Gain a foundational understanding of core Cisco routing and switching technologies and prepare for the CCENT certification exam (100-105 ICND1).

In this course, you will learn how to install, operate, configure, and verify a basic IPv4 and IPv6 network, including configuring a LAN switch, configuring an IP router, managing network devices, and identifying basic security threats. The goal of the course is to provide you with the knowledge and skills necessary to install, configure, and operate a small- to medium-sized network.

Now at version 3.0, Interconnecting Cisco Networking Devices, Part 1 (ICND1) v3.0 provides the foundational understanding of network Layers 1 through 3 that are applicable to core routing and switching plus other advanced technologies. Several topics have been added including; understanding the interactions and network functions of firewalls, wireless controllers and access points, along with additional focus on IPv6 and basic network security.

This course can be followed by Interconnecting Cisco Networking Devices, Part 2 (ICND2) v3.0, which covers topics in more depth and teaches you how to perform basic troubleshooting steps in enterprise branch office networks, preparing learners for the CCNA Routing and Switching certification.

This course will enable you to:

• Prepare for the entry-level CCENT certification, which is the foundation for Cisco associate-level certifications and beyond
• Obtain the foundational understanding of network layers 1-3 that are applicable to core routing and switching plus other advanced technologies
• Develop basic routing and switching networking skills to configure, monitor, and troubleshoot Cisco networks for increased effectiveness and optimal performance within SMB settings
• Understand the interactions and network functions of firewalls, wireless controllers and access points
Support Cisco network deployments and maintain these services in an on-going operational network

What You’ll Learn
• Network fundamentals and build simple LANs
• Establish Internet connectivity
• Manage and secure network devices
• Expand small- to medium-sized networks
• IPv6 basics

Who Needs to Attend
• Network administrators
• Network support engineers
• Network engineer associate
• Network specialist
• Network analyst
• Cisco channel partners
• Individuals pursuing the CCNA Routing and Switching certification

Prerequisites
• Basic computer literacy
• Basic PC operating system navigation skills
• Basic Internet usage skills
• Basic address knowledge
ICND1 V3.0 - INTERCONNECTING CISCO NETWORKING DEVICES, PART 1

Course Code: 4548

| CLASSROOM LIVE | $3,595 USD | 5 days |

Classroom Live Outline

1. Building a Simple Network
   - Functions of Networking
   - Host-to-Host Communications Model
   - Introducing LANs
   - Operating Cisco IOS Software
   - Starting a Switch
   - Ethernet and Switch Operation
   - Troubleshooting Common Switch Media Issues

2. Establishing Internet Connectivity
   - TCP/IP Internet Layer
   - IP Addressing and Subnets
   - TCP/IP Transport Layer
   - Functions of Routing
   - Configuring a Cisco Router
   - Packet Delivery Process
   - Enabling Static Routing
   - Basics of ACL
   - Enabling Internet Connectivity

3. Summary Challenge
   - Establish Internet Connectivity
   - Troubleshoot Internet Connectivity

4. Building a Medium-Sized Network
   - Implementing VLANs and Trunks
   - Routing Between VLANs
   - Using a Cisco IOS Network Device as a DHCP Server
   - Implementing RIPv2
5. Network Device Management and Security
   - Securing Administrative Access
   - Implementing Device Hardening
   - Configuring System Message Logging
   - Managing Cisco Devices
   - Licensing

