Juniper Networks learning paths

Juniper Networks Education Services

July 2024
Juniper Networks Certification Program framework and additional courses

Routing and Switching
- Expert: JNCIE-SP, JNCIE-ENT
- Professional: JNCIP-SP, JNCIP-ENT
- Specialist: JNCIS-SP, JNCIS-ENT
- Associate: JNClA-Junos

Data Center
- Expert: JNCIE-DC
- Professional: JNCIP-DC
- Specialist: JNCIS-DC
- Associate: JNClA-DC

Security
- Expert: JNCIE-SEC
- Professional: JNCIP-SEC
- Specialist: JNCIS-SEC
- Associate: JNClA-SEC

Automation and DevOps
- Expert: JNCIE-MistAI
- Professional: JNCIP-MistAI
- Specialist: JNCIS-MistAI
- Associate: JNClA-MistAI

Mist AI

Service Provider Routing and Switching
- Expert: JNCIE-SP
- Professional: JNCIP-SP
- Specialist: JNCIS-SP
- Associate: JNClA-Junos

Enterprise Routing and Switching
- Expert: JNCIE-ENT
- Professional: JNCIP-ENT
- Specialist: JNCIS-ENT
- Associate: JNClA-Junos

Data Center
- Expert: JNCIE-DC
- Professional: JNCIP-DC
- Specialist: JNCIS-DC
- Associate: JNClA-DC

Security
- Expert: JNCIE-SEC
- Professional: JNCIP-SEC
- Specialist: JNCIS-SEC
- Associate: JNClA-SEC

Automation and DevOps
- Expert: JNCIE-MistAI
- Professional: JNCIP-MistAI
- Specialist: JNCIS-MistAI
- Associate: JNClA-MistAI

Mist AI

Information as of July 2024. Refer to www.juniper.net/certification for the most current information.
## Juniper Networks
### Junos-Based Curriculum

<table>
<thead>
<tr>
<th>Certification</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Service Provider Routing &amp; Switching</strong></td>
<td><strong>Enterprise Routing &amp; Switching</strong></td>
</tr>
<tr>
<td>JNCIE-SP</td>
<td>JNCIE-ENT</td>
</tr>
<tr>
<td>JNCIE-SP Self-Study Bundle</td>
<td>JNCIE-ENT</td>
</tr>
<tr>
<td>JNCIP-SP</td>
<td>JNCIP-ENT</td>
</tr>
<tr>
<td>Junos Layer 2 VPNs</td>
<td>Advanced Junos Enterprise Routing</td>
</tr>
<tr>
<td>Junos Layer 3 VPNs</td>
<td></td>
</tr>
<tr>
<td>Advanced Junos Service Provider Routing</td>
<td>JNCIS-SP</td>
</tr>
<tr>
<td>Junos MPLS Fundamentals</td>
<td>Junos Enterprise Switching</td>
</tr>
<tr>
<td>Junos Service Provider Switching</td>
<td>Junos Intermediate Routing</td>
</tr>
<tr>
<td>JNCIS-ENT</td>
<td>JNCIS-ENT</td>
</tr>
<tr>
<td>Junos Enterprise Switching</td>
<td>Data Center Automation using Juniper Apstra</td>
</tr>
<tr>
<td>Junos Intermediate Routing</td>
<td></td>
</tr>
</tbody>
</table>

**Notes:** Information current as of July 2024. Course and exam information (length, availability, content, etc.) is subject to change; refer to [www.juniper.net/training](http://www.juniper.net/training) for the most current information.
# Juniper Networks Curriculum

## Service provider routing and switching

<table>
<thead>
<tr>
<th>Certification</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Juniper Networks Certified Expert, Service Provider Routing and Switching (JNCIE-SP)</strong></td>
<td></td>
</tr>
<tr>
<td>JNCIE-SP Self-Study Bundle</td>
<td>On-Demand</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Certification</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Juniper Networks Certified Professional, Service Provider Routing and Switching (JNCIP-SP)</strong></td>
<td></td>
</tr>
<tr>
<td>Junos Layer 2 VPNs</td>
<td>3 days</td>
</tr>
<tr>
<td>Junos Layer 3 VPNs</td>
<td>3 days</td>
</tr>
<tr>
<td>Advanced Junos Service Provider Routing</td>
<td>5 days</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Certification</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Juniper Networks Certified Specialist, Service Provider Routing and Switching (JNCIS-SP)</strong></td>
<td></td>
</tr>
<tr>
<td>Junos MPLS Fundamentals</td>
<td>3 days</td>
</tr>
<tr>
<td>Junos Service Provider Switching</td>
<td>2 days</td>
</tr>
<tr>
<td>Junos Intermediate Routing</td>
<td>3 days</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Certification</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Juniper Networks Certified Associate, Junos (JNCIA-Junos)</strong></td>
<td></td>
</tr>
<tr>
<td>Introduction to the Junos Operating System</td>
<td>4 days</td>
</tr>
<tr>
<td>Getting Started with Networking</td>
<td>5 hours</td>
</tr>
</tbody>
</table>

