

# DATA CENTER, PROFESSIONAL (JNCIP-DC)

*Earn a professional-level certification that demonstrates competency in advanced data center technologies, configuration, and troubleshooting skills.*

One of four certifications in the Data Center track, JNCIP-DC, Professional, is designed for experienced data center experts with advanced knowledge of Juniper Networks® Junos® software and data center devices. During the written exam, you will verify your understanding of data center technologies, related platform configuration, and troubleshooting skills.

## Exam Preparation

We recommend the following resources to help you prepare for your exam. However, these resources aren't required, and using them doesn't guarantee you'll pass the exam.

### Recommended Training

- [Implementing Data Center Fabric with EVPN and VXLAN](#)

### Exam Resources

- Industry/product knowledge
- [Juniper TechLibrary](#)

### Additional Preparation

- [Juniper Learning Portal](#)

## Exam Objectives

Here is a high-level view of the skillset required to successfully complete the JNCIP-DC certification exam.

### Data Center Deployment and Management

Describe data center deployment concepts:

- Zero-touch provisioning (ZTP)
- Dynamic Host Configuration Protocol (DHCP)

Describe data center management concepts:

- Monitoring
- Analytics (telemetry)

### Layer 3 Fabrics

Describe IP fabric concepts:

- IP fabric architecture
- IP fabric routing
- IP fabric scaling
- IP fabric CoS—Remote Direct Memory Access (RDMA), Remote Direct Memory Access over Converged Ethernet (RoCE)
- IP fabric best practices

Demonstrate knowledge of configuring, monitoring, or troubleshooting an IP fabric.

### VXLAN

Describe Virtual Extensible LAN (VXLAN) concepts:

- VXLAN control planes
- Data plane

Demonstrate knowledge of configuring, monitoring, or troubleshooting VXLAN.

### EVPN-VXLAN Signaling

Describe Ethernet VPN (EVPN) concepts:

- Route types
- EVPN multicast
- Multiprotocol BGP (MBGP)
- EVPN architectures—Centrally Routed Bridging (CRB) and Edge Routed Bridging (ERB)
- MAC learning
- Symmetric routing

Demonstrate knowledge of configuring, monitoring, or troubleshooting EVPNs.

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## Data Center Interconnect

Describe Data Center Interconnect (DCI) concepts.

- Interconnect network types
- Layer 2 and Layer 3 stretch
- Stitching
- EVPN-signaled VXLAN for DCI

Demonstrate knowledge of configuring, monitoring, or troubleshooting DCI.

## Data Center Multitenancy and Security

Describe single tenant and multitenant architectures:

- Tenant traffic isolation (Layer 2 or Layer 3)
- Multitenancy (routing instances, for example)

Describe data center security concepts:

- Filter-based forwarding
- Group-based policy (GBP)

## Exam Details

Exam questions are derived from the recommended training and the exam resources listed above. Pass/fail status is available immediately after taking the exam. The exam is only provided in English.

## Exam Code

JNO-683

## Prerequisite Certification

JNCIS-DC or JNCIS-ENT

## Delivered by

Pearson VUE

## Exam Length

90 minutes

## Exam Type

65 multiple-choice questions

## Software Versions

Junos OS: 23.4

## Recertification

Juniper certifications are valid for three years. For more information, please see [Recertification](#).

## About Juniper Networks

Juniper Networks believes that connectivity is not the same as experiencing a great connection. Juniper's AI-Native Networking Platform is built from the ground up to leverage AI to deliver the best and most secure user experiences from the edge to the data center and cloud. Additional information can be found at Juniper Networks ([www.juniper.net](http://www.juniper.net)) or connect with Juniper on X (Twitter), LinkedIn, and Facebook.

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