6. Summary Challenge
   - Implementing a Medium-Sized Network
   - Troubleshooting a Medium-Sized Network

7. Introducing IPv6
   - Introducing Basic IPv6
   - IPv6 Operation
   - Configuring IPv6 Static Routes

Classroom Live Labs
Discovery Lab 1: Get Started with Cisco CLI
Discovery Lab 2: Perform Basic Switch Configuration
Discovery Lab 3: Observe How a Switch Operates
Discovery Lab 4: Troubleshoot Switch Media and Port Issues
Discovery Lab 5: Inspect TCP/IP Applications
Discovery Lab 6: Start with Cisco Router Configuration
Discovery Lab 7: Configure Cisco Discovery Protocol
Discovery Lab 8: Configure Default Gateway
Discovery Lab 9: Exploration of Packet Forwarding
Discovery Lab 10: Configure and Verify Static Routes
Discovery Lab 11: Configure and Verify ACLs
Discovery Lab 12: Configure a Provider-Assigned IP Address
Discovery Lab 13: Configure Static NAT
Discovery Lab 14: Configure Dynamic NAT and PAT
Discovery Lab 15: Troubleshoot NAT
Discovery Lab 16: Configure VLAN and Trunk
Discovery Lab 17: Configure a Router on a Stick
Discovery Lab 18: Configure a Cisco Router as a DHCP Server
Discovery Lab 19: Troubleshoot DHCP Issues
Discovery Lab 20: Configure and Verify RIPv2
Discovery Lab 21: Troubleshoot RIPv2
Discovery Lab 22: Enhance Security of Initial Configuration
Discovery Lab 23: Limit Remote Access Connectivity
Discovery Lab 24: Configure and Verify Port Security
Discovery Lab 25: Configure and Verify NTP
Discovery Lab 26: Configure Syslog
Discovery Lab 27: Configure Basic IPv6 Connectivity
Discovery Lab 28: Configure IPv6 Static Routes

Challenge Lab 1: Implementing the Initial Switch Configuration
Challenge Lab 2: Implementing the Initial Router Configuration
Challenge Lab 3: Implementing Static Routing
Challenge Lab 5: Implementing PAT
Challenge Lab 6: Summary Challenge Lab: 1
Challenge Lab 7: Summary Challenge Lab: 2
Challenge Lab 8: Troubleshooting VLANs and Trunk
Challenge Lab 9: Implementing Multiple VLANs and Basic Routing Between the VLANs
Challenge Lab 10: Implementing a DHCP Server in on a Cisco IOS Device
Challenge Lab 11: Implementing RIPv2
Challenge Lab 12: Securing Device Administrative Access
Challenge Lab 13: Implementing Device Hardening
Challenge Lab 14: Configuring System Message Logging
Challenge Lab 15: Summary Challenge Lab: 3
Challenge Lab 16: Summary Challenge Lab: 4
Challenge Lab 17: Implement IPv6 Static Routing

