



HIVEMQ

Partner Enablement Workshop Technical Track

Workshop Agenda



Who this workshop is for ?

This session is aimed at our partners' technical teams. We take a closer look at the platform, its different bricks and how they work.

We will cover topic like enterprise broker deployment and security, extension configuration, DataHub policies and transformations, HiveMQ Edge and it's protocol adapters.

Prerequisite :

- Have a good understanding of HiveMQ Platform.
- Have basic knowledge on kubernetes and linux.



What is the goal of the training ?

The aim of this workshop is to train our partners' teams in the installation and advanced configuration of the HiveMQ platform.

After attending to the workshop, you will be able to implement a production site with best practices on security and enterprise extensions configured.



Day 1 : Foundations of HiveMQ

Morning

(From 8am to 12am)

Mod 1 -> Overview of HiveMQ: Understanding HiveMQ as an enterprise-ready platform.

Mod 2 -> Key Features and Architecture : Discuss the core features of HiveMQ, including scalability, security, and compliance with MQTT standards, extensions. Deep dive into the architecture of HiveMQ, focusing on its scalability and enterprise-grade security concepts.

Ho1 -> Hands-On : Basic configuration and Setup of the Enterprise Broker.

Mod 3 -> Security Configuration: Configuring HiveMQ for enterprise-grade security, including authentication and authorization mechanisms.

Ho2 -> Hands-On : Add the Enterprise Security Extension to your deployment.

Afternoon

(From 2pm to 7pm)

Mod 4 -> Enterprise Extensions: Detailed look at extensions for Streaming, Databases, and Data lakes.

Ho3 -> Hands-On : Add the Enterprise Database extension for PostgreSQL to your deployment.

Mod 5 -> Monitoring and Observability: Setting up monitoring for HiveMQ deployments.

Ho4 -> Hands-On : Add Prometheus extension to your deployment, collect the metrics and visualize with Grafana.

(Bonus) Mod 6 -> Performance Tuning: Techniques for optimizing HiveMQ performance in high-load scenarios and how to use Swarm to test it.

(Bonus) Ho5 -> Hands-On : Extend your deployment to a cluster and run a load test.

Day 2 : DataHub and Edge

Morning

(From 8am to 12am)

Mod 7 -> HiveMQ Data Hub: Understanding the Data Hub and it's modules for data transformation and validation.

Ho6 -> Hands-On : Configure a policy and data transformation in your platform.

Mod 8 -> Introduction to HiveMQ Edge: Understanding HiveMQ Edge and the differences between the open source edition and the enterprise edition. Overview of pre-built protocol adapters (Beckhoff ADS, Ethernet IP, HTTP(s), OPC UA, ModBus, Siemens S7, File Input, Simulation, BACnet).

Ho7 -> Hands-On : Setup of HiveMQ Edge, Configuration of an OPC-UA protocol adapter with northbound and southbound mappings.

Afternoon

(From 2pm to 7pm)

Mod 9 -> Our SDKs: Quick look at extensions and protocol adapter SDK and there capabilities.

Recap: Summary of the key points covered in the workshop.

Q&A Session: Open floor for questions and discussions.

Brainstorming : Share your challenges