PERCONA

PERCONA TRAINING FOR MONGODB

Take your professional growth to the next level—deepen your understanding and practical knowledge of MongoDB

Percona for **MongoDB**

Learn more at **percona.com/mongodb**

Why Take MongoDB Training?

Our MongoDB training material is up to date with the latest features and caveats of Percona Server for MongoDB 8.0 and contains the current industry best-practice standards.

Most modules contain exercises to reinforce the topic being discussed and to keep the class and students engaged in the material.

START LEARNING NOW

MongoDB Operations

Duration: Two days

What you get: This 2-day course is geared for the "operations" role - the person who is responsible for standing up new MongoDB instances, performing backups and recovery, monitoring and troubleshooting.



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Why MongoDB? - An Introduction

Basic Administration

- Installing MongoDB
- Upgrading MongoDB
- Memory Usage
- Storage Engine Choices
- Filesystems
- OS Tuning
- Mongo Shell
- Authentication

Replication

- Overview
- Oplog
- Heartbeats
- Election of New Primary
- Configuration
- Read/Write Concern
- Tagging
- Member Priority

Security

- Authentication Options
- User management
- Challenge/Response
- Certificate-based
- Internal Membership
- Roles
- Resource Limits
- External Authentication (SASL, LDAP)
- Audit Logging
- Encryption, Key Rotation
- SSL/TLS (Using and Migrating to)

Backups and Recovery

- Binary Dump
- Filesystem Snapshots
- Binary copy/offline
- Hot backups
- Percona Backup for MongoDB

High Availability

- Replica sets
- Primary, Secondary reads
- Rolling Maintenance
- Node discovery
- Auto failover
- Geo-distribution of data

Monitoring

- Percona Monitoring and Management
- Alerting in Practice

Troubleshooting

- mongod/mongos Logs
- mongostat, mongotop
- Built-in tools (profiler, stats)

MongoDB Developers

Duration: Two days

What you get: This 2-day course is targeted for the developer role - the person who designs and builds applications using MongoDB.



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Why MongoDB? - An Introduction

Architecture and Design

- Scaling Out
- Storage Engines and Memory
- Clustering/Sharding Introduction

Constructs

- Instances, Databases, Collections, Documents
- Data types
- Views

Command Basics

- CRUD Operations
- Query (Reading)
- Updates
- Deletes
- Batch Insert/Update/Delete
- Comparisons
- Profiling Queries

Indexes

- Value of Indexes
- Basics
- Indexing Types
- Geospatial
- Query Plan Analysis

Sharding

- Shard Keys
- Chunks
- Mongos
- Config Servers
- Balancer

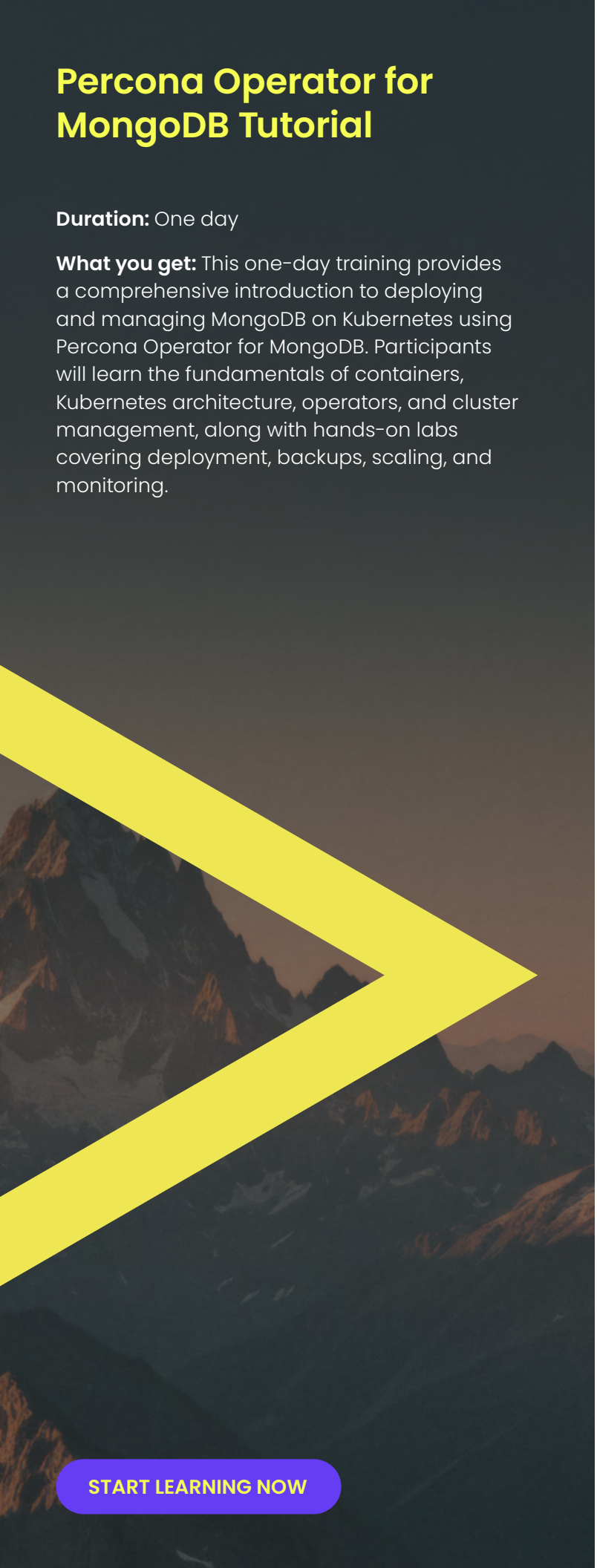
Security basics

- Authentication Options
- Challenge/Response
- Certificate-based
- Internal membership
- Roles
- Audit Logging

Percona Operator for MongoDB Tutorial

Duration: One day

What you get: This one-day training provides a comprehensive introduction to deploying and managing MongoDB on Kubernetes using Percona Operator for MongoDB. Participants will learn the fundamentals of containers, Kubernetes architecture, operators, and cluster management, along with hands-on labs covering deployment, backups, scaling, and monitoring.



START LEARNING NOW

Kubernetes Fundamentals

- What is Kubernetes?
- How Kubernetes orchestrates containers
- Core Kubernetes architecture

Kubernetes Operators and Percona Operator for MongoDB

- What are Kubernetes Operators, and why are they important?
- Installing and managing Percona Operator for MongoDB
- Automating MongoDB cluster creation, scaling, and maintenance

Configure and Deploy MongoDB on Kubernetes

Logical Backup, and Recovery

Customizing MongoDB configurations

Upgrading the Operator, and MongoDB

Scaling MongoDB on Kubernetes

Monitoring, and Cross-Site Replication

By the end of this course, participants will have a solid understanding of Kubernetes Operators, with a specific focus on Percona Operator for MongoDB. They will gain the skills to deploy, manage, and scale MongoDB clusters efficiently within Kubernetes environments using best practices.