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sep 23 - 27, 2019</td>
<td>8:30 AM - 4:30 PM</td>
<td>SAN JOSE, CA</td>
</tr>
<tr>
<td>Sep 30 - Oct 4, 2019</td>
<td>8:30 AM - 4:30 PM</td>
<td>MORRISTOWN, NJ</td>
</tr>
<tr>
<td>Oct 7 - 11, 2019</td>
<td>8:30 AM - 4:30 PM</td>
<td>DALLAS, TX</td>
</tr>
<tr>
<td>Oct 7 - 11, 2019</td>
<td>8:30 AM - 4:30 PM</td>
<td>DULLES, VA</td>
</tr>
<tr>
<td>Oct 14 - 18, 2019</td>
<td>8:30 AM - 4:30 PM</td>
<td>WASHINGTON, DC</td>
</tr>
<tr>
<td>Oct 21 - 25, 2019</td>
<td>8:30 AM - 4:30 PM</td>
<td>CHICAGO (DOWNTOWN), IL</td>
</tr>
<tr>
<td>Oct 28 - Nov 1, 2019</td>
<td>8:30 AM - 4:30 PM</td>
<td>BOSTON, MA</td>
</tr>
<tr>
<td>Oct 28 - Nov 1, 2019</td>
<td>8:30 AM - 4:30 PM</td>
<td>COLUMBIA, MD</td>
</tr>
<tr>
<td>Oct 28 - Nov 1, 2019</td>
<td>8:30 AM - 4:30 PM</td>
<td>LOS ANGELES, CA</td>
</tr>
<tr>
<td>Oct 28 - Nov 1, 2019</td>
<td>8:30 AM - 4:30 PM</td>
<td>NEW YORK CITY, NY</td>
</tr>
<tr>
<td>Nov 4 - 8, 2019</td>
<td>8:30 AM - 4:30 PM</td>
<td>DALLAS, TX</td>
</tr>
<tr>
<td>Nov 4 - 8, 2019</td>
<td>8:30 AM - 4:30 PM</td>
<td>HOUSTON, TX</td>
</tr>
<tr>
<td>Nov 11 - 15, 2019</td>
<td>8:30 AM - 4:30 PM</td>
<td>MORRISTOWN, NJ</td>
</tr>
<tr>
<td>Nov 11 - 15, 2019</td>
<td>8:30 AM - 4:30 PM</td>
<td>WASHINGTON, DC</td>
</tr>
<tr>
<td>Nov 18 - 22, 2019</td>
<td>8:30 AM - 4:30 PM</td>
<td>ATLANTA, GA</td>
</tr>
<tr>
<td>Nov 18 - 22, 2019</td>
<td>8:30 AM - 4:30 PM</td>
<td>RESEARCH TRIANGLE PARK, NC</td>
</tr>
<tr>
<td>Nov 18 - 22, 2019</td>
<td>8:30 AM - 4:30 PM</td>
<td>SAN JOSE, CA</td>
</tr>
</tbody>
</table>
Dec 9 - 13, 2019 | 8:30 AM - 4:30 PM | CHICAGO (DOWNTOWN), IL
Dec 9 - 13, 2019 | 8:30 AM - 4:30 PM | DALLAS, TX
Dec 9 - 13, 2019 | 8:30 AM - 4:30 PM | MINNEAPOLIS, MN
Dec 16 - 20, 2019 | 8:30 AM - 4:30 PM | HOUSTON, TX
Dec 16 - 20, 2019 | 8:30 AM - 4:30 PM | NEW YORK CITY, NY
Dec 16 - 20, 2019 | 8:30 AM - 4:30 PM | WASHINGTON, DC
Jan 6 - 10, 2020 | 8:30 AM - 4:30 PM | BOSTON, MA
Jan 6 - 10, 2020 | 8:30 AM - 4:30 PM | DENVER, CO
Jan 13 - 17, 2020 | 8:30 AM - 4:30 PM | COLUMBIA, MD
Jan 13 - 17, 2020 | 8:30 AM - 4:30 PM | MORRISTOWN, NJ
Jan 13 - 17, 2020 | 8:30 AM - 4:30 PM | RESEARCH TRIANGLE PARK, NC
Jan 20 - 24, 2020 | 8:30 AM - 4:30 PM | DALLAS, TX
Jan 20 - 24, 2020 | 8:30 AM - 4:30 PM | DULLES, VA
Jan 20 - 24, 2020 | 8:30 AM - 4:30 PM | SAN JOSE, CA
Jan 27 - 31, 2020 | 8:30 AM - 4:30 PM | HOUSTON, TX
Jan 27 - 31, 2020 | 8:30 AM - 4:30 PM | ORLANDO, FL
Jan 27 - 31, 2020 | 8:30 AM - 4:30 PM | WASHINGTON, DC
Feb 3 - 7, 2020 | 8:30 AM - 4:30 PM | ATLANTA, GA
Feb 3 - 7, 2020 | 8:30 AM - 4:30 PM | CHICAGO (DOWNTOWN), IL
Feb 10 - 14, 2020 | 8:30 AM - 4:30 PM | LOS ANGELES, CA
Feb 10 - 14, 2020 | 8:30 AM - 4:30 PM | NEW YORK CITY, NY
Feb 10 - 14, 2020 | 8:30 AM - 4:30 PM | RESEARCH TRIANGLE PARK, NC
Feb 17 - 21, 2020 | 8:30 AM - 4:30 PM | COLUMBUS, OH
Feb 17 - 21, 2020 | 8:30 AM - 4:30 PM | DALLAS, TX
Feb 17 - 21, 2020 | 8:30 AM - 4:30 PM | SAN JOSE, CA
Feb 24 - 28, 2020 | 8:30 AM - 4:30 PM | MORRISTOWN, NJ
Feb 24 - 28, 2020 | 8:30 AM - 4:30 PM | WASHINGTON, DC
Mar 2 - 6, 2020 | 8:30 AM - 4:30 PM | HOUSTON, TX
Mar 9 - 13, 2020 | 8:30 AM - 4:30 PM | BOSTON, MA
Mar 9 - 13, 2020 | 8:30 AM - 4:30 PM | COLUMBIA, MD
Mar 16 - 20, 2020 | 8:30 AM - 4:30 PM | CHICAGO (DOWNTOWN), IL
Mar 16 - 20, 2020 | 8:30 AM - 4:30 PM | DALLAS, TX
Mar 16 - 20, 2020 | 8:30 AM - 4:30 PM | RESEARCH TRIANGLE PARK, NC
Mar 23 - 27, 2020 | 8:30 AM - 4:30 PM | NEW YORK CITY, NY
Mar 23 - 27, 2020 | 8:30 AM - 4:30 PM | SAN JOSE, CA
Mar 23 - 27, 2020 | 8:30 AM - 4:30 PM | WASHINGTON, DC
ICND1 V3.0 - INTERCONNECTING CISCO NETWORKING DEVICES, PART 1
Course Code: 4548

