# Network Automation with Ansible Fast Track Training

Duration: **2 Day**

BILGINÇ IT Academy
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## Overview

**New - 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.

**Who Should 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.

## What You Will 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.

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## 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