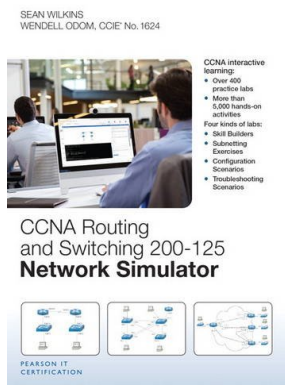


# [PDF] CCNA Routing And Switching 200-125 Network Simulator

Sean Wilkins, Wendell Odom - pdf download free book

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## Books Details:

Title: CCNA Routing and Switching 20

Author: Sean Wilkins, Wendell Odom

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## Description:

CCNA Routing and Switching interactive learning:

- More than 250 labs
- More than 5,000 hands-on tasks

Four Kinds of Labs:

- Skill Builders
- Subnetting Exercises
- Configuration Scenarios
- Troubleshooting Scenarios

The **CCNA Routing and Switching 200-125 Network Simulator** is a single-user software package. It helps users develop and improve hands-on configuration and troubleshooting skills without the investment in expensive lab hardware. This state-of-the-art, interactive simulation software enables you to practice your networking skills with more than 400 structured labs designed to help you learn by doing, the most effective method of learning.

Experience realistic network device responses as you perform each lab, which include detailed instructions, topology diagrams, critical-thinking questions, hints, and answers. Working through the labs, you will quickly become proficient with all the common Cisco IOS version 15 router and switch commands on the CCNA exam. Unlike other simulators on the market, the lab scenarios included in the CCNA R&S 200-125 Network Simulator are far more complex, challenging you to learn how to perform real-world network configuration and troubleshooting tasks.

Master the hands-on skills needed to succeed on the CCNA exam, including:

- Router and switch navigation and administration
- Ethernet LAN switches
- VLANs, trunking, and switch security
- Connected and static routes
- RIPv2 configuration and verification
- Access Control Lists (ACL)
- NAT, syslog, and NTP configuration
- IPv4 and IPv6 addressing and subnetting
- Network troubleshooting
- STP and VTP
- OSPF and EIGRP on IPv4 and IPv6
- External BGP
- Point-to-point WANs and private WANs
- HSRP
- Network management

Skill Builders:

These 250+ labs are narrowly focused, enabling you to practice your configuration skills on a single topic. Coverage includes:

- Router and switch CLI navigation
- Configuring IP addresses and DHCP servers
- VLAN and trunking configuration
- Switch security
- STP, VTP, Portfast, and BPDU guard configuration
- Static and dynamic EtherChannel
- Serial configuration and authentication
- Connected, static, and default routes
- RIPv2, OSPF, and EIGRP configuration
- eBGP and MPLS
- ACL analysis and configuration

- NAT configuration
- Syslog, NTP, HSRP, GRE tunnels, SNMP, IP SLA, and SPAN

#### Subnetting Exercises:

These 80 labs help you to perform subnetting calculations quickly and accurately, a critical skill for success on the CCNA exam. Topics covered include:

- IPv4 and IPv6 subnet ID calculation
- IP address rejection
- IP route selection
- VLSM overlaps
- IPv6 EUI-64 calculation
- Selecting VLSM routes

#### Configuration Scenarios:

These 50+ labs are more broadly focused, combining multiple technologies into configuration scenarios that mimic real-world environments. These labs are longer and more complex, challenging you to put your configuration skills to the test. Topics covered include:

- Network fundamentals and administration
- IP addressing
- STP and VTP
- Static and default routing
- Serial link configuration
- RIPv2, OSPF, and EIGRP
- Router-on-a-stick to MLS
- Standard and extended ACLs
- NAT configuration
- HSRP

#### Troubleshooting Scenarios:

These 30 labs present typical troubleshooting scenarios and require you to explore the misconfigured network, isolate the issues, and correct the problems. These are very complicated and realistic scenarios that truly test your ability to perform the job of a network engineer. Topics covered include:

- Switch forwarding
- VLAN troubleshooting
- Path analysis and troubleshooting
- Port security
- STP
- Network discovery
- IP addressing and routing
- DHCP server troubleshooting
- NAT
- EIGRP and OSPF
- IPv6, MLS, and GRE tunnels
- Router-on-a-stick

#### System requirements:

Windows system requirements (minimum):

- Windows 10 (32/64-bit), Windows 8.1 (32/64-bit), or Windows 7 (32/64-bit)

- 1 gigahertz (GHz) or faster 32-bit (x86) or 64-bit (x64) processor
- 1 GB RAM (32-bit) or 2 GB RAM (64-bit)
- 16 GB available hard disk space (32-bit) or 20 GB (64-bit)
- DirectX 9 graphics device with WDDM 1.0 or higher driver
- Adobe Acrobat Reader version 8 and above

Mac system requirements (minimum):

- macOS 10.12, 10.11, or 10.10
  - Intel core Duo 1.83 GHz
  - 512 MB RAM (1 GB recommended)
  - 1.5 GB hard disk space
  - 32-bit color depth at 1024x768 resolution
  - Adobe Acrobat Reader version 8 and above
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