Virtual Classroom Live Outline

1. Building a Simple Network
   - Functions of Networking
   - Host-to-Host Communications Model
   - Introducing LANs
   - Operating Cisco IOS Software
   - Starting a Switch
   - Ethernet and Switch Operation
   - Troubleshooting Common Switch Media Issues

2. Establishing Internet Connectivity
   - TCP/IP Internet Layer
   - IP Addressing and Subnets
   - TCP/IP Transport Layer
   - Functions of Routing
   - Configuring a Cisco Router
   - Packet Delivery Process
   - Enabling Static Routing
   - Basics of ACL
   - Enabling Internet Connectivity

3. Summary Challenge
   - Establish Internet Connectivity
   - Troubleshoot Internet Connectivity

4. Building a Medium-Sized Network
   - Implementing VLANs and Trunks
   - Routing Between VLANs
   - Using a Cisco IOS Network Device as a DHCP Server
   - Implementing RIPv2
5. Network Device Management and Security
   - Securing Administrative Access
   - Implementing Device Hardening
   - Configuring System Message Logging
   - Managing Cisco Devices
   - Licensing

6. Summary Challenge
   - Implementing a Medium-Sized Network
   - Troubleshooting a Medium-Sized Network

7. Introducing IPv6
   - Introducing Basic IPv6
   - IPv6 Operation
   - Configuring IPv6 Static Routes

Virtual Classroom Live Labs
Discovery Lab 1: Get Started with Cisco CLI
Discovery Lab 2: Perform Basic Switch Configuration
Discovery Lab 3: Observe How a Switch Operates
Discovery Lab 4: Troubleshoot Switch Media and Port Issues
Discovery Lab 5: Inspect TCP/IP Applications
Discovery Lab 6: Start with Cisco Router Configuration
Discovery Lab 7: Configure Cisco Discovery Protocol
Discovery Lab 8: Configure Default Gateway
Discovery Lab 9: Exploration of Packet Forwarding
Discovery Lab 10: Configure and Verify Static Routes
Discovery Lab 11: Configure and Verify ACLs
Discovery Lab 12: Configure a Provider-Assigned IP Address
Discovery Lab 13: Configure Static NAT
Discovery Lab 14: Configure Dynamic NAT and PAT
Discovery Lab 15: Troubleshoot NAT
Discovery Lab 16: Configure VLAN and Trunk
Discovery Lab 17: Configure a Router on a Stick
Discovery Lab 18: Configure a Cisco Router as a DHCP Server
Discovery Lab 19: Troubleshoot DHCP Issues
Discovery Lab 20: Configure and Verify RIPv2
Discovery Lab 21: Troubleshoot RIPv2
Discovery Lab 22: Enhance Security of Initial Configuration
Discovery Lab 23: Limit Remote Access Connectivity
Discovery Lab 24: Configure and Verify Port Security
Discovery Lab 25: Configure and Verify NTP
Discovery Lab 26: Configure Syslog
Discovery Lab 27: Configure Basic IPv6 Connectivity
Discovery Lab 28: Configure IPv6 Static Routes

