Updated 03/28/2024

Sign up

Zilliz training

2 days (14 hours)

Presentation

Master vector data management with our Zilliz training course. Master the ecosystem

Milvus and exploit its features to meet the complex challenges of large-scale vector data management and analysis!

This training program will cover fundamental and advanced aspects of Zilliz, providing you with a solid understanding and practical skills to manage clusters and collections, secure data and integrate Zilliz into their existing data workflows.

You'll have a thorough understanding of security, monitoring and incident management strategies to ensure data reliability and availability.

Our training will enable you to explore ANN search and similarity metrics for accurate search results.

At the end of this course, we'll be using the latest Zilliz resources.

Objectives

- Configuring and managing Zilliz clusters
- Understanding different indexing techniques
- Acquire the necessary skills
- Implement user authentication, access authorizations and data security strategies
- Develop backup, restore and monitoring strategies

Target audience

- Developers
- Data analysts
- Data scientists
- Data engineers
- Solution architects
- Database administrators

Prerequisites

- Basic knowledge of database management and data processing
- Prior understanding of cloud computing and Big Data concepts would be a plus

OUR ZILLIZ TRAINING PROGRAM

INTRODUCTION TO ZILLIZ BASICS

- Introducing Zilliz and its usefulness in vector data management
- Understanding the AUTOINDEX concept and its importance
- Explanation of key terms: Cluster, Collection and Entities
- Introduction to ANN (Approximate Nearest Neighbor) search
- Discussion of similarity metrics and their application

CLUSTER CONFIGURATION AND MANAGEMENT

- Steps to set up a Zilliz cluster
- Techniques for ensuring scalability and high availability
- Level of consistency in a distributed environment
- Best practices for cluster data security
- Cluster performance monitoring

COLLECTION MANAGEMENT AND INDEXING

- Process for creating and managing collections in Zilliz
- Understanding different types of data and their indexing
- Indexing strategies to optimize search performance
- Schematic versioning and backward compatibility
- Case studies: Handling collections and indexes

DATA IMPORT AND NORMALIZATION

- Methods for importing large quantities of data
- Data normalization and pre-processing techniques
- Automating the data import process
- Case study in efficient data import

- Handling errors and inconsistencies during import

AUTHENTICATION AND AUTHORIZATION

- Setting up user authentication in Zilliz
- Configure roles and permissions for data access
- Integration with existing identity and access management systems
- Best practices for securing data access
- Practical exercises in managing access rights

BACKUP, RESTORATION AND MONITORING

- Data backup strategies and business continuity planning
- Fast, efficient restoration procedures in the event of an incident
- Configure metrics and alerts for proactive monitoring
- Network security best practices and threat protection
- Practical workshop on monitoring and incident management

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 is used to check correct acquisition.

skills.

Sanction

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