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Rundeck Training: Runbook Automation

2 days (14 hours)

Overview

Our Rundeck training will introduce you to this powerful operations management and automation tool, helping you simplify the management of your IT infrastructure and processes.

Rundeck provides a flexible platform that allows you to automate operations, execute tasks, manage workflows, and orchestrate processes.

This tool facilitates DevOps practices, allowing you to perform operational tasks securely and bridge the gap between your development and operations teams, enabling efficient execution.

During our course, you will be able to implement continuous integration for your deployments and ensure a more reliable and resilient infrastructure.

Like all our training courses, this one will introduce you to **the latest stable version** of the technology and its new features.

Objectives

- Discover and understand the purpose, history, and benefits of Rundeck within an automation ecosystem.
- Set up a complete environment with Rundeck, including configuration, installation, and adding nodes.
- Create, schedule, and manage tasks and jobs (both simple and complex), using variables, Cron expressions, and error-handling mechanisms.
- Secure access to Rundeck through user management, roles, ACL policies, and HTTPS configuration.

- Automate advanced workflows (nested jobs, task chaining, use of external data, and webhooks).
- Integrate Rundeck with other tools via its REST API and customize the interface to meet their needs.
- Troubleshoot and optimize the use of Rundeck in a professional setting.

Target Audience

- System and network administrators
- Developers
- IT professionals
- DevOps engineers

Prerequisites

- Basic knowledge of Linux/Unix operating systems (basic commands, file management, etc.).
- An understanding of IT operations management concepts (task execution, scheduling, etc.).
- Basic scripting skills (Bash, PowerShell, Python, etc.) for Linux and Windows.
- Familiarity with the JSON format (basic reading and writing).

Technical requirements

- A PC running Windows or Linux
- VirtualBox version 7.2.6 or higher installed and operational.
- At least 16 GB of RAM and 27 GB of available disk space on their host machine to import and run the 4 VMs simultaneously.
- Web browser to follow the courses
- Visual Studio Code with the Live Share extension (optional)
- Internet access

Our Rundeck Training Program

[Day 1 - Morning]

Introduction and overview

- Presentation of Rundeck and its uses
- History and evolution of Rundeck
- Benefits and real-world use cases

[Day 1 - Afternoon]

Setting up the environment

- Infrastructure diagram (4 SW Corp VMs)
- Technical prerequisites before getting started
- Importing and configuring VMs (VirtualBox)
- Network configuration and IP/access table
- Installing Rundeck Community and verification
- Adding nodes to Rundeck
- Practical Exercise: Add nodes and explore the interface

Cluster architecture and operation

- Internal operation of Rundeck
- Rundeck at the heart of the ecosystem (load balancer, reverse proxy, etc.)
- Hands-on: Configuring a reverse proxy

[Day 2 - Morning]

Task and job management

- What is a Rundeck job? Types of steps and multi-node execution
- Creation, scheduling (Cron expressions), and error handling
- Hands-on: Create a job step by step, schedule a report, manage errors (Error Handler, Retry)

Security and Access Management

- Local user management and ACL policies
- Action traceability (audit)
- Practical exercise: Secure Rundeck with HTTPS and configure ACLs

[Day 2 - Afternoon] Advanced

automation

- Job sequencing (Job Reference) and pipeline construction
- Using external data and notifications via webhooks
- Hands-on: Build a deployment pipeline, use webhooks

Integration and extensibility

- Rundeck REST API: Triggering jobs remotely

- Customizing Rundeck (interface, plugins)
- Rundeck Enterprise: Additional Features
- Resources for further reading

Target Companies

This training is designed for both individuals and companies—large or small—looking to train their teams in new advanced IT technologies or to acquire specific industry knowledge or modern methodologies.

Placement upon enrollment

The pre-training assessment complies with Qualiopi quality standards. Upon final registration, the learner receives a self-assessment questionnaire that allows us to evaluate their estimated proficiency with various types of technologies, as well as their expectations and personal goals for the upcoming training, within the limits imposed by the selected format. This questionnaire also allows us to anticipate certain connection or internal security issues within the company (intra-company or virtual classroom) that could pose challenges for monitoring and ensuring the smooth running of the training session.

Teaching Methods

Practical Course: 60% Practical, 40% Theory. Training materials distributed in digital format to all participants.

Organization

The course alternates between theoretical input from the trainer, supported by examples and reflection sessions, and group work.

Assessment

At the end of the session, a multiple-choice questionnaire is used to verify that the skills have been properly acquired.

Certification

A certificate will be issued to each trainee who has completed the entire training program.

Training organization registered under number 11 75 54743 75. This registration does not constitute state accreditation.
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