Challenge Lab 1: Implementing the Initial Switch Configuration
Challenge Lab 2: Implementing the Initial Router Configuration
Challenge Lab 3: Implementing Static Routing
Challenge Lab 5: Implementing PAT
Challenge Lab 6: Summary Challenge Lab: 1
Challenge Lab 7: Summary Challenge Lab: 2
Challenge Lab 8: Troubleshooting VLANs and Trunk
Challenge Lab 9: Implement Multiple VLANs and Basic Routing Between the VLANs
Challenge Lab 10: Implementing a DHCP Server in on a Cisco IOS Device
Challenge Lab 11: Implementing RIPv2
Challenge Lab 12: Securing Device Administrative Access
Challenge Lab 13: Implementing Device Hardening
Challenge Lab 14: Configuring System Message Logging
Challenge Lab 15: Summary Challenge Lab: 3
Challenge Lab 16: Summary Challenge Lab: 4
Challenge Lab 17: Implement IPv6 Static Routing

Sep 23 - 27, 2019 | 8:30 AM - 4:30 PM EST
Sep 23 - 27, 2019 | 11:30 AM - 7:30 PM EST
Sep 30 - Oct 4, 2019 | 8:30 AM - 4:30 PM EST
Oct 7 - 11, 2019 | 9:30 AM - 5:30 PM EST
Oct 21 - 25, 2019 | 8:30 AM - 4:30 PM EST
Oct 28 - Nov 1, 2019 | 8:30 AM - 4:30 PM EST
Nov 4 - 8, 2019 | 9:30 AM - 5:30 PM EST
Nov 18 - 22, 2019 | 8:30 AM - 4:30 PM EST
Dec 2 - 6, 2019 | 8:30 AM - 4:30 PM EST
Dec 9 - 13, 2019 | 9:30 AM - 5:30 PM EST
Dec 16 - 20, 2019 | 8:30 AM - 4:30 PM EST
Jan 6 - 10, 2020 | 8:30 AM - 4:30 PM EST
Jan 13 - 17, 2020 | 8:30 AM - 4:30 PM EST
Jan 20 - 24, 2020 | 9:30 AM - 5:30 PM EST
Jan 27 - 31, 2020 | 8:30 AM - 4:30 PM EST
Feb 3 - 7, 2020 | 8:30 AM - 4:30 PM EST
Feb 10 - 14, 2020 | 8:30 AM - 4:30 PM EST
<table>
<thead>
<tr>
<th>Date Range</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feb 17 - 21, 2020</td>
<td>9:30 AM - 5:30 PM EST</td>
</tr>
<tr>
<td>Feb 24 - 28, 2020</td>
<td>8:30 AM - 4:30 PM EST</td>
</tr>
<tr>
<td>Mar 2 - 6, 2020</td>
<td>8:30 AM - 4:30 PM EST</td>
</tr>
<tr>
<td>Mar 9 - 13, 2020</td>
<td>8:30 AM - 4:30 PM EST</td>
</tr>
<tr>
<td>Mar 16 - 20, 2020</td>
<td>9:30 AM - 5:30 PM EST</td>
</tr>
<tr>
<td>Mar 23 - 27, 2020</td>
<td>8:30 AM - 4:30 PM EST</td>
</tr>
</tbody>
</table>
ICND1 V3.0 - INTERCONNECTING CISCO NETWORKING DEVICES, PART 1

Course Code: 4548

ON-DEMAND $750 USD

On-Demand Outline

1. Building a Simple Network
   - Functions of Networking
   - Host-to-Host Communications Model
   - Introducing LANs
   - Operating Cisco IOS Software
   - Starting a Switch
   - Ethernet and Switch Operation
   - Troubleshooting Common Switch Media Issues

