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Nagios XI Automation Training

2 days (14 hours)

Presentation

Nagios XI is a centralized supervision and monitoring solution for real-time control of systems, applications and networks. Thanks to its automation modules, Nagios XI considerably reduces the time needed to deploy supervision and integrates it directly into your DevOps chains.

Our Nagios XI Automation training course (2 days) will teach you how to automate configuration, system and network monitoring, and integration with your CI/CD pipelines. You'll discover how to exploit the REST API, use automation tools like Ansible and industrialize your monitoring practices.

At the end of the course, you'll be able to install and configure an automated Nagios XI environment, integrate monitoring into your DevOps workflows and guarantee proactive, scalable monitoring of your infrastructures.

Like all our training courses, this one is based on the latest stable version of Nagios.

Objectives

- Automate Nagios XI configuration and administration
- Integrate monitoring into a CI/CD chain
- Automatically supervise networks and systems
- Industrialize dashboards, reports and alerting
- Secure access, APIs and supervision data

Prerequisites

- Basic knowledge of Linux/Windows
- Notions of networks and supervision
- Familiarity with DevOps tools (Ansible, CI/CD)

Target audience

- System and network administrators
- DevOps engineers

Program - Nagios XI Automation

Introduction to Nagios XI and automation concepts

- Nagios XI architecture: core, database, interface, components
- Monitoring objects: hosts, services, groups, dependencies
- Overview of automation levers: REST API, scripts, bulk import
- DevOps positioning: CI/CD integration, Infrastructure as Code
- Workshop: XI installation and automated addition of first hosts

Administration and automated configuration

- Modeling: templates, timeperiods, contacts, escalations
- Automation via Configuration Wizards and CSV import
- Use of REST API to create/update hosts and services
- Integration with Ansible, Puppet, Chef (playbooks/manifests)
- Workshop: Provisioning hosts & services via API and Ansible

Automating network and system monitoring

- Network discovery: scanning, SNMP, profiles and dependencies
- HTTP/SMTP/DNS service monitoring and metrics
- Linux/Windows supervision with agents (NCPA) and remote checks
- Structuring: groups, parents, dependency mapping
- Workshop: Automated discovery + complete supervision of a subnetwork

CI/CD and DevOps integration

- Use the XI API in Jenkins/GitLab CI/Azure DevOps pipelines
- Automate activation of checks after application deployment
- Notifications via Slack, Teams, Webhook
- Use cases: blue/green promotion, post-deployment validations
- workshop: CI/CD pipeline triggering config XI and real-time alerting

Optimization, dashboards and reports

- Alert policies, escalations, acknowledgements
- Automated reporting and customized dashboards
- Performance: Core tuning, event queuing, scheduling
- Distributed/federated supervision, administration delegation
- workshop: automatic generation of reports & dashboards for a team

Security, backups and industrialization

- Securing access: users, roles, API tokens
- Best practices for hardening and compliance
- Automate configuration backups and restores
- Scalability, high availability and resilience strategies
- Workshop: Industrializing secure, automated supervision

Companies concerned

This course is aimed at both individuals and companies, large or small, wishing to train their teams in a new advanced computer technology, or to acquire specific business knowledge or modern methods.

Positioning on entry to training

Positioning at the start of training complies with Qualiopi quality criteria. As soon as registration is finalized, the learner receives a self-assessment questionnaire which enables us to assess his or her estimated level of proficiency in different types of technology, as well as his or her expectations and personal objectives for the forthcoming training course, within the limits imposed by the selected format. This questionnaire also enables us to anticipate any connection or security difficulties within the company (intra-company or virtual classroom) which could be problematic for the follow-up and smooth running of the training session.

Teaching methods

Practical training: 60% hands-on, 40% theory. Training material distributed in digital format to all participants.

Organization

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

Validation

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

Certification

A certificate will be awarded to each trainee who completes the training course.