

JNCIE Data Center Self-Study Bundle (JNCIE-DC)

COURSE OVERVIEW

Juniper Networks' JNCIE-DC Certification Self-Study Bundle is a hands-on guide to validate your skills needed to pass the official JNCIE-DC lab exam. The guide is based on the official JNCIE-DC exam blueprint. Each chapter covers several technologies with expert-level configuration tasks and detailed answers. In this workbook you will find several technology introductions. However, do not expect a full explanation about Apstra, OSPF, BGP, etc as there are other resources available for prerequisite knowledge. The guide contains two full practice exams to simulate a real JNCIE-DC lab exam. This guide is targeted at JNCIP-DC certified engineers who are studying for the expert-level certification and need extra help preparing for the exam.

With the purchase of this self-study bundle, you will be provided with access to the course materials via Online Secure PDF, a secure PDF workbook of technology-specific lessons and exercises and two JNCIE-DC practice exams (Super Labs), and one year of lab access with up to 10 hours of lab access per reservation (Maximum of 50 reservations, default reservation is 4 hours).

COURSE LEVEL

Advanced

INTENDED AUDIENCE

Individuals who have honed their skills on data center technologies and could use practice and tips in preparation for the JNCIE-DC exam

PREREQUISITES

Currently certified in the Juniper Networks Certified Internet Professional—Data Center (JNCIP-DC) written exam, or achieved an equal level of expertise through Education Services courseware and hands-on experience

RELATED CERTIFICATION

[JNCIE-SP](#)

CONTACT YOUR REGIONAL EDUCATION SERVICES TEAM:

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OBJECTIVES

After successfully completing this course, you should be able to:

- Prepare for success in taking the JNCIE-DC exam.
- Describe exam topics, environment, and conditions.

COURSE CONTENT

1

Layer 3 Underlay

- Apstra Managed Underlay
- Controllerless Underlay

2

Overlay

- Apstra Managed EVPN/VXLAN Overlay
- Controllerless EVPN/VXLAN Overlay
- EVPN Multihoming
- Layer 3 Multitenancy
- Inter and Intra Tenant communication
- **Layer 2 Tenants**

3

Data Center Interconnect

- Apstra Managed Overlay and EVPN DCI
- Controllerless Overlay and EVPN DCI
- Inter and Intra Tenant Communication

Continued on the next page.

COURSE CONTENT (CONT'D)

4

Management

- System Logging
- Juniper Apstra Telemetry
- API support
- LLDP
- Juniper Apstra Analytics
- Multicast Optimization

5

Security

- Juniper Apstra Security
- Control Plane Security
- Data Plane Security
- Layer 2 Protection Features
- Juniper Apstra Authentication and Authorization

6

Class of Service

- Schedulers, Scheduler Maps, and Forwarding Classes
- Apstra Managed Class of Service
- Multifield Classification

7

Superlab

- Underlay tasks
- Overlay tasks
- Data Center Interconnect tasks
- Management tasks
- Security tasks
- Class of Service tasks

8

Superlab

- Underlay tasks
- Overlay tasks
- Data Center Interconnect tasks
- Management tasks
- Security tasks
- Class of Service tasks

A1

Appendix Chapter 1: Layer 3 Underlay

- Configuration and verification commands
 - Apstra Managed Underlay
 - Controllerless Underlay

A2

Appendix Chapter 2: Overlay

- Configuration and verification commands
 - Apstra Managed EVPN/VXLAN Overlay
 - Controllerless EVPN/VXLAN Overlay
 - EVPN Multihoming
 - Layer 3 Multitenancy
 - Inter and Intra Tenant communication
 - Layer 2 Tenants

A3

Appendix Chapter 3: Data Center Interconnect

- Configuration and verification commands
 - Apstra Managed Overlay and EVPN DCI
 - Controllerless Overlay and EVPN DCI
 - Inter and Intra Tenant Communication

A4

Appendix Chapter 4: Management

- Configuration and verification commands
 - System Logging
 - Juniper Apstra Telemetry
 - API support
 - LLDP
 - Juniper Apstra Analytics
 - Multicast Optimization

A5

Appendix Chapter 5: Security

- Configuration and verification commands
 - Juniper Apstra Security
 - Control Plane Security
 - Data Plane Security
 - Layer 2 Protection Features
 - Juniper Apstra Authentication and Authorization

A6

Appendix Chapter 6: Class of Service

- Configuration and verification commands
 - Schedulers, Scheduler Maps, and Forwarding Classes
 - Apstra Managed Class of Service
 - Multifield Classification

Continued on the next page.

COURSE CONTENT (Cont'd)

A7

Superlab

- Configuration and verification commands
 - Underlay tasks
 - Overlay tasks
 - Data Center Interconnect tasks
 - Management tasks
 - Security tasks
 - Class of Service tasks

A8

Superlab

- Configuration and verification commands
 - Underlay tasks
 - Overlay tasks
 - Data Center Interconnect tasks
 - Management tasks
 - Security tasks
 - Class of Service tasks