Introduction to Event-Driven Ansible (DO274) Training

Duration: **1 Day**

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Building Ansible Automation Triggered by Infrastructure Events

Introduction to Event-Driven Ansible (DO274) teaches participants how to use Event-Driven Ansible (EDA) to automatically execute automation processes in response to events generated across an IT infrastructure.

Designed for system administrators, DevOps engineers, and other technical professionals, the course explains how to create, deploy, and configure automation that responds to events received from supported event sources, including monitoring systems, webhooks, and Apache Kafka.

Participants learn how to write Ansible Rulebooks and use them with Event-Driven Ansible controller to respond to infrastructure events and automate remediation or resolution activities.

The course also explores several practical use cases that demonstrate how Event-Driven Ansible can be incorporated into IT infrastructure and operational workflows.

This course is based on **Red Hat Ansible Automation Platform 2.4**.

Organizational Impact

Event-Driven Ansible enables organizations to initiate automation tasks rapidly in response to alerts and events detected throughout their IT infrastructure.

Automatically triggering the appropriate automation when an event occurs can help organizations respond more quickly to outages and infrastructure issues. This event-driven approach can improve operational efficiency while helping to reduce downtime caused by service disruptions.

Individual Impact

After completing DO274, participants will be able to create and configure Ansible automation code that can run automatically when events occur within their IT infrastructure, reducing the need for manual intervention.

Participants also learn how to centrally manage Event-Driven Ansible automation, monitor the actions performed and their results, and support collaboration and coordination between teams.

The course also develops the skills required to build event-driven automation workflows that can be integrated into existing DevOps and GitOps practices and processes.

Prerequisites

Participants should have or consider the following knowledge and experience:

- Taking the Red Hat skills assessment is recommended to determine whether this course

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matches your current skill level
- User-level experience with Red Hat Enterprise Linux and the ability to execute commands from the shell are required
- RHCSA- or RHCE-level Linux skills are recommended
- Basic knowledge of command-line Ansible, Visual Studio Code, and Git is required
- Previous experience with Red Hat Ansible Automation Platform 2 and automation controller is recommended

Who Should Attend

This course is particularly suitable for:

- System administrators
- DevOps engineers
- Network administrators
- Technical professionals responsible for responding rapidly to infrastructure or application events
- IT professionals interested in automating issue remediation and resolution processes

What You Will Learn

The course covers the following key areas:

- Understanding Event-Driven Ansible, its importance, architecture, key benefits, and common use cases
- Reading, creating, and testing basic Ansible Rulebooks that respond to events from different sources
- Understanding the available installation options for Event-Driven Ansible controller and performing its installation
- Creating new projects and configuring the automation decision environment
- Integrating Event-Driven Ansible controller with automation controller
- Configuring Event-Driven Ansible controller to launch job templates according to events monitored by Ansible Rulebooks
- Responding to events generated by Git activities such as push notifications and pull requests
- Using Event-Driven Ansible as part of a GitOps workflow
- Configuring Ansible to consume network telemetry and automatically respond to detected events
- Automating remediation actions or configuration changes in response to infrastructure events

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Training Outline

Getting Started with Event-Driven Ansible

Learn how to create Ansible automation that can automatically execute playbooks in response to events delivered by various supported event sources.

Explore how incoming events can trigger automation processes and understand the role of Ansible Rulebooks in defining the conditions and actions associated with those events.

Getting Started with Event-Driven Ansible Controller

Learn how to configure Event-Driven Ansible controller as a service that provides a rules engine for listening to incoming events and activating Ansible Rulebooks when defined conditions are met.

Explore the controller's role in centrally operating and managing Event-Driven Ansible automation.

Example Use Cases for Event-Driven Ansible

Explore practical examples that demonstrate how Event-Driven Ansible can be applied to IT operations.

Use cases include responding to Git-generated events, supporting GitOps workflows, using network telemetry to trigger automation, and automatically performing remediation activities in response to infrastructure conditions.