or an IPsec profile. Also, it covers the configuration of virtual tunnel Interfaces (VTI) and implementing a VPN with a Cisco Dynamic Multipoint VPN (DMVPN). This Training on Demand course is a blend of video, interactivity, and hands-on lab exercises.

Interested in purchasing this course in volume at discounts for your company? Contact ctod-sales@cisco.com.

Duration
The Introduction to IPsec VPN Bootcamp Training on Demand course consists of 4 modules and 20 lessons, totaling more than 5 hours of video instruction along with 4 hands-on lab exercises.

Target Audience
This course is designed for individuals who are responsible for the design, implementation, and support of Cisco VPN technology.

Objectives
After completing this course, you should be able to:

- Describe site-to-site VPN
- Describe Internet Key Exchange (IKE) phases 1 and 2
● Describe the benefits of IPsec VPN
● Configure Next Hop Resolution Protocol (NHRP), Generic Routing Encapsulation (GRE), and static VTI
● Use Enhanced Interior Gateway Routing Protocol (EIGRP), Open Shortest Path First (OSPF), and Border Gateway Protocol (BGP) over DMVPN

Course Prerequisites
Before taking this course, you should have working knowledge and experience about the following:

● Routing protocols, such as Intermediate System–to–Intermediate System (IS–IS), OSPF, and BGP
● Configuring routing protocols using Cisco IOS® Software
● (Optional) Basic understanding of VPN and IPsec terminology (recommended)

Course Outline

● Module 1: Introduction
● Module 2: Crypto Map Based IPsec VPNs
● Module 3: Virtual Tunneled Interfaces and GRE
● Module 4: DMVPN

Labs Outline

This course contains four hands-on virtual lab exercises, powered by Cisco Learning Labs and Cisco IOL (Cisco IOS Software on Linux). The topology for all labs is shown in Figure 1.

Figure 1. Topology for All Labs in IPsec VPN Bootcamp Course
The labs included in this course are:

- Lab 1: Crypto Map–Based VPN
- Lab 2: GRE Tunnel Secured with Crypto Map
- Lab 3: Virtual-Tunneled Interface VPN Between R1 and R2
- Lab 4: DMVPN Full Mesh Among R1, R2, R3, and R4

Instructor: Charles Stizza

Charles Stizza is currently a member of the Data Center Switching TAC team. With more than 15 years of IT experience, his expertise extends to a variety of technologies, including Layer 3 routing, data center, and virtualization. When not teaching or supporting Cisco customers, Stizza spends time mentoring professionals and helping them realize their potential.

Supported Configurations

Cisco Training on Demand videos are supported on PCs, Macs, and tablets using one of the following browsers, or later: Mozilla Firefox 30, Google Chrome 35, and Apple Safari 6. The labs are supported on PCs and Macs, but not on tablets.

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