



DELL TRAINING

Dell Emc Elastic Cloud Storage Ecs

Master Dell EMC ECS for scalable object storage. Learn to deploy, manage, and optimize your cloud storage infrastructure.

DURATION

Flexible

LEVEL

Intermediate

FORMAT

Instructor-Led

- Globally Recognized Certification

- Expert-Led Hands-On Training

- Flexible Scheduling

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COURSE OVERVIEW

The Dell EMC Elastic Cloud Storage (ECS) course is designed for IT professionals seeking to master the intricacies of petabyte-scale object storage solutions. This comprehensive program delves into the architecture, deployment, and management of Dell EMC's leading object storage platform, enabling participants to effectively handle vast amounts of unstructured data. You will explore core technologies such as S3 compatibility, multi-protocol access (S3, Swift, NFS, HDFS), geo-distribution capabilities, and advanced data protection mechanisms critical for modern data centers and cloud environments. This course provides the essential skills to design, implement, and operate a robust, scalable, and cost-efficient object storage infrastructure. By understanding ECS, you can modernize your organization's data strategy, support demanding cloud-native applications, facilitate big data analytics, and build resilient private or hybrid cloud storage solutions. Graduates will be equipped to reduce total cost of ownership (TCO) for storage while ensuring high availability and compliance, positioning them as invaluable assets in today's data-driven landscape.

Level	Intermediate
Vendor	Dell

COURSE CURRICULUM

01 Module 1: Introduction to Dell EMC ECS and Object Storage Concepts

- Understanding Object Storage: Principles, benefits, and use cases
- Overview of Dell EMC Elastic Cloud Storage (ECS) architecture
- ECS features: Scalability, multi-protocol access, geo-distribution
- Comparison of ECS with traditional block and file storage
- ECS deployment options: Appliance vs. software-defined

02 Module 2: ECS Deployment, Configuration, and Basic Administration

- Planning an ECS deployment: Sizing, networking, and prerequisites
- Initial ECS cluster setup and configuration
- Navigating the ECS Portal for administrative tasks
- Managing tenants, users, and namespaces
- Understanding storage pools and virtual arrays

03 Module 3: Data Access and Management Protocols

- Utilizing the S3 API for object storage operations
- Working with OpenStack Swift API for cloud integration
- Configuring NFS for file-based access to ECS
- Integrating ECS with Hadoop Distributed File System (HDFS)
- Bucket policies, access control lists (ACLs), and data lifecycle management

04 Module 4: Data Protection, Security, and Advanced Features

- ECS data protection mechanisms: Erasure Coding and replication strategies
- Implementing geo-distribution for multi-site resilience and disaster recovery
- Security best practices: Authentication, authorization, and encryption at rest/in transit
- Configuring data retention policies and legal hold
- Integration with external identity providers and monitoring tools

05 Module 5: ECS Operations, Performance, and Troubleshooting

- Monitoring ECS cluster health and performance metrics
- Log analysis and identifying common operational issues

- Capacity planning and scaling considerations for growing data needs
- Troubleshooting data access and connectivity problems
- Best practices for maintaining a healthy and efficient ECS environment

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Cloud Storage Architect specializing in multi-petabyte object storage solutions**
- > **Enterprise Data Center Modernization Engineer focusing on unstructured data platforms**
- > **DevOps Engineer with expertise in S3-compatible storage for cloud-native applications**

FREQUENTLY ASKED QUESTIONS

Q: What are the recommended prerequisites for effectively benefiting from the Dell EMC Elastic Cloud Storage ECS course?

Participants should possess a foundational understanding of storage area networks (SAN) or network-attached storage (NAS) concepts, IP networking principles, and basic Linux command-line operations. While not strictly mandatory, prior exposure to cloud computing concepts or RESTful APIs would be advantageous for grasping advanced topics.

Q: What specific practical skills will I acquire upon completing the Dell EMC Elastic Cloud Storage ECS course?

Upon completion, you will be proficient in deploying and configuring Dell EMC ECS clusters, managing S3-compatible object storage for various applications, implementing robust geo-distributed data protection strategies, and integrating ECS with both on-premises and cloud environments. You will also gain hands-on experience in monitoring system health, optimizing performance, and troubleshooting common operational issues within an ECS infrastructure.

Q: How does expertise in Dell EMC ECS enhance my value in roles focused on hybrid cloud and big data initiatives?

Expertise in Dell EMC ECS positions you as a critical asset for organizations embracing hybrid cloud strategies and managing massive unstructured datasets. You will be able to design and implement highly scalable, cost-effective object storage solutions that seamlessly integrate with both traditional enterprise applications and public cloud services, directly supporting big data analytics platforms, archival solutions, and modern cloud-native development workflows.

ABOUT COMPUTER PRIDE



East Africa's Premier IT Training Center

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

15+

Years of Excellence

10,000+

Professionals Trained

50+

Vendor Certifications

READY TO ENROL?

Take the next step in your technology career.

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