

VSDDM VMware SD-WAN: Deploy and Manage [V4.x]

Duration: 2 Days

Course Overview:

This two-day, hands-on training course provides you with the knowledge, skills, and tools to achieve competency in deploying and managing the VMware SD-WAN by VeloCloud® environment. In this course, you are introduced to workflows of various software-defined WAN constructs along with several operational tools that help you deploy and manage VMware SD-WAN by VeloCloud.

Who Should Attend:

The primary audience for this course is as follows:

- Experienced system administrators, network administrators, and system integrators responsible for designing and implementing networking solutions
- Network and security professionals who work with enterprise and data center networks

Prerequisites:

The knowledge and skills that the learner should have before attending this course are as follows:

- Extensive knowledge of routing and switching is required.
- You should also have the following understanding or knowledge:
 - Good understanding of TCP/IP services and protocols.
 - Knowledge and working experience of computer networking, including:
 - Switching and routing technologies (L2-L3)
 - Network and application delivery services (L4-L7)
- Basic understanding of IaaS, SaaS, and public and private cloud.
- The VMware Certified Professional – Network Virtualization (2020) certification is recommended.



Course Objectives:

Upon completing this course, the learner will be able to meet these overall objectives:

- Discuss the SD-WAN architecture and platform deployment model options.
- Identify and describe the SD-WAN solution components.
- Explain the interaction between the SD-WAN Edge, Orchestrator, and Gateway components.
- Describe the SD-WAN Software-Defined Networking (SDN) approach, traffic, and network flows.
- Explore SD-WAN core features and evaluate how these dramatically improve operational automation.
- Use SD-WAN features to perform simple, agile, and secure SD-WAN operations.
- Simplify branch infrastructure by inserting network services on the branch edge, in the cloud, or in the regional and enterprise data centers.



Course Outline:

Module 1: Course Introduction

- Introductions and course logistics
- Course objectives

Module 2: Introduction to VMware SD-WAN Solution

- Revisit the traditional WAN technology, WAN topologies and downsides
- Explain the challenges solved by Secure Access Service Edge (SASE) and use cases
- List the components of the VMware SASE™ solution
- Describe the VMware SD-WAN solution and list its capabilities

Module 3: VMware SD-WAN Components and Architecture

- Understand the architecture of the VMware SD-WAN solution and list all its components
- Explain the function of VMware SD-WAN Edges, Hub, Gateways, controllers, and Orchestrator
- Explain how the components of the VMware SD-WAN solution interact with each other

Module 4: Using VMware SD-WAN Orchestrator

- Describe key attributes of the VMware SD-WAN Orchestrator
- List primary features of the VMware SD-WAN Orchestrator
- Navigate the main menus of the VMware SD-WAN Orchestrator portal

Module 5: Deploy and Configure VMware SD-WAN

- Understand the deployment process of VMware SD-WAN components like VMware SD-WAN Edges, Hubs, Gateways, and more
- Understand the workflow of the VMware SD-WAN configuration
- List the optional network services that are supported by VMware and the steps to configure the same
- Understand the profiles and their application in the VMware SD-WAN infrastructure
- Describe the VMware SD-WAN Edge activation process

Course Outline (Cont.):

Module 6: Path and Traffic Management

- List the routing options supported by VMware SD-WAN: Static, BGP, OSPF
- Understand the Dynamic Multipath Optimization (DMPO) feature and its advantages
- Explain the Quality of Service and its configuration to manage traffic

Module 7: Securing VMware SD-WAN Environment

- Explain various options available to secure VMware SD-WAN environments.
- Understand the firewall capabilities and configuration

Module 8: Monitoring, Maintenance, and Troubleshooting

- List and understand the various features available to monitor the VMware SD-WAN infrastructure
- List and understand the various options available to troubleshoot and investigate issues in VMware SD-WAN