



Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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Citrix NetScaler SD-WAN Hands-on Workshop

CODE:	LENGTH:	PRICE:
CTX-CNS-200	2 days	\$2,000.00

Description

In this two day NetScaler SD-WAN workshop, you will learn the various SD-WAN implementations and deployment modes available, and how to choose the one that is right for your organization.

Take a tour of the underlying architecture of SDWAN and learn how to differentiate between the various components. Understand how the different elements of SD-WAN come together to provide a better network experience.

Topics include:

- Quality of Service
- Classes of Service
- Rules
- Dynamic Routing,
- DHCP Services,
- Zero Touch Deployment and the SD-WAN management tools available.

This workshop is meant to be an open, interactive working session. Hands-on labs to be provided.

Prerequisites

- Understanding of different computer networks such as local area network (LAN) and wide area network (WAN)
- Familiarity with data-carrying techniques, including Multiprotocol Label Switching (MPLS), Metro Ethernet, and VPN tunneling
- Understanding of techniques for increasing data transfer efficiencies / WAN optimization
- General understanding of branch network technologies; Routing, Firewall, DHCP, Internet control, Quality of Service

Programme

Module 1: SD-WAN Overview

- An introduction to NetScaler SD-WAN and the different product platforms offerings. Learn about various SDWAN features, by edition, and the value they provide.
- Understand how SD-WAN fits into your environment, and how to utilize the management tools available to manage the NetScaler SD-WAN.

Module 2: SD-WAN Architecture

- Take a tour of the SD-WAN's underlying architecture.
- Topics include the packet processing and services architecture as well as the management architecture.
- Learn how the NetScaler Management and Analytics System (MAS) and SD-WAN Center can facilitate the management of your NetScaler deployment.

Module 3: SD-WAN Quality of Service

- Learn how Quality of Service fits into your NetScaler SD-WAN deployment and the various classes of services available.
- Gain an understanding of SD-WAN transmit modes including load balance paths, duplication paths, and override service.

Module 4: SD-WAN Deployment Modes and Configuration

- An introduction to the deployment modes available for NetScaler SD-WAN.
- Delve into the various configurations available to fit your networking needs.
- Topics include interface groups, virtual IP addresses, and WAN links.
- Gain an understanding of the Change Management feature and how it helps distribute information across your system.

Module 5: SD-WAN 9.0 Features

- Explore the NetScaler SD-WAN 9.0 features. Topics include Metered Links, IPsec, and MPLS QoS Queues.
- Discover how these feature sets can provide your organization with the right toolset to optimize your networking experience.

Module 6: SD-WAN 9.1 Features

- Take a tour of the NetScaler SD-WAN 9.1 features in this module.
- Gain an understanding of dynamic routing, virtual routing and forwarding, secure internet breakout, DHCP, IPsec VPN termination, and zero touch deployment.

Module 7: SD-WAN 9.2 Features

-In this module, you will gain an understanding of the new features SD-WAN 9.2 has to offer.

-These include: application classification, top application reporting, stateful firewall, network address translation, and management and platform enhancements

Exercise 1:

-SD-WAN Installation Design

Exercise 2:

-Configuration of the Head-End SD-WAN

Exercise 3:

-Configure the remote office SD-WAN node

Exercise 4:

-Configure the SD-WAN path relationships

Exercise 5:

-Provision the MCN using the saved configuration

Exercise 6:

-Applying the Configuration to the Remote Appliance

Exercise 7:

Troubleshooting the dead path state

Exercise 8:

-SD-WAN Quality of Service

Exercise 9:

-SD-WAN Center deployment and configuration

Exercise 10:

-Use SD-WAN Center to calculate MOS

Exercise 11:

-Prepare the environment with a working configuration

Exercise 12:

-Validating bandwidth aggregation

Exercise 13:

-Customization of the Rules and Classes

Exercise 14:

-Metered Links

Exercise 15:

-MPLS Queues

Exercise 16:

-IPsec data encryption

Exercise 17:

-Path state sensitivity control

Exercise 18:

-Dynamic routes

Exercise 19:

-DHCP review

Exercise 20:

-Virtual routing and forwarding

Exercise 21:

-Zero Touch deployment

Session Dates

On request. Please [contact us](#)

Additional Information

[This training is also available as onsite training. Please contact us to find out more.](#)