

Updated 04/19/2024

Sign up

Streamdal training

2 days (14 hours)

Presentation

Integrate privacy controls into your application code with our Streamdal training. This will enable you to detect personal information as it enters and leaves your systems, preventing it from reaching unintended databases or pipelines.

Streamdal supports all common programming languages, so your team can easily implement robust data management.

In addition to basic functionality, the technology teaches you anomaly detection, error management and horizontal scalability to meet the evolving needs of your business.

With Streamdal, you'll develop essential skills in data engineering, continuous processing, real-time analysis and [data quality](#) management.

This course will be presented with the latest Streamdal features, [version 0.0.6](#) (at the time of publication).

Objectives

- Configuring and running a data pipeline
- Deploy Streamdal in different environments
- Efficiently manage data pipelines
- Integrate Streamdal with existing applications using the SDKs and libraries available.

Target audience

- Engineers
- Data Scientists
- Data Analysts
- Developers
- DevOps

PREREQUISITES

- Basic understanding of data processing concepts
- Basic programming experience
- Working knowledge of development and deployment environments

STREAMDAL TRAINING PROGRAM

INTRODUCTION TO STREAMDAL

- What is Streamdal?
- Streamdal use cases overview
- Streamdal architecture and main components
- Overview of the ecosystem and its integration into existing workflows
- Discover the differences with other data processing platforms

QUICK START WITH STREAMDAL

- Environment setup and configuration
- Creating your first data pipeline
- Exploring the console user interface
- Executing basic commands via the Streamdal server
- Create a simple project to understand workflows

INSTRUMENTATION AND DEPLOYMENT

- Application instrumentation best practices
- Streamdal deployment in different environments (cloud, on-premises)
- Using Terraform to manage Streamdal infrastructure
- Notification settings for monitoring and alerts

PIPELINE MANAGEMENT IN STREAMDAL

- Advanced data pipeline creation and management
- Real-time data transformation and aggregation techniques
- Using the Tail tool for log streaming
- Integrating pipelines with external systems
- Best practices for pipeline scalability and maintenance

SDK AND LIBRARIES/SHIMS

- Introducing the Streamdal Software Development Kit (SDK)
- Streamdal SDK for Go and Node.js languages
- Overview of available libraries and shims
- Practical examples of Streamdal integration with existing applications

PRACTICAL WORKSHOP AND USE CASES

- Setting up a development environment for the workshop
- Development of a demonstration application using Streamdal
- Data flow simulation and live pipeline implementation
- Real-time analysis of results and adjustments
- Feedback and best practices from real-life cases

Companies concerned

This training 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 training to come, 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 course: 60% Practical, 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.

Sanction

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