

Juniper JNCIS-DC: Data Center Specialist (JN0-481)

This JNCIS-DC training teaches you to manage modern data center networks using intent-based automation. You'll learn how Juniper Apstra simplifies the full data center lifecycle, from design and deployment to operations and troubleshooting. You'll also prepare for your JNCIS-DC certification by learning how EVPN-VXLAN spine-leaf fabrics are built, and how Apstra abstracts their complexity through blueprints, templates, and analytics. When you've finished this JNCIS-DC training, you'll be able to design scalable fabrics, deploy changes safely, and troubleshoot issues using intent-based visibility.

[CBT Nuggets course material](#) →



WEEK 1

Understanding VXLAN

Why We Use VXLAN

Where EVPN Fits In

VTEPs and VNIs

L2 and L3 Gateways

CHALLENGE

Understanding EVPN

Introducing EVPN

PIM vs EVPN

EVPN Key Terms

EVPN NLRIs

Type 2 NLRI

Type 5 NLRI

CHALLENGE

Identify Apstra Architecture and Features

Introducing Apstra

Getting Apstra for a Lab - the Apstra Server

Intent Based Networking Defined

Vendors and Agents

Role Based Access Controls

Event Logs and Syslog Exports

CHALLENGE

Design Your Data Center in Apstra

Introducing the Design Phase

The Plan and the UI

Reserve Resources (Pools)

Logical Devices

Interface Maps (and Device Profiles)

Racks

Templates

Blueprints

CHALLENGE

Build and Deploy with Apstra

Introducing Build and Deploy Phase

Refreshing our Intent

Discover Devices to Manage

Create a Blueprint and Assign Resource Pools

Assign Device Profiles and Interface Maps

Assign System IDs

Commit the Changes

Review the Changes

CHALLENGE

Monitor and Maintain Blueprints

Introducing Blueprint Maintenance

Probe and Service Anomalies

Root Cause Analysis

Blueprint Tabs

Change an Active Blueprint and Then Revert it

Create a Configlet

Add New Racks and Generic Systems

CHALLENGE

Create VRFs and VNIs for Multitenancy

Introducing Multitenancy in Apstra

Understand Concepts of Multitenancy

Create Routing Zones (aka VRFs)

Assign Resources to RZ

Create a VXLAN Virtual Network

Assign Resources

Update Connectivity Template

Commit and Test

CHALLENGE

Intent-Based Analytics

Introducing Intent-Based Analytics

Define Intent-Based Analytics

Understand and Explore Telemetry Services

Understand and Explore Auto-Enabled Probes

Create an IBA Probe with the Pre-Defined Catalog

Graph Explorer

Graph Queries

CHALLENGE