

COURSE OVERVIEW:

Cisco Virtual Wide-Area Application Services (VWAAS) v1.0 is a 5-day course that teaches students to understand Cisco VWAAS optimization technologies, protocols, services, functions, advanced features and operation. Learn how to implement, integrate, install, manage and troubleshoot Cisco VWAAS solutions in diverse data center virtualization environments such as enterprise networks and virtual private clouds.

WHO SHOULD ATTEND:

- Data Center Engineers
- IT/Cloud Computing Experts
- Network Virtualization Services Experts

PREREQUISITES:

It is strongly recommended that the learner have the following knowledge and skills before attending this course:

- Cisco CCNA Routing and Switching (or equivalent knowledge)
- Fundamental knowledge of server virtualization and hypervisors
- Fundamental knowledge of cloud computing infrastructure
- Fundamental knowledge of WAN Optimization
- Fundamental knowledge of Network Protocols and Applications including HTTP, HTTPS, SSL, SMB, NFS, MAPI, VDI

COURSE OBJECTIVES:

Upon completing this course, the learner will gain the following knowledge:

- Understand and describe the benefits and values of WAN application data optimization and acceleration services provided by Cisco VWAAS network services virtualization platform
- Describe the Cisco VWAAS implementation options in Enterprise Data Center office, Branch office and Virtual Private Cloud networks
- Understand how to manage Cisco VWAAS using VWAAS Central Manager GUI and Command-line interfaces



- Configure, manage, monitor and troubleshoot Cisco VWAAS solutions
- Understand Cisco AppNav and configure the Cisco VWAAS AppNav cluster
- Configure VWAAS for using Akamai Connect features and Akamai Connect Servers on Content Delivery Networks
- Understand how Cisco vNAM integrates with Cisco VWAAS to provide traffic optimization metrics and statistics
- Understand how Cisco VWAAS can be deployed on Virtual Private Clouds (VPC)

COURSE OUTLINE:

- Section 1: Introducing Cisco WAAS
- Section 2: Configuring Applications Acceleration in Cisco VWAAS
- Section 3: Configuring Cisco AppNav
- Section 4: Configuring Traffic Interception for Cisco VWAAS
- Section 5: Configuring Cisco VWAAS with Akamai Connect
- Section 6: Managing Cisco VWAAS Devices using AAA and RBAC
- Section 7: Monitoring Cisco VWAAS
- Section 8: Troubleshooting Cisco VWAAS
- Section 9: Cisco VWAAS on Virtual Private Clouds (VPC)

LABS:

- Discovery 1: Setup a VWAAS Instance
- Discovery 2: Navigate VWAAS and the vCM GUI
- Discovery 3: Configure Device Groups and Device Locations
- Discovery 4: Configure Network Settings
- Discovery 5: Enable and Verify Cisco VWAAS Optimization
- Discovery 6: Configure General Optimization Settings
- Discovery 7: Configure Cisco VWAAS Traffic Acceleration
- Discovery 8: Configure and Monitor Cisco VWAAS AppNav Cluster
- Discovery 9: Configure PBR Traffic Interception
- Discovery 10: Configure WCCP Traffic Interception
- Discovery 11: Enable Akamai Connect and Activating Licensing
- Discovery 12: Enable Akamai Caching, Proxy, and Prepositioning

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- Discovery 13: Configure and Monitor Cache Optimizations with Akamai Connect
- Discovery 14: Configure AAA for Cisco VWAAS
- Discovery 15: Configure RBAC in Cisco VWAAS
- Discovery 16: Work with Dashboard, Charts and Tables
- Discovery 17: Working with Reports
- Discovery 18: Use Alarms, Alerts, and Logs
- Discovery 19: Work with Diagnostic Tests and Troubleshooting Tools
- Discovery 20: Provision and Deploy a VWAAS Instance in Azure