

Introduction to Event-Driven Ansible

Course Duration: 24 Hours

Course code DO274

1. Course Overview

This instructor-led, hands-on course guides system administrators, DevOps engineers, and other technical professionals through the deployment and configuration of Event-Driven Ansible (EDA). You'll learn how to author Ansible Rulebooks that monitor infrastructure events—such as from monitoring systems, webhooks, or Kafka—and automate responses through Ansible Automation Platform. By the end, you'll be capable of implementing event-triggered automation workflows for remediation, GitOps integration, and more—all based on Ansible Automation Platform 2.4.

2. What you'll learn?

This course aims to introduce participants to the powerful capabilities of Event-Driven Ansible, enabling them to build responsive, automated IT workflows triggered by specific events. Learners will explore the principles of event-driven automation, understand event sources and rules, and gain hands-on experience in developing automated responses that enhance agility, consistency, and resilience in IT operations. The course lays the foundation for applying event-driven strategies to proactively manage infrastructure and services.

3. Target Audience

- System administrators
- DevOps engineers

- Automation engineers
- Cloud infrastructure professionals
- IT operations staff
- Anyone interested in modern IT automation practices

4. Pre-Requisites

Participants are expected to have a basic understanding of Ansible and foundational knowledge of Linux system administration to get the most out of this course. Prior exposure to IT automation concepts and familiarity with scripting or YAML will further support their learning experience.

- Familiarity with Ansible fundamentals
- Basic understanding of Linux/Unix systems
- Exposure to automation or configuration management concepts
- Experience with YAML syntax (recommended but not mandatory)

5. Course content

Module 1: Understanding Event-Driven Ansible

- Define Event-Driven Ansible: architecture, importance, and key use cases
- Explore benefits of autonomous automation across infrastructure events

Module 2: Developing and Testing Rulebooks

- Write, manage, and test basic Ansible Rulebooks that trigger on incoming events
- Use rulebook syntax to define if-this-then-that automation workflows

Module 3: Installing and Configuring the EDA Controller

- Learn installation options for Event-Driven Ansible controller
- Configure the controller to interface with Ansible Automation Platform and rulebooks

Module 4: Launching Automation via Rulebooks

- Set up projects, automation decision environments, and integrate with automation controller
- Enable rule-triggered job templates to run automation jobs based on infrastructure events

Module 5: GitOps and Network Telemetry Use Cases

- React to Git events (pushes, pull requests) to implement GitOps workflows
- Use network telemetry as event triggers for automated remediation or configuration changes

Module 6: Integrating Event Sources and Webhooks

- Configure external event sources such as monitoring tools, webhooks, or Kafka.
- Connect third-party systems to trigger automation workflows.
- Implement real-time response scenarios with external integrations.

Module 7: Advanced Troubleshooting and Best Practices

- Debug and validate Ansible Rulebooks for complex workflows.
- Monitor event flow and analyze logs for error resolution.
- Apply best practices for scaling and securing Event-Driven Ansible in production.

