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CompTIA AutoOps+ Training: Certification (AT0-001)

3 days (21 hours)

Overview

The CompTIA AutoOps+ certification is designed for teams looking to streamline their operations through automation, versioning, and Ops-as-Code practices.

It helps structure workflows, ensure reliable deployments, and reduce manual interventions in multi-platform environments.

This training helps you master the fundamentals of systems automation, configuration as code, continuous integration, and continuous delivery.

You'll learn how to standardize target states, secure changes, and better coordinate technical teams around reproducible and traceable processes.

By the end of the course, you'll be able to design more robust automations, anticipate configuration discrepancies, and contribute to faster and more reliable operations.

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

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Objectives

- Understand the principles of automation as applied to IT operations.
- Structure scripts and workflows with a focus on reliability and repeatability.
- Implement configuration-as-code and state management practices.
- Integrate automation into CI and CD pipelines.

- Improve the quality of deployments through validation and observability.
- Effectively prepare for the AutoOps+ certification requirements.

Target Audience

- System administrators looking to transition their practices toward automation.
- Operations engineers involved in the standardization and industrialization of operations.
- Experienced technicians looking to strengthen their scripting and CI/CD skills.
- DevOps professionals looking to build their skills in Ops as Code workflows.
- Technical managers seeking a more structured view of automation processes.

Prerequisites

- Proficiency in the basics of system administration and IT environments.
- Understanding of the fundamentals of networking, services, and deployment.
- Experience working with configuration files or simple scripts.
- Familiarity with the general principles of version control and collaborative workflows.
- Be comfortable reading technical documentation in English, particularly certification terminology.

Our CompTIA AutoOps+ Certification (AT0-001) Training Program

[Day 1 - Morning]

- Establish the framework for AutoOps: objectives, use cases, and the role of automation in modern operations.
- Identify the expected benefits for the business: speed, consistency, reduced errors, and improved traceability.
- Review the fundamentals of scripting applied to operations: logic, variables, conditions, and loops.
- Distinguish between declarative and imperative approaches in automation workflows.
- Introduce common data formats, including JSON and YAML, for exchanging configurations.
- Hands-on workshop: Analyze an operational need and transform a manual task into an that can be automated.

[Day 1 - Afternoon]

- Structure a readable script using a naming convention, helpful comments, and a maintainable organization.
- Explore input/output and parameter management to make automations more flexible.
- Address error handling and control mechanisms to ensure safe execution.
- Understand the benefits of idempotence for repeating an action without altering the target state.
- Align scripts with monitoring and diagnostic needs in an operational context.

- Hands-on workshop: Write a simple script that includes data validation, error handling, and status feedback.

[Day 2 - Morning]

- Introduce configuration as code and its role in standardizing environments.
- Understand the concept of the desired state and how to limit configuration drift.
- Link IaC to version control and team collaboration practices.
- Describe the principles of reproducibility, consistency, and disaster recovery.
- Compare the uses of declarative configuration across development, test, and production environments.
- Hands-on workshop: formalize a target configuration as a versioned file and review potential discrepancies.

[Day 2 - Afternoon]

- Move from static configuration to the automation of deployments and recurring changes.
- Understand the concepts of pipelines, sequential tasks, and checkpoints.
- Discover the principles of automated validation prior to deployment.
- Address the management of artifacts and deliverables in a delivery pipeline.
- Link automation to compliance, stability, and rollback requirements.
- Hands-on workshop: Design a mini validation and deployment pipeline with steps and success criteria.

[Day 3 - Morning]

- Delve deeper into continuous integration: triggers, automated execution, and quality control.
- Understand the relationship between version control, automated testing, and delivery reliability.
- Identify useful metrics for tracking pipeline progress and detecting regressions.
- Organize tests according to their role: unit, integration, and functional validation tests.
- Align CI practices with expectations for collaboration between development and operations.
- Hands-on workshop: Build a CI pipeline workflow based on a simple business use case.

[Day 3 - Afternoon]

- Explore continuous delivery and the conditions necessary for a controlled production rollout.
- Put deployment, rollback, and risk mitigation strategies into perspective.
- Link the concepts of observability, alerts, and automated response to operations requirements.
- Prepare for the exam: read the scenarios, identify keywords, and manage your time.
- Review key concepts: automation, configuration, CI, CD, and cross-functional best practices.
- Hands-on workshop: Solve a complete end-to-end case study by applying the concepts covered over the three days.

Target Audience

This training is intended for both individuals and companies—large or small—that wish to train their teams in a new advanced IT technology or to acquire specific industry knowledge or modern methods.

Pre-training Assessment

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

Hands-On Training: 60% Practical, 40% Theoretical. Training materials distributed in digital format to all participants.

Organization

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

Assessment

At the end of the session, a multiple-choice quiz is administered to verify that participants have successfully acquired the skills.

Certification

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