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IBM Sterling Training

4 days (28 hours)

Overview

Our IBM Sterling training course dedicated to integration and supervision tools will teach you how to leverage a comprehensive platform to orchestrate flows between partners, secure file transfers and automate business processes at the heart of your information system.

You'll be able to design robust B2B processes, supervise data exchanges, configure secure transfers, and integrate the platform into a CI/CD pipeline. You'll also be able to monitor performance, set up intelligent alerts, and industrialize trading partner onboarding.

This training course will enable you to manage critical exchanges on a large scale, while guaranteeing their reliability, traceability and compliance. It can be adapted to all types of infrastructure: traditional, containerized or cloud-native.

At the end of the course, you'll be able to deploy, configure, supervise and automate your integration flows and omnichannel orders.

Like all our training courses, this one will introduce you to the latest stable version of the IBM environment.

Objectives

- Understand the components of a modern B2B integration platform
- Deploy a containerized environment on Kubernetes or OpenShift
- Create business processes (BPML) to automate exchanges
- Secure file transfers via File Gateway or Connect:Direct
- Integrate processes into a DevOps CI/CD chain
- Supervise workflows with Grafana, Prometheus and Control Center
- Manage errors, SLAs and notifications

Target audience

- DevOps
- Technical architects
- Technical project managers

Prerequisites

- Basic knowledge of DevOps
- Familiarity with the Linux command line
- Knowledge of cloud architectures

Introduction to IBM Sterling

- Introduction to the IBM Sterling suite
- History and use cases B2B, MFT, OMS
- Main modules: B2B Integrator, File Gateway, OMS
- Role of DevOps in Sterling operations
- General architecture (on-prem, cloud, container)
- Presentation of tools used in training

Technical architecture of the platform

- Modular architecture of Sterling B2Bi
- Technical components: Adapters, Services, Process Engine
- Integration with existing information systems (ERP, API, ESB, etc.)
- Concepts of high availability and scalability
- Components of a containerized deployment
- Secure Proxy and DMZ concepts

Sterling cloud-native deployment

- Presentation of OpenShift/Kubernetes for Sterling
- Docker images, Helm Charts, persistent volumes
- Secrets, configmaps and sensitive parameters
- Component clustering (HA / load balancing)
- Deployment best practices
- Workshop: Deploying Sterling B2Bi on local Kubernetes (Minikube/OpenShift)

Introduction to business processes

- Business Process concepts in Sterling
- Standard services (file, HTTP, FTP, database...)
- Creating and editing processes with GPM
- Logical sequencing, variables and error checking
- Monitoring process execution (logs, tracking)
- Workshop: Creating an end-to-end B2B process

B2B partner management

- Sterling trading partner concepts
- Creating and configuring a partner profile
- Communication properties (certificates, protocols)
- Automated onboarding with Partner Engagement Manager
- Monitoring of exchanges and partner SLAs
- Security of inter-company exchanges (authentication, encryption)

Data mapping and transformation

- Introducing IBM ITX
- EDI ? XML ? JSON
- Use of schemas, conditional mappings
- Handling transformation errors
- Integrating maps into processes
- Workshop: Creating and integrating an EDI ? JSON in a Sterling process

Secure file transfer (MFT)

- Presentation of Sterling File Gateway and Connect:Direct
- Internal and partner file transfers
- Encryption, compression, disaster recovery
- Configuring an MFT flow in the Gateway
- Exchange logging and auditing
- Secure DMZ proxy with Sterling Secure Proxy

Monitoring and observability

- IBM Sterling Control Center
- Visualization of processes, files and errors
- Integration with Prometheus and Grafana
- Alerting (SLAs, timeouts, logs)
- Customized dashboards
- Workshop: Deploying a Grafana dashboard to monitor Sterling flows

Error management and resilience

- Error types (transfer, mapping, process...)
- Execution and technical logs
- Automatic recovery and notification
- Failover and queuing
- Application resilience best practices

CI/CD and DevOps integration

- Export/import of Sterling configurations
- Using Git to version processes and maps
- Deployment via Helm / GitOps / Jenkins / ArgoCD
- Promotion of environments (dev ? prod)
- Use case: Integration into a complete CI/CD chain

Presentation of Sterling Order Management

- OMS functional architecture (microservices, APIs)
- Omnichannel order lifecycle management
- Integration with front-end, ERP and WMS
- REST API exposure and monitoring
- Use cases: Click & Collect, multi-warehouse shipping

Summary, final workshop and best practices

- Recap of key points
- Good governance and security practices
- Performance optimization (scaling, cache, threads)
- Choice of hybrid cloud / SaaS / on-prem
- Workshop: Full integration - automate an order flow via OMS with log, monitoring and alerts

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 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 and

and group work sessions.

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 issued to each trainee who completes the training course.