

Automating Networks Using Cisco Platforms (CPLL-CCNAAUTO)

Duration: 180 Days

The Automating Networks Using Cisco Platforms (CCNAAUTO) Learning Path teaches you how to implement basic network applications using Cisco platforms as a base, and how to implement automation workflows across network, security, collaboration, and computing infrastructure. The Learning Path gives you hands-on experience solving real-world problems using Cisco Application Programming Interfaces (APIs) and modern development tools.

This Learning Path prepares you for the 200-901 CCNAAUTO v1.1 exam. If passed, you earn the Cisco Certified Network Associate (CCNA) Automation certification.

Skills You'll Learn

- Implement basic network applications using Cisco platforms
- Develop automation workflows across network, security, collaboration, and computing infrastructure
- Understand the importance of APIs and use version control tools in modern software development
- Apply model-driven programmability to automate common tasks with Python scripts
- Recognize common security concerns, types of tests, and utilize containerization for local development

Learning Path Objectives:

1. Software Development and Design: Learn modern software design and development techniques for networking, including APIs, data encoding formats, Git, and common design patterns and architectures.
2. Using APIs: Discover APIs with a focus on secure requests and processing responses using the Postman testing tool through hands-on labs. Learn to leverage APIs to integrate Cisco products across collaboration, security, data center, and enterprise solutions.
3. Network Fundamentals: Develop foundational networking knowledge focusing on network topologies, components, diagrams, and the OSI model. Engage in hands-on labs to interpret network diagrams and enhance troubleshooting skills.
4. Infrastructure Automation: Discover how APIs and model-driven programmability streamline Cisco device management and automation using Infrastructure as Code with Ansible.

5. Application Deployment and Security: Focus on effective deployment methodologies, including containerized deployment, DevOps best practices, and hands-on labs with Docker, CI/CD, software testing, and application security.