### Notes:
Information current as of July 2024. Course and exam information (length, availability, content, etc.) is subject to change; refer to [www.juniper.net/training](http://www.juniper.net/training) for the most current information.

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See also:
Courses in WAN Technologies including Cloud Metro and WAN Automation, Protocol, Subscriber and Service Management

Advanced Junos Troubleshooting | 3 days
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Junos Troubleshooting | 2 days

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On-Demand

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Courses in WAN Technologies including Cloud Metro and WAN Automation, Protocol, Subscriber and Service Management

Advanced Junos Troubleshooting | 3 days
## Juniper Networks Curriculum
### WAN Technologies

<table>
<thead>
<tr>
<th>Junos OS Evolved</th>
<th>Cloud Metro and WAN Automation</th>
<th>Protocol Management</th>
<th>Subscriber and Service Management</th>
<th>Related Training</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Junos OS Evolved for Cloud Networking</em></td>
<td><em>Implementing Juniper Paragon Automation</em></td>
<td><em>Junos Multicast Routing</em></td>
<td><em>Junos Class of Service</em></td>
<td><em>Deploying and Managing SD-WAN with Juniper Mist AI</em></td>
</tr>
<tr>
<td>3 days</td>
<td>3 days</td>
<td>2 days</td>
<td>2 days</td>
<td>2 Days</td>
</tr>
<tr>
<td><em>Implementing Juniper Paragon Pathfinder and Planner Applications</em></td>
<td>4 days</td>
<td><em>Junos IP version 6</em></td>
<td>2 days</td>
<td>4 days</td>
</tr>
<tr>
<td><em>Paragon Active Assurance for Automated WAN</em></td>
<td>2 days</td>
<td><em>Circuit to Packet</em></td>
<td>On-Demand</td>
<td>On-Demand</td>
</tr>
<tr>
<td><em>Introduction to Paragon Active Assurance</em></td>
<td>1 hour</td>
<td><em>Junos Segment Routing</em></td>
<td>1 day</td>
<td>On-Demand</td>
</tr>
<tr>
<td></td>
<td></td>
<td><em>DiffServ-Aware MPLS Traffic Engineering</em></td>
<td>1 day</td>
<td></td>
</tr>
</tbody>
</table>

### Notes:
Information current as of July 2024. Course and exam information (length, availability, content, etc.) is subject to change; refer to www.juniper.net/training for the most current information.

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Juniper Networks Curriculum
Enterprise routing and switching

Juniper Networks Certified Expert, Enterprise Routing and Switching (JNCIE-ENT)
- JNCIE-ENT Self-Study Bundle: On-Demand

Juniper Networks Certified Professional, Enterprise Routing and Switching (JNCIP-ENT)
- Advanced Junos Enterprise Switching: 2 days, On-Demand
- Advanced Junos Enterprise Routing: 5 days, On-Demand

Juniper Networks Certified Specialist, Enterprise Routing and Switching (JNCIS-ENT)
- Junos Enterprise Switching: 2 days, On-Demand
- Junos Intermediate Routing: 3 days, On-Demand

Optional: Continue to Juniper Networks Certified Professional, Data Center (JNCIP-DC)

Advanced Junos Troubleshooting: 3 days
Junos Troubleshooting: 2 days

Notes: Information current as of July 2024. Course and exam information (length, availability, content, etc.) is subject to change; refer to www.juniper.net/training for the most current information.
Juniper Networks Curriculum

Data center

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**Notes:**
1. The Introduction to the Junos Operating System course is recommended before taking the Introduction to Juniper Data Center Networking course.
2. The JNCIA-DC or JNCIS-ENT meet the prerequisite for the JNCIS-DC.
3. Students should have extensive experience with EVPN and VXLAN or take the Data Center Fabric with EVPN and VXLAN course before attending the Data Center Automation Using Juniper Apstra Freeform course. Information current as of June 2024. Course and exam information (length, availability, content, etc.) is subject to change; refer to [www.juniper.net/training](http://www.juniper.net/training) for the most current information.

