ProTech Professional Technical Services, Inc.

Administering and Positioning Cisco Umbrella Operations (ADMUMB)

Course Summary

Description

Cisco Umbrella is a cloud security platform that provides the first line of defense against threats on the Internet. Being able to understand how this works and what are the features is the key focus of this course

Objectives

By the end of the course, students will be able to:
- Describe Cisco Umbrella
- Understand Secure Internet Gateway and Ransomware Protection
- Comprehend DNS & IP layer enforcement & Intelligent Proxy
- Describe Command and control callback blocking
- Discuss Threat Intelligence
- Compare Umbrella Packages
- Understand Roaming Security
- Use Cisco Roaming Client
- Deploy the Cisco Umbrella Virtual Appliance
- Integrate Cisco Umbrella into Active Directory
- Configure Umbrella Reporting
- Utilize Multi-Organization Tools

Topics

- Cisco Umbrella- Security Solution
- Implementing Cisco Umbrella
- Roaming Client
- Umbrella Roaming Security
- Virtual Appliance Setup Guide
- Active Directory
- Reporting
- Umbrella Multi-Org Overview

Audience

This course is designed for:
- Channel Partners
- System Engineers
- System Administrators
- Architects
- Security Professional

Prerequisite

To fully benefit from this course, students should have the skills and knowledge of basic understanding of Cisco products and solutions

Duration

Two Days

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Course Outline

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I.   *Cisco Umbrella- Security Solution*
- A. Security Internet Gateway
- B. Ransomware Protection
- C. DNS & IP layer enforcement
- D. Intelligent Proxy
- E. Command & control callback blocking
- F. Threat Intelligence
- G. Umbrella Packages

II.   *Implementing Cisco Umbrella*
- A. Cisco Umbrella Overview
- B. Protect your network
- C. Point your DNS to Cisco Umbrella
- D. Custom Policies
- E. Intelligent Proxy
- F. Umbrella Policy Tester
- G. Policy Precedence

III.   *Roaming Client*
- A. Introduction to Umbrella Roaming Client
- B. Prerequisites
- C. Downloading and Installing
- D. Verifying Operation
- E. Policy Configuration
- F. Adding IP Layer Enforcement
- G. Status, States, and Functionality
- H. Virtual Appliances
- I. Troubleshooting
- J. Internal Domains

IV.   *Umbrella Roaming Security*
- A. AnyConnect: Cisco Umbrella Roaming Security Client Administrator Guide
- B. Cisco Umbrella Dashboard Configuration
- C. Cisco Certificate Import

V.   *Virtual Appliance Setup Guide*
- A. Deployment Guidelines
- B. Deploy the VAs
- C. Setup via VMware
- D. Setup via Hyper-V
- E. Configure Your VAs
- F. Local DNS Forwarding
- G. Reroute DNS
- H. Sites and Internal Networks

I.   Sizing

VI.   *Active Directory*
- A. Active Directory Setup
- B. Set Up DNS Forwarding with your VAs
- C. Active Directory Environment
- D. Route DNS Traffic
- E. Communication Flow and Troubleshooting
- F. Multiple Active Directory and Umbrella Sites

VII.   *Reporting*
- A. Reporting Basics
- B. Understanding Security Categories
- C. Scheduled Reports: Overview and Setup
- D. Security Overview Report
- E. Activity Search Report
- F. Security Activity Report
- G. Destinations Report
- H. Identities Report
- I. Cloud Services Report
- J. Admin Audit Log Report

VIII.   *Umbrella Multi-Org Overview*
- A. Cisco Umbrella Multi-Org Overview
- B. Centralized Settings
- C. Centralized Reports: Service Status
- D. Centralized Reports: Cloud Services

- Lab Outline
  - o Cisco Umbrella Installation
  - o Cisco Umbrella Basic Configuration
  - o Umbrella- Protecting your Network
  - o Umbrella- Provision the roaming client
  - o Monitoring Cisco Umbrella
  - o Cisco Ransomware Defense
  - o Cisco Umbrella Reporting