AMBIENT-IT

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Sign up

Artifactory training

2 days (14 hours)

Overview

JFrog Artifactory is a universal repository manager designed to manage, store and distribute software artifacts. Indispensable in CI/CD pipelines, it centralizes binaries, packages and dependencies while guaranteeing traceability and security.

Our Artifactory training course will teach you how to install, configure and operate the platform in order to make your DevOps workflows more reliable. You'll discover how to integrate Artifactory with your build and orchestration tools (Jenkins, GitLab CI, Kubernetes), secure your artifacts, manage repositories and set up automated pipelines.

You'll also learn how to leverage Artifactory's advanced features, such as Docker repository management, automation with IaC tools, and integration with JFrog Xray to strengthen the security of the software chain.

On completion, you'll be able to deploy a complete Artifactory environment, integrate it into your CI/CD workflows and reinforce the governance and security of your artifacts.

Like all our training courses, this one uses the latest stable version v7.117 of JFrog Artifactory.

Objectives

- Understand Artifactory's role in the DevOps ecosystem
- Install and configure local, remote and virtual repositories
- Secure artifacts and manage access rights
- Integrate Artifactory with CI/CD pipelines
- Deploy Docker registries and manage multi-environment flows
- Exploit the advanced features of the JFrog Platform

Target audience

- DevOps engineers
- System and cloud administrators
- Web developers
- CI/CD architects

Prerequisites

- Notions in DevOps
- Basic knowledge of Docker and Linux systems

Artifactory training program

Introduction to Artifactory and its role in DevOps

- Introduction to JFrog Artifactory and its position in the DevOps ecosystem
- Artifact management: binaries, packages, dependencies
- Role in continuous integration (CI) and continuous deployment (CD)
- Comparison with other repository managers (Nexus, Harbor)
- Main use cases (Java, Docker, npm, PyPI, etc.)
- Workshop: Installation and first launch of Artifactory

Architecture and fundamental concepts

- Notion of local, remote and virtual repositories
- Package organization and metadata management
- Managing permissions, users and groups
- REST API and Artifactory CLI
- Introduction to multiple repositories and their orchestration
- Workshop: Creating local and remote repositories

Artifact management and developer integration

- Software artifact lifecycle management
- Integration with dependency managers (Maven, Gradle, npm, pip)
- Versioning strategies and snapshots
- Deduplication and storage optimization
- Configuring remote proxies
- Workshop: Publishing and consuming a Maven/npm artifact via Artifactory

Security, governance and best practices

- Managing access rights (RBAC, API Key, Access Tokens)
- Integration with LDAP, SSO, OAuth
- Management of retention policies and artifact cleansing

- Good governance practices (audit, logs, compliance)
- Monitoring and supervision (JFrog Mission Control, Prometheus, Grafana)
- Workshop: Setting up retention policies and security auditing

CI/CD integration and automation

- Integration with Jenkins, GitLab CI, GitHub Actions, Azure DevOps
- JFrog pipelines and CI/CD workflow automation
- Artifact management in multi-environment workflows
- Artifact promotion between environments (DEV, QA, PROD)
- Automation via Terraform and Ansible
- Workshop: Deploying a CI/CD pipeline with Artifactory and Jenkins

Advanced deployment and the JFrog ecosystem

- Artifactory on-premise, cloud, SaaS (JFrog Platform)
- Integration with Xray for vulnerability scanning and supply chain security
- Docker repository management and Kubernetes/OpenShift integration
- High availability and scalability strategies
- JFrog ecosystem roadmap and innovations
- Workshop: Deploying a Docker registry on Artifactory and using it in Kubernetes

Companies concerned

This course is aimed at both individuals and companies, large or small, wishing to train their teams in a new advanced IT 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 verifies the correct acquisition of skills.

Certification

A certificate will be awarded to each trainee who has completed the entire course.