2. Establishing Internet Connectivity
   - TCP/IP Internet Layer
   - IP Addressing and Subnets
   - TCP/IP Transport Layer
   - Functions of Routing
   - Configuring a Cisco Router
   - Packet Delivery Process
   - Enabling Static Routing
   - Basics of ACL
   - Enabling Internet Connectivity

3. Summary Challenge
   - Establish Internet Connectivity
   - Troubleshoot Internet Connectivity

4. Building a Medium-Sized Network
   - Implementing VLANs and Trunks
   - Routing Between VLANs
   - Using a Cisco IOS Network Device as a DHCP Server
   - Implementing RIPv2
5. Network Device Management and Security
   • Securing Administrative Access
   • Implementing Device Hardening
   • Configuring System Message Logging
   • Managing Cisco Devices
   • Licensing

6. Summary Challenge
   • Implementing a Medium-Sized Network
   • Troubleshooting a Medium-Sized Network

7. Introducing IPv6
   • Introducing Basic IPv6
   • IPv6 Operation
   • Configuring IPv6 Static Routes

On-Demand Labs
Discovery Lab 1: Get Started with Cisco CLI
Discovery Lab 2: Perform Basic Switch Configuration
Discovery Lab 3: Observe How a Switch Operates
Discovery Lab 4: Troubleshoot Switch Media and Port Issues
Discovery Lab 5: Inspect TCP/IP Applications
Discovery Lab 6: Start with Cisco Router Configuration
Discovery Lab 7: Configure Cisco Discovery Protocol
Discovery Lab 8: Configure Default Gateway
Discovery Lab 9: Exploration of Packet Forwarding
Discovery Lab 10: Configure and Verify Static Routes
Discovery Lab 11: Configure and Verify ACLs
Discovery Lab 12: Configure a Provider-Assigned IP Address
Discovery Lab 13: Configure Static NAT
Discovery Lab 14: Configure Dynamic NAT and PAT
Discovery Lab 15: Troubleshoot NAT
Discovery Lab 16: Configure VLAN and Trunk
Discovery Lab 17: Configure a Router on a Stick
Discovery Lab 18: Configure a Cisco Router as a DHCP Server
Discovery Lab 19: Troubleshoot DHCP Issues
Discovery Lab 20: Configure and Verify RIPv2
Discovery Lab 21: Troubleshoot RIPv2
Discovery Lab 22: Enhance Security of Initial Configuration
Discovery Lab 23: Limit Remote Access Connectivity
Discovery Lab 24: Configure and Verify Port Security
Discovery Lab 25: Configure and Verify NTP
Discovery Lab 26: Configure Syslog
Discovery Lab 27: Configure Basic IPv6 Connectivity
Discovery Lab 28: Configure IPv6 Static Routes

Challenge Lab 1: Implementing the Initial Switch Configuration
Challenge Lab 2: Implementing the Initial Router Configuration
Challenge Lab 3: Implementing Static Routing
Challenge Lab 5: Implementing PAT
Challenge Lab 6: Summary Challenge Lab: 1
Challenge Lab 7: Summary Challenge Lab: 2
Challenge Lab 8: Troubleshooting VLANs and Trunk
Challenge Lab 9: Implement Multiple VLANs and Basic Routing Between the VLANs
Challenge Lab 10: Implementing a DHCP Server in on a Cisco IOS Device
Challenge Lab 11: Implementing RIPv2
Challenge Lab 12: Securing Device Administrative Access
Challenge Lab 13: Implementing Device Hardening
Challenge Lab 14: Configuring System Message Logging
Challenge Lab 15: Summary Challenge Lab: 3
Challenge Lab 16: Summary Challenge Lab: 4
Challenge Lab 17: Implement IPv6 Static Routing
ICND1 V3.0 - INTERCONNECTING CISCO NETWORKING DEVICES, PART 1
Course Code: 4548

