



Nokia NRS II Lab Workshop

Course outline

The Nokia NRS II Lab Workshop is a complete one-day workshop designed to help individuals practice and improve their service router configuration skills. The workshop also serves as an excellent tool for individuals needing to practice and prepare for the NRS II lab exam (NRSII4A0). Each workshop is led by members of the SRC subject matter expert team who will coach students through a set of practical, hands-on lab exercises and their solutions.

Course number

TER36090 (version A), TER36091 (version B)

Duration

1 day (hands-on NRS II lab training)

Recommended course prerequisites

The following four courses and exams are recommended. Or an equivalent level of knowledge and experience:

1. Nokia Scalable IP Networks (Exam No. 4A0-100)
2. Nokia Interior Routing Protocols (Exam No. 4A0-101)
3. Nokia Multiprotocol Label Switching (Exam No. 4A0-103)
4. Nokia Services Architecture (Exam No. 4A0-104)

Course objectives

After completing the workshop, students will:

- Have acquired and improved their hands-on configuration skills and knowledge working in a service router network environment
- Be better prepared to work in and support a real-world service router network
- Be better prepared for successfully taking the NRS II lab exam

Workshop labs

The NRS II Lab Workshop is devoted to having students independently work through a series of practical and challenging lab exercises. Throughout the day, students will have full access to the workshop instructor for questions, mentoring, and support. The maximum number of participants in a workshop is limited to 8 to ensure a quality level of interactivity and coaching between students and the instructor. Complete solutions for every lab exercise are included during the workshop.

There are two versions of the workshop, Version A and Version B, consisting of the lab exercises outlined below. Students can register for either version based on personal choice. Note that it is only necessary to register for one version of the workshop in order to be prepared for taking the NRS II lab exam (NRSII4A0). Students can optionally register for the second version should they desire to have an additional level of training and confidence for the exam.

Workshop Version A

Lab 1 Basic IP configuration

- 1.1 Physical connectivity
- 1.2 IP connectivity
- 1.3 IPv6 connectivity

Lab 2 IGP configuration

- 2.1 IS-IS in a single area
- 2.2 6over4 tunneling
- 2.3 OSPF in a single area
- 2.4 OSPF in multi-area
- 2.5 OSPFv3

Lab 3 MPLS configuration

- 3.1 LDP
- 3.2 Constraint-based RSVP-TE LSPs
- 3.3 RSVP bandwidth reservation
- 3.4 RSVP one-to-one Fast Reroute

Lab 4 Services configuration

- 4.1 Epipe. 23
- 4.2 VPLS spoke termination on epipe
- 4.3 VPLS spoke termination on IES
- 4.4 VPRN with BGP PE-CE
- 4.5 6VPE

Workshop Version B

Lab 1 Basic IP configuration

- 1.1 Physical connectivity
- 1.2 IP connectivity
- 1.3 IPv6 connectivity
- 1.4 IPv4 and IPv6 Static Routing

Lab 2 IGP Configuration

- 2.1 OSPF in a single area
- 2.2 IS-IS in a single area
- 2.3 IS-IS in multi-area
- 2.4 IS-IS for IPv6

Lab 3 MPLS configuration

- 3.1 LDP
- 3.2 RSVP SRLG
- 3.3 RSVP Facility Fast Reroute
- 3.4 6PE
- 3.5 MPLS Shortcut

Lab 4 Services Configuration

- 4.1 Epipe
- 4.2 Full Mesh VPLS
- 4.3 Hierarchical VPLS
- 4.4 Epipe spoke termination on IES
- 4.5 IES
- 4.6 VPRN with static PE-CE

Workshop delivery and registration

Workshops can be delivered as a Virtual Class (live, instructor-led online) and in a traditional instructor-led classroom environment. Dedicated customer workshops can also be delivered at customer-specified locations around the world.

Workshop schedules and student registration information is available at networks.nokia.com/src/coursereg.

My SR Lab

Students may also want to consider using the Nokia My SR Lab as an additional tool to help practice and grow their hands-on service routing skills and knowledge. My SR Lab provides remote, dedicated access to a service router lab environment that is available 24 hours a day, 7 days a week. In addition to providing access to a lab, My SR Lab offers a suite of over 50 lab practice scenarios at various skill levels that are excellent tools for learning and/or preparing for the NRS II lab exam. To find out more about My SR Lab, including a list of all of the practice scenarios, visit the My SR Lab web page at networks.nokia.com/src/mysrlab.