

ECS Administration

Course Description

Course Duration

5 Days

Overview

This course provides detailed coverage of ECS features designed to support typical use cases, including global content repository, geo-scale object storage with Access Anywhere, and Big Data Analytics.

Audience

This course is intended for anyone who needs to manage, customize, monitor, or use an ECS system for data storage.

Prerequisite Knowledge/Skills

Familiarity with storage solutions in single and multi-site data center environments, including block, file, and object storage; and basic cloud concepts.

Course Objectives

Upon successful completion of this course, participants should be able to:

- Provide an overview of the ECS solution, its components, and typical deployment configurations
- Explain ECS architecture, core software constructs, data flows, and internal operation
- Use the ECS Portal to configure and manage an ECS solution
- Demonstrate how ECS works as object storage with local replication and geo replication
- Perform metering, monitoring, basic health checks, and basic troubleshooting in an ECS environment
- Customize and use supported data clients to access ECS storage

Support Contact

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Course Outline

The content of this course is designed to support the course objectives.

- Module 1: Overview of the ECS Solution
 - ECS Introduction
 - Typical ECS Configurations
 - Gen3
 - ECS Network
 - Use Cases

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- Module 2: ECS Architecture
 - ECS Architecture Overview
 - Core ECS Abstractions Layers
 - Data Packaging and Local Protection
 - Failure Handling and Failover Scenarios
 - ECS Space Reclamation
 - Lab: Exploring your ECS lab environment
 - Lab: Connecting to your class lab environment
- Module 3: Managing ECS using the ECS Portal
 - Configuring Storage Pools, VDCs, and Replication Groups
 - Configuring Namespaces, Users, and Buckets
 - ECS Security
 - Lab: Configure ECS Storage Infrastructure
 - Lab: Basic tests of I/O access from various data clients (Namespace, Users, and Buckets)
- Module 4: ECS Access from Object Clients
 - S3 API Client with ECS
 - Swift API Client with ECS
 - Centera CAS API with ECS
 - Hadoop Clients with ECS
 - ECS File Access
 - GeoDrive
 - CLI
 - Cloud DVR
 - REST API
 - Lab: Basic tests of I/O access from various data clients
- Module 5: Advanced Configuration
 - Access Control, Retention, and Quotas
 - Multi-tenancy Considerations
 - ECS D@RE
 - Lab: ECS customizations: ACLs, quotas, and retention
 - Lab: ECS Identity and Access Management (IAM)
 - Lab: Multi-tenancy with Active Directory/LDAP Integration
- Module 6: ECS Monitoring and Maintenance
 - Monitoring Capabilities
 - Maintenance
 - SNMP Support
 - Syslog Support

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- ECS Performance Monitoring
- ECS Logs
- Lab: ECS Monitoring and Maintenance

- Module 7: Troubleshooting
 - Lab: Temporary Site Outage (TSO) and Permanent Site Outage (PSO)

In addition to lecture and demonstrations, this course includes labs designed to allow practical experience for the participant.

Course Delivery Modes and Product Version Information

Refer to the **Product Version Description** document for a list of Delivery Modes and product versions covered by this course.

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