VERP-SDWDM
VMWARE SD-WAN: DEPLOY AND MANAGE

DURATION	LEVEL	TECHNOLOGY	DELIVERY METHOD	TRAINING CREDITS
2 Days	Intermediate	VMware	ILT / VILT	NA

INTRODUCTION

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.

AUDIENCE PROFILE

- 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

You must meet one of the following prerequisites:

- 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

After completing this course, delegates will be able to:

- Explain the key features and use cases for vSAN
- Detail the underlying vSAN architecture and components
- Describe the different vSAN deployment options
- Detail vSAN cluster requirements and considerations
- Apply recommended vSAN design considerations and capacity sizing practices
- Explain the influence of vSAN objects and components on the initial cluster plan
- Determine and plan for storage consumption by data growth and failure tolerance
- Design vSAN hosts for operational needs
- Explain Maintenance Mode use and its impacts on vSAN
- Apply best practices for vSAN network configurations
- Manually configure a vSAN cluster using VMware vSphere® Client™
- Explain and configure vSAN fault domains
- Understand and apply vSAN storage policies
- Define encryption in the vSAN cluster
- Describe the architecture and use cases for stretched clusters
- Configure a stretched cluster
- Understand the steps involved in creating the vSAN iSCSI target services

MODULES

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 SDWAN 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

Module 6: Path and Traffic Management
- List the routing options supported by VMware SDWAN: 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

ASSOCIATED CERTIFICATIONS & EXAM

There is no associated exam for this course.