

Fortinet NSE 7 - SD-WAN

This intermediate Fortinet NSE 7 - SD-WAN training prepares network security admins to configure and manage some of Fortinet's most advanced security features for their family of SD-WAN network solutions. In addition to specific, applicable administration and configuration skills, this Fortinet SD-WAN course will prepare you for one of the concentration exams needed to earn the NSE 7.

[CBT Nuggets course material](#) →

WEEK 1

Building a Fortinet SD-WAN Lab

155 min.

Intro to Building a Fortinet SD-WAN Lab	1
SD-WAN Overview	11
SD-WAN Lab Design	9
Prepping the DC-10 FortiGate	16
Test and Verify DC-10	4
Behind the Curtain	13

Configure Fortinet SD-WAN Direct Internet Access

Overview	1
Intro to FortiGate SD-WAN Direct Internet Access (DIA)	1
FortiGate SD-WAN Direct Internet Access (DIA) Overview	5
SD-WAN Direct Internet Access Design	5
Create SD-WAN Zone and Members	6
Update NAT and Security Policies for SD-WAN	3
Update Routing for SD-WAN	3
Testing SD-WAN DIA	4
Using a Performance SLA	7
Configuring SD-WAN Rules	6
Testing SD-WAN Rules	4

Using FortiManager with SD-WAN

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FortiManager and SD-WAN Overview and Game Plan	5
Adding Site-30 to FortiManager	8
Import SD-WAN to FortiManager Template	3

Create Static Route and Logging Templates	9
Adding a Second Site FGT to FortiManager	15
Adding DC-10 and DC-20 to FMG	12

WEEK 2

164 min.

Adding an SD-WAN Member to the Template	7
Test and Verify SD-WAN	14

Configure IPsec VPNs with FortiManager

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Overview and Game Plan	5
Create the VPN Community	7
Add FortiGates to VPN Community	11
Configure a Normalized Interface	2
Configure Firewall Policies	9
Configure Routing	5
Verify and Monitor IPsec	8

Integrating IPsec in Fortinet SD-WAN

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Game Plan	4
Create 4 VPN Communities	4
Add FortiGates to VPN Communities	9
Create Overlay SD-WAN Zone	4
Update Routing on Spokes	4

Firewall Policies to Allow VPN Traffic	7
Add IPsec Tunnels as Zone Members	6
Test and Verify	12

Using the Fortinet SD-WAN Overlay Template

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Overview of SD-WAN Overlay Templates	6
Game Plan and Base Topology	10
Create an SD-WAN Overlay Template	14

WEEK 3

160 min.

Verify Results of OV Template	8
BGP Template Review	7
Edit Policy Packages	7
Verify SD-WAN Overlay Template Results	14

Troubleshooting Fortinet SD-WAN DIA

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Overview of Troubleshooting SD-WAN DIA	9
SD-WAN DIA and Overlay Design	3
Update SD-WAN Overlay to Dual Hub	10
Implementing SD-WAN DIA On Spokes	9
Default Routes for Spokes	6
Central SNAT Policies for Branches	6
Firewall Policies for Branch Routers	7
Add SD-WAN DIA for DC-10 and DC-20	15

Using Fortinet SD-WAN Fallback RIA

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Intro to SD-WAN Backup RIA	1
DIA and with Fallback RIA Overview	7
DIA and RIA Game Plan	4
Setup SD-WAN Topology	13
Rules for Forwarding	7
Testing DIA and VPN	8
Add SD-WAN to DC	14

WEEK 4

159 min.

Modify Branch Rules to Test RIA	6
Adding SLAs and Rules for Fallback to RIA	14

Working with Fortinet SD-WAN SLAs & Rules

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Using Best Quality in Rules	10
Using Lowest Cost in Rules	11
Using Maximize Bandwidth in Rules	11
Application Based SD-WAN Rules	15

Configuring Fortinet SD-WAN Traffic Shaping

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Using a Per-IP Traffic Shaper	8
Verifying Per-IP Traffic Shaping	5
Using a Shared Traffic Shaper	9

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15 min.

Testing the Shared Traffic Shaping	5
Using Shaping Profiles	9