ABSTRACT:
Managing binaries correctly is essential to the success of any CI/CD initiative and DevOps standard. As a universal repository manager, JFrog Artifactory is the most popular binary repository in the DevOps ecosystem, providing high availability, performance and storage optimization. Moreover, securing your binaries as early on and throughout your CI/CD pipeline is essential for proper DevSecOps. JFrog Xray provides this required security scanning and open source license governance.

This hands-on training covers the importance of binary management, key Artifactory and Xray features, best practices, working with repository management and build system integration, automating security scanning and enforcing company security and licensing governance policies. You’ll also get - an overview of the complete JFrog Platform that includes: JFrog Distribution and Release Bundles, Edge Nodes, JFrog Mission Control and Access Federation.

AUDIENCE: Developers and DevOps engineers

PREREQUISITES: Basic understanding of the overall Software Development Lifecycle

Overview:
- Binary Management in your SDLC
- Understanding and Managing Third-Party Libraries
- Intro to JFrog Artifactory
- Artifactory in the DevOps “Big Picture” (CI/CD)
- Artifactory as a Universal Package Manager

Repositories:
- Local Repositories
- Remote Repositories
- Virtual Repositories
- Naming Conventions
- Hands-On Lab

Replication:
- Overview of Replication Scenarios
- Push Replication
- Pull Replication
- Star & Mesh Topologies

Metadata and Security:
- The Importance of Metadata
- Properties
- Users & Groups
- Permissions
- LDAP & SSO Integration
- Hands-On Lab

CLI, AQL & REST API:
- REST API support
- JFrog CLI
- Artifactory Query Language (AQL)
- Hands-On Lab

Build Integration:
- Build Integration Plugins
- Promotion API
- Best Practices
- Hands-On Lab

High Availability and Disaster Recovery:
- Understanding Artifactory HA
- HA Best Practices
- Disaster Recovery (DR)

Plugins:
- Introduction to User Plugins
- Extension Points
- Sample Plugins

Administration:
- Garbage Collection & Storage Management
- Maintenance & Monitoring
- Troubleshooting

DevSecOps and binary scanning overview:
- Intro to DevSecOps and Binary Scanning
- Xray Architecture
- Xray in the DevSecOps Pipeline
- Enforcing Security and License Compliance Policies
- Xray Build Integration
- IDE Integration
- Impact Analysis and Remediation
- Hands-On Lab

JFrog Platform overview:
- JFrog Platform Overview
- JFrog Distribution and Release Bundles
- JFrog Edge Nodes
- JFrog Mission Control
- JFrog Access Federation