

# 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.
- Identify 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.

### 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
- Module 2: ECS Architecture
  - ECS Architecture Overview

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- Core ECS Storage 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
  - REST API
  - Lab: Basic tests of I/O access from various data clients
- Module 5: Advanced Configuration
  - Access Control and Bucket policies
  - Retention, and Quotas
  - Multi-tenancy
  - 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
  - ECS Performance Monitoring
  - ECS Logs

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- 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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