



Enterprise Computing Solutions - Education Services

## NABÍDKA ŠKOLENÍ

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**Prosím kontaktujte nás zde**

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Kód:	DÉLKA:	CENA:
JUN_JIR	24 Hours (3 DENNÍ)	Kč bez DPH 70,000.00

## Description

Školení je vedeno virtuálně v anglickém jazyce ve školicím středisku Arrow v Anglii.

Cena školení je 1 495 GBP bez DPH - tato cena bude při fakturaci přepočtena aktuálním kurzem.

This two-day course provides students with intermediate routing knowledge and configuration examples. The course includes an overview of protocol-independent routing features, load balancing and filter-based forwarding, OSPF, BGP, IP tunneling, and high availability (HA) features. Through demonstrations and hands-on labs, students will gain experience in configuring and monitoring the Junos OS and monitoring device operations. This course uses Juniper Networks vSRX Series Services Gateways for the hands-on component, but the lab environment does not preclude the course from being applicable to other Juniper hardware platforms running the Junos OS.

This course is based on Junos OS Release 21.1R1.11.

Course Level

Junos Intermediate Routing (JIR) is an intermediate-level course.

Relevant Juniper Product

• Automation • Junos OS • M Series • MX Series • PTX Series • QFX Series • SRX Series • T Series

## Cíle

Implement static routing within Junos OS

Implement routing instances within Junos OS

Describe routing instances

Configure and share routes between routing instances

Implement load balancing within Junos OS

Implement filter-based forwarding within Junos OS

Implement OSPF within Junos OS

Deploy OSPF within Junos OS

Implement BGP within Junos OS

Deploy BGP within Junos OS

Implement IP tunneling within Junos OS

Implement graceful routing and bidirectional forwarding detection within Junos OS

Implement high availability features—GRES, NSR, and unified ISSU within Junos OS

Implement VRRP within Junos OS

Implement IPv6 within Junos

Implement IS-IS within Junos OS

## Určeno pro

This course benefits individuals responsible for configuring and monitoring devices running the Junos OS.

## Vstupní znalosti

Basic networking knowledge

An understanding of the Open Systems Interconnection (OSI) reference model, and the TCP/IP protocol suite

Complete the Introduction to the Junos Operating System (IJOS) course prior to attending this class

## Program

Day 1

Course Introduction

Protocol-Independent Routing

- Configure static routes
- Configure aggregate routes
- Configure generated routes
- Manage martian routes
- Routing Instance
  - Describe routing instances
  - Configure and share routes between routing instances
- LAB 1: Protocol-Independent Routing and Routing Instance
- Load Balancing
  - Describe load-balancing concepts and operations
  - Implement and monitor layer 3 load balancing
- Filter-Based Forwarding
  - Illustrate benefits of filter-based forwarding
  - Configure and monitor filter-based forwarding
- LAB 2: Load Balancing and Filter-Based Forwarding
- Fundamentals of OSPF
  - Overview of OSPF
  - Adjacency Formation and the Designated Router Election
  - OSPF Scalability
- Deploying OSPF
  - Configuring and Monitoring OSPF
  - Troubleshooting OSPF
- LAB 3: Deploying OSPF
- Day 2
- Fundamentals of BGP
  - Overview of BGP and BGP Attributes
- Deploying BGP
  - IBGP Versus EBGP
  - Configuring and Monitoring BGP
- LAB 4: BGP
- IP Tunneling
  - Overview of IP Tunneling, GRE and IP-IP Tunnels
  - Deploy GRE and IP-IP Tunnels
- LAB 5: IP Tunneling
- GR and BFD
  - Overview of High Availability Networks and Graceful Restart
  - Bidirectional forwarding detection
- LAB 6: GR and BFD
- GRES, NSR, and Unified ISSU
  - Graceful Routing Engine switchover
  - Nonstop active routing
  - Unified ISSU
- VRRP
  - Describe, configure, and monitor VRRP

Please note that the following Appendices are not covered as standard during the training course unless requested by the customer, and agreed with Arrow, upon booking:

- Appendix A: IPv6 (Optional)
  - Describe the differences between IPv4 and IPv6
  - Explain the IPv6 address format and the different address types
  - Explain how IPv6 stateless and stateful autoconfigurations work
  - Configure and monitor IPv6 routing
  - Implement IPv6-over-IPv4 tunnels
- Lab 7: IPv6 (Optional)
- Appendix B: IS-IS (Optional)
  - Overview of IS-IS and IS-IS PDUs
  - Adjacency Formation and DIS Election
  - Configuring and Monitoring IS-IS
  - Basic IS-IS Troubleshooting
- Lab 8: IS-IS (Optional)

## Termíny školení

Datum	Místo konání	Časové pásmo	Jazyk	Typ	Garance termínu	CENA
17 Sep 2025	Virtual Classroom	CEDT	English	Instructor Led Online		Kč bez DPH 70,000.00
12 Nov 2025	Virtual Classroom	CET	English	Instructor Led Online		Kč bez DPH 70,000.00

## Dodatečné informace

Školení je možné zajistit na míru. [Kontaktujte nás pro bližší informace.](#)