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**Certification**

**Course**

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**Juniper Networks Certified Expert,**
Data Center (JNCIE-DC)

- JNCIE-DC Self-Study Bundle
  - On-Demand

**Juniper Networks Certified Professional,**
Data Center (JNCIP-DC)

- Implementing Data Center Fabric with EVPN and VXLAN
  - 5 days
  - On-Demand

- Advanced Data Center Automation Using Juniper Apstra
  - 2 days

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**Juniper Networks Certified Specialist,**
Enterprise Routing and Switching (JNCIS-ENT)

- Junos Enterprise Switching
  - 2 days
  - On-Demand

- Junos Intermediate Routing
  - 2 days
  - On-Demand

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**Juniper Networks Certified Associate,**
Junos (JNCIA-Junos)

- Introduction to the Junos Operating System
  - 4 days
  - On-Demand

- Getting Started with Networking
  - 5 hours

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**Related Training**

**Automation and DevOps Learning Path**

- Introduction to Juniper Apstra
  - 1 hour

- Junos OS Evolved for Cloud Networking
  - 3 days

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**Juniper Networks Certified Specialist,**
Data Center (JNCIS-DC)

- Data Center Automation Using Juniper Apstra
  - 5 days

- Data Center Automation Using Juniper Apstra Freeform
  - 5 days

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**Juniper Networks Certified Associate,**
Data Center (JNCIA-DC)

- Introduction to Juniper Data Center Networking
  - 3 days
  - On-Demand
Juniper Networks Curriculum

Security

Service Provider Security

Public Cloud Security

Network Security

SASE

Management and Analytics

Juniper Networks Certified Expert, Security (JNCIE-SEC)

JNCIE-SEC Self-Study Bundle | On-Demand

Juniper Networks Certified Professional, Security (JNCIP-SEC)

Advanced Juniper Security | 4 days
On-Demand

Juniper Networks Certified Specialist, Security (JNCIS-SEC)

Juniper Security | 5 days
On-Demand

Juniper Networks Certified Associate, Security (JNCIA-SEC)

Introduction to Juniper Security | 3 days
On-Demand

Juniper Service Provider Edge Security | 3 days

Deploying Juniper Security in AWS and Azure | 4 days

Managing Juniper Security Director Cloud | 2 days

Implementing Juniper Networks Secure Analytics | 3 days

Deploying and Managing SD-WAN with Juniper Mist AI | 2 days

Deploying Juniper Security Service Edge | 3 days

Juniper Advanced Threat Prevention | 2 hours

Junos Space—Security Director Cloud | 2 days

Juniper Advanced Threat Prevention

Related Training

Notes: Information current as of July 2024. Course and exam information (length, availability, content, etc.) is subject to change; refer to www.juniper.net/training for the most current information.
## Juniper Networks Curriculum

### Automation

#### Platform Automation

<table>
<thead>
<tr>
<th>Course</th>
<th>Duration</th>
<th>Format</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Junos Platform Automation and DevOps</td>
<td>4 days</td>
<td>On-Demand</td>
</tr>
<tr>
<td>Juniper Networks Certified Specialist, Automation and DevOps (JNCIS-DevOps)</td>
<td>5 days</td>
<td>On-Demand</td>
</tr>
<tr>
<td>Juniper Networks Certified Associate, Automation and DevOps (JNCIA-DevOps)</td>
<td>3 days</td>
<td>On-Demand</td>
</tr>
</tbody>
</table>

#### Data Center Automation

<table>
<thead>
<tr>
<th>Course</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data Center Automation using Juniper Apstra</td>
<td>5 days</td>
</tr>
</tbody>
</table>

#### WAN Automation

<table>
<thead>
<tr>
<th>Course</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Implementing Juniper Paragon Automation</td>
<td>3 days</td>
</tr>
<tr>
<td>Implementing Juniper Paragon Pathfinder and Planner Applications</td>
<td>4 days</td>
</tr>
<tr>
<td>Paragon Active Assurance for Automated WAN</td>
<td>2 days</td>
</tr>
</tbody>
</table>

#### Enterprise Automation

<table>
<thead>
<tr>
<th>Course</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Juniper Mist AIOps</td>
<td>3 Days</td>
</tr>
</tbody>
</table>

