

# SD-WAN Architecture: How to Deploy Cisco SD-WAN Controllers

This course explains how to deploy the tools that dictate how the network should behave: SD-WAN controllers. When properly deployed, SD-WAN controllers manage the rest of the network devices as they route traffic back and forth. This course shows you why they're crucial and how to deploy them properly. After finishing this Cisco training, you'll know how to prepare your Cisco network for full SD-WAN functionality by configuring and deploying SD-WAN controllers.

[CBT Nuggets course material](#) →

## WEEK 1

### Build an SD-WAN Practice Lab

151 min.

Introduction SD-WAN Lab	1
SD-WAN Lab Design	3
Virtualization Platform	4
Controller CLI Bootstrap Configuration	9
Infrastructure Routing	4
Linux Initial Configuration	6
CA Preparation on Linux	5
Using an Enterprise Certificate	5
Signed Certificates for Controllers	7
Controller Tunnel Interfaces	2
vEdge Bootstrap Commands	3
vEdge Certificates	3
WAN Edge Lists	6
Activating vEdge	4
cEdge Deployment	9
Summary	1

### Describe Cloud and On-Prem Controller Deployments

Overview	1
Intro	1
Cisco Cloud Service	5
Private Deployment Model	5
Controller VPNs	7
Review and Quiz	4

### Bootstrapping on-Prem Controllers

Overview	1
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Introduction	1
Planning and Design	5
vManage Initial Configuration	9
vSmart Initial Configuration	5
vBond Initial Configuration	5
Summary	1

### **Configure and Verify Certificates**

Overview	1
Introduction to Certificates	1
Certificates Overview	4
Enable an Enterprise Root Certificate	10
Create Signed Certs for Controller Network	6
Install Signed Certs on Controller Network	4

## **WEEK 2**

**31 min.**

Add Tunneling and Verify Certs	3
Summary	1

### **Troubleshoot SD-WAN Controller Issues**

Overview	1
Troubleshoot the Control Plane	1
Consider Your Design First	4
Check the Obvious Culprits	6
The Show Commands	8
Debugging and Logging	4
Summarizing Control Plane Troubleshooting	1