BLENDED LIVE $3,235 USD

Blended Live Outline

1. Building a Simple Network
   - Functions of Networking
   - Host-to-Host Communications Model
   - Introducing LANs
   - Operating Cisco IOS Software
   - Starting a Switch
   - Ethernet and Switch Operation
   - Troubleshooting Common Switch Media Issues

2. Establishing Internet Connectivity
   - TCP/IP Internet Layer
   - IP Addressing and Subnets
   - TCP/IP Transport Layer
   - Functions of Routing
   - Configuring a Cisco Router
   - Packet Delivery Process
   - Enabling Static Routing
   - Basics of ACL
   - Enabling Internet Connectivity

3. Summary Challenge
   - Establish Internet Connectivity
   - Troubleshoot Internet Connectivity

4. Building a Medium-Sized Network
   - Implementing VLANs and Trunks
   - Routing Between VLANs
   - Using a Cisco IOS Network Device as a DHCP Server
   - Implementing RIPv2
5. Network Device Management and Security
   • Securing Administrative Access
   • Implementing Device Hardening
   • Configuring System Message Logging
   • Managing Cisco Devices
   • Licensing

6. Summary Challenge
   • Implementing a Medium-Sized Network
   • Troubleshooting a Medium-Sized Network

7. Introducing IPv6
   • Introducing Basic IPv6
   • IPv6 Operation
   • Configuring IPv6 Static Routes

Blended Live Labs
Discovery Lab 1: Get Started with Cisco CLI
Discovery Lab 2: Perform Basic Switch Configuration
Discovery Lab 3: Observe How a Switch Operates
Discovery Lab 4: Troubleshoot Switch Media and Port Issues
Discovery Lab 5: Inspect TCP/IP Applications
Discovery Lab 6: Start with Cisco Router Configuration
Discovery Lab 7: Configure Cisco Discovery Protocol
Discovery Lab 8: Configure Default Gateway
Discovery Lab 9: Exploration of Packet Forwarding
Discovery Lab 10: Configure and Verify Static Routes
Discovery Lab 11: Configure and Verify ACLs
Discovery Lab 12: Configure a Provider-Assigned IP Address
Discovery Lab 13: Configure Static NAT
Discovery Lab 14: Configure Dynamic NAT and PAT
Discovery Lab 15: Troubleshoot NAT
Discovery Lab 16: Configure VLAN and Trunk
Discovery Lab 17: Configure a Router on a Stick
Discovery Lab 18: Configure a Cisco Router as a DHCP Server
Discovery Lab 19: Troubleshoot DHCP Issues
Discovery Lab 20: Configure and Verify RIPv2
Discovery Lab 21: Troubleshoot RIPv2
Discovery Lab 22: Enhance Security of Initial Configuration
Discovery Lab 23: Limit Remote Access Connectivity
Discovery Lab 24: Configure and Verify Port Security
Discovery Lab 25: Configure and Verify NTP
Discovery Lab 26: Configure Syslog
Discovery Lab 27: Configure Basic IPv6 Connectivity
Discovery Lab 28: Configure IPv6 Static Routes

Challenge Lab 1: Implementing the Initial Switch Configuration
Challenge Lab 2: Implementing the Initial Router Configuration
Challenge Lab 3: Implementing Static Routing
Challenge Lab 5: Implementing PAT
Challenge Lab 6: Summary Challenge Lab: 1
Challenge Lab 7: Summary Challenge Lab: 2
Challenge Lab 8: Troubleshooting VLANs and Trunk
Challenge Lab 9: Implement Multiple VLANs and Basic Routing Between the VLANs
Challenge Lab 10: Implementing a DHCP Server in on a Cisco IOS Device
Challenge Lab 11: Implementing RIPv2
Challenge Lab 12: Securing Device Administrative Access
Challenge Lab 13: Implementing Device Hardening
Challenge Lab 14: Configuring System Message Logging
Challenge Lab 15: Summary Challenge Lab: 3
Challenge Lab 16: Summary Challenge Lab: 4
Challenge Lab 17: Implement IPv6 Static Routing

Oct 3 - Nov 7, 2019 | 8:00 AM - 12:00 PM EST