**Notes:** 1. See [Data Center learning path](#) for complete data center training and certification details. Information current as of July 2024. Course and exam information (length, availability, content, etc.) is subject to change; refer to [www.juniper.net/training](http://www.juniper.net/training) for the most current information.
Notes: 1. The Deploying and Managing Juniper Networks Campus Switching with Mist AI course is a recommended prerequisite to the Deploying and Managing Juniper Wired Networks for Campus and Branch with Mist AI course. Information current as of June 2024. Course and exam information (length, availability, content, etc.) is subject to change; refer to www.juniper.net/training for the most current information.
Juniper Networks Curriculum
Cloud Technologies

Cloud Core Technologies

<table>
<thead>
<tr>
<th>Certification</th>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>Juniper Networks Certified Associate, Cloud (JNCIA-Cloud)</td>
<td></td>
</tr>
<tr>
<td>Juniper Cloud Fundamentals</td>
<td>3 days On-Demand</td>
</tr>
<tr>
<td>Getting Started with Cloud</td>
<td>4 hours</td>
</tr>
</tbody>
</table>

Notes: 1. Attendance of the Introduction to the Junos Operating System course is strongly recommended prior to the Juniper Cloud Fundamentals course. Information current as of July 2024. Course and exam information (length, availability, content, etc.) is subject to change; refer to www.juniper.net/training for the most current information.
**Juniper Networks Curriculum Support**

<table>
<thead>
<tr>
<th>Course</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Junos Troubleshooting</td>
<td>3 days</td>
</tr>
<tr>
<td>Junos Troubleshooting</td>
<td>2 days</td>
</tr>
<tr>
<td>Introduction to the Junos Operating System</td>
<td>4 days</td>
</tr>
<tr>
<td>Juniper Technical Support Fundamentals</td>
<td>On-Demand</td>
</tr>
<tr>
<td>Getting Started with Networking</td>
<td>5 hours</td>
</tr>
</tbody>
</table>

**Note:** The professional-level courses in the Service Provider Routing and Switching, Enterprise Routing and Switching, and Junos Security learning paths contain additional troubleshooting training.

**Notes:** Information current as of July 2024. Course and exam information (length, availability, content, etc.) is subject to change; refer to [www.juniper.net/training](http://www.juniper.net/training) for the most current information.
Juniper Networks Curriculum
Design

Juniper Networks Certified Associate, Design (JNCIA-Design)

<table>
<thead>
<tr>
<th>Juniper Networks Design Fundamentals</th>
<th>3 days</th>
</tr>
</thead>
<tbody>
<tr>
<td>On-Demand</td>
<td></td>
</tr>
</tbody>
</table>

Notes: Information current as of July 2024. Course and exam information (length, availability, content, etc.) is subject to change; refer to www.juniper.net/training for the most current information.
Juniper Networks Curriculum

Junos Space

Notes: Information current as of July 2024. Course and exam information (length, availability, content, etc.) is subject to change; refer to www.juniper.net/training for the most current information.
Note: These courses teach foundational, industry-standard content and are not-related to each other. They may be taken in any order.

Notes: Information current as of July 2024. Course and exam information (length, availability, content, etc.) is subject to change; refer to www.juniper.net/training for the most current information.
Delivery methods

**Private Training - Standard or Customized Delivery:** [www.juniper.net/privatetraining](http://www.juniper.net/privatetraining)

Contact us: training-amer@juniper.net, training-emea@juniper.net, or training-apac@juniper.net

Juniper will host a private, instructor-led class for up to 16 students. Training can be delivered at a customer’s facility, virtually (remote instructor and remote students), or a blend of both onsite with remote students. Private classes can be customized based on the client’s exact needs.

**On-Demand Courses:** [www.juniper.net/ondemand](http://www.juniper.net/ondemand)

Each course includes self-paced, eLearning modules along with access to real online lab exercises. Students perform the same detailed lab exercises that are taught in instructor-led classes. Courses include six months of access to the materials and lab environment.

**Open Enrollment Classes:** [www.juniper.net/courses](http://www.juniper.net/courses)

Juniper hosts public classrooms in which the customer can send one or more students to attend. Training will be attended either virtually or at a Juniper or Education Partner’s facility.

**All-Access Training Pass:** [www.juniper.net/allaccess](http://www.juniper.net/allaccess)

Access to all instructor-led and On-Demand Juniper courses, for one low price, for a full year. Available for individuals, groups, teams, and enterprises.