Skillsoft
global knowledge™

NETWORK AUTOMATION WITH ANSIBLE FAST TRACK

Course Code: 100605

Learn how to automate your network using Python and Playbooks.

This course provides a comprehensive introduction to using Ansible for network automation and management. Ansible's agentless nature and human-readable YAML syntax lower the barrier to entry, enabling teams to achieve immediate ROI in configuration management and multi-vendor consistency. It teaches the principles of Infrastructure as Code by focusing on the desired outcome rather than a step-by-step process.

What You'll Learn

- **Automate at Scale:** Develop and run Ansible playbooks to automate common network administration tasks.
- **Manage Multi-Vendor Environments:** Use Ansible's core modules and advanced features to manage configurations on a variety of network devices.
- **Build Reusable Solutions:** Apply Jinja2 templates and Ansible Roles to create scalable, maintainable automation code.
- **Secure Your Workflows:** Implement secure automation practices using Ansible Vault and robust error-handling techniques.

Who Needs to Attend

- Network Engineer/Administrator
- IT/Network Manager or Team Lead
- Systems Administrator or DevOps Engineer
- Security and Compliance Analyst
- Aspiring Network Architect/Consultant

Prerequisites

- **Basic Keyboard Proficiency:** Ability to efficiently navigate and use a keyboard, including typing, copy-pasting, and basic text editing in terminal and/or text editors.

NETWORK AUTOMATION WITH ANSIBLE FAST TRACK

Course Code: 100605

VIRTUAL CLASSROOM LIVE	$2,475 CAD	2 Day

Virtual Classroom Live Outline

Ansible Foundations

- Lecture: Introduction to Ansible
- Lecture: Introduction to YAML
- Lecture + Lab: Making an Inventory
- Lecture + Lab: Running a Playbook
- Lecture + Lab: ansible.cfg setup
- Lecture + Lab: Looping Tasks
- Lecture + Lab: Setting Variables
- Lecture + Lab: When Condition

Core Modules and Network Collections

- Lecture + Lab: Ansible Module - copy
- Lecture + Lab: Ansible Module - file
- Lecture + Lab: Ansible Module - get_url and uri
- Lecture + Lab: Ansible Module - template
- Lecture: Collections, Roles, and Ansible Galaxy
- Lecture + Lab: Using Collections
- Lecture + Lab: Exploring Switches with Ansible
- Lecture + Lab: Backup Cisco, Juniper, Arista, and More

Agnostic and Vendor-Specific Modules

- Lecture + Lab: Agnostic Network Modules
- Lecture + Lab: Simplifying Network Playbooks with Agnostic Modules
- Lecture + Lab: Network Playbooks and Vendor Specific Modules
- Lecture + Lab: Ansible Get Switch Config and Archive
- Lecture + Lab: network_cli Playbook

Dynamic Facts and APIs

- Lecture + Lab: Using Ansible Facts
- Lecture + Lab: Network API Calls
- Lecture + Lab: Jinja2 Templating for Network Configurations

Reusability and Security

- Lecture + Lab: Using Roles
- Lecture + Lab: Making Roles
- Lecture + Lab: Ansible Vault

Robustness and Error Handling

- Lecture + Lab: Ansible Error Handling
- Lecture + Lab: Network Playbook Error Handling
- Lecture + Lab: Network Playbook Precheck
- Lecture + Lab: Network Playbooks with Roles and Rollbacks

Virtual Classroom Live Labs

1. Using vim
2. Using & Installing Python
3. Making a Github account
4. Data within mixed lists
5. Understanding More about Lists
6. Python Dictionaries
7. Getting dir(obj) help() and pydoc
8. Copying Files and Folders
9. Moving and Renaming Files and Folders
10. IPv4 Testing with if
11. Paramiko - SSH with RSA Keys
12. Paramiko - SFTP with UN and PW
13. Space APIs the Final Frontier
14. More APIs - Final Frontier is Vast
15. Interaction with APIs - NASA 01
16. Interaction with APIs - NASA 02
17. Install GNS3
18. Setup for GNS networking
19. Configure the Switches
20. Running Netmiko
21. Running your first Playbook
22. Debug Module
23. Playbook Prompts
24. Register and when
25. EOS Get Config and Archive
26. Agnostic Network Modules
27. Network Playbook Error Handling
28. Network Playbook Precheck
29. Network Playbooks with Roles and Rollbacks
30. Securing Playbooks with Vault
31. Network Playbooks, Set Fact, and Fail
32. Debug, Loops, and YAML Lists

33. Running a script with Ansible
34. Jinja Filters
35. Ansible, Python Methods, and Jinja Filters
36. Ansible and APIs
37. Python and Ansible
38. Writing an Ansible Module with Python
39. AWX Tower
40. Molecule – Testing Roles

Jul 30 - 31, 2026 | 10:00 AM - 6:00 PM EDT

Nov 19 - 20, 2026 | 10:00 AM - 6:00 PM EST

NETWORK AUTOMATION WITH ANSIBLE FAST TRACK

Course Code: 100605

PRIVATE GROUP TRAINING	5 Day

Visit us at www.globalknowledge.com or call us at 1-866-716-6688.

Date created: 4/30/2026 12:17:54 AM