+33 (0)1 48 10 09 46
formation@ambient-it.net
140 Avenue Jean Lolive 93500 Pantin - France

Updated on 10/14/2026

Sign Up

Zenko Training: Multicloud Management of S3 Object Storage

2 days (14 hours)

Overview

Zenko is a multicloud data controller that enables you to manage objects between local storage and public clouds. With its S3-compatible API, unified namespace, metadata search, and asynchronous replication, Zenko makes it easy to build hybrid storage strategies tailored to your organization's needs.

Our Zenko training course: Public and On-Premises Data Management will equip you with the essential skills to organize your data, connect your storage systems, and manage data transfers in a hybrid environment.

You'll learn how to configure storage locations, manage buckets and objects, leverage their metadata, and define replication rules between on-premises infrastructure and a public cloud.

Upon completion of the training, you will be able to verify data transfers, diagnose failures, manage versioning, and select lifecycle policies consistent with your retention requirements.

This training also covers access control, monitoring, transfer costs, and the limitations of connected services to ensure reliable data management in real-world conditions.

Like all our training courses, this one will introduce you to **the latest stable version** of the technology and its new features.

Objectives

- Understand Zenko’s architecture and the principles of hybrid object storage
- Configure local and public storage locations with dedicated access
- Manipulate objects and search for their metadata in Zenko
- Set up asynchronous replication and verify that it is working
- Define lifecycle rules and troubleshoot transfer issues

Target Audience

- Storage administrator
- System administrator
- Cloud engineer
- DevOps engineer
- Infrastructure Architect

Prerequisites

- Experience with system administration and the command line in Linux
- Knowledge of object storage and basic S3 API operations
- Basic understanding of containerization with Docker and orchestration with Kubernetes
- Understanding of networking, permissions, and cloud storage principles

Technical Prerequisites

- Computer with at least 8 GB of RAM and an up-to-date Firefox or Chrome browser to access the remote lab
- SSH terminal and AWS CLI v2 available on your computer or in the training virtual machine Linux
- Access to a preconfigured Zenko educational environment on Kubernetes, with persistent local storage and test accounts
- Stable internet connection allowing access to the lab and an Amazon educational account S3 with dedicated buckets and permissions

Curriculum for our Zenko training: managing public and local data

[Day 1 - Morning]

Architecture and Data Access

- Principles of object storage: buckets, keys, objects, and metadata
- Zenko’s role in a local and multicloud storage architecture
- Roles of CloudServer, Backbeat, and metadata services
- How the unified namespace works and the distinction between data and metadata
- Accessing the Training Environment via the Zenko Interface and AWS CLI

- Hands-on Workshop: Explore the provided Zenko instance, create a local bucket, and upload and retrieve objects using the AWS CLI.

[Day 1 - Afternoon]

Connecting storage systems and organizing objects

- Configuring storage locations and choosing where to store objects
- Connecting to Amazon S3 and comparing the constraints of Azure Blob Storage and Google Cloud Storage
- Managing dedicated credentials, minimal permissions, and secret protection
- Organizing prefixes, custom metadata, and naming conventions
- Searching for metadata using a SQL-like syntax and identifying its limitations
- Hands-on workshop: Connecting to an Amazon S3 bucket, comparing on-premises and cloud storage for datasets, and retrieving objects by their metadata.

[Day 2 - Morning]

Replication between local storage and the public cloud

- Principles of asynchronous replication and their impact on availability times
- Preparing sources and destinations by enabling versioning and verifying permissions
- Creating replication rules with destination, prefix, and activation status
- Distinguishing between new objects and pre-existing objects, which are not automatically replicated by a new rule
- Monitoring replication statuses, reading target objects, and verifying transferred content
- Hands-on Workshop: Configure replication from local storage to Amazon S3, test a prefix filter, and verify the versions and content of replicated objects.

[Day 2 - Afternoon]

Lifecycle and Operational Reliability

- Differences between object replication, transition, and expiration
- Defining lifecycle policies and verifying the actions supported by the environment
- Aligning retention periods and locations with governance requirements and transfer costs
- Monitoring processing queues, metrics, and logs to identify delays and failures
- Diagnosing network or authentication issues, resuming transfers, and validating a recovery procedure
- Hands-on workshop: Define a lifecycle policy for a test bucket, trigger a controlled replication failure, resolve the cause, and verify the recovery of a replicated object.

Target Audience

This training is intended for both individuals and companies—large or small—that wish to train their teams in new, advanced IT technologies or to acquire specific business knowledge or modern methodologies.

Pre-training Assessment

The pre-training assessment complies with Qualiopi quality standards. Upon final registration, the learner receives a self-assessment questionnaire that allows us to evaluate their estimated proficiency level across various types of technologies, as well as their expectations and personal goals for the upcoming training, within the limits imposed by the selected format. This questionnaire also allows us to anticipate certain connection or internal security issues within the company (intra-company or virtual classroom) that could pose challenges for monitoring and ensuring the smooth running of the training session.

Teaching Methods

Hands-On Training: 60% Practical, 40% Theoretical. Training materials distributed in digital format to all participants.

Organization

The course alternates between theoretical input from the instructor—supported by examples and reflection sessions—and group work.

Assessment

At the end of the session, a multiple-choice quiz is administered to verify that participants have successfully acquired the skills.

Certification

A certificate will be issued to each trainee who has completed the entire training program.

Training organization registered under number 11 75 54743 75. This registration does not constitute state accreditation.
© Ambient IT 2015-2026. All rights reserved. Paris, France - Switzerland - Belgium - Luxembourg