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Sign up

Dell EMC Unity SAN Training

2 days (14 hours)

Overview

Dell EMC Unity SAN is a unified storage solution combining performance, resilience and flexibility. It offers support for SAN and NAS environments, while integrating into multi-cloud and DevOps architectures.

Our Dell EMC Unity SAN training course will teach you how to install, configure and administer Unity in your IT infrastructures.

You'll discover how to create LUNs, manage storage pools, ensure high availability and integrate Unity with your VMware, Hyper-V and Kubernetes environments.

You'll also learn how to optimize performance, secure access and automate management using APIs and infrastructure as code tools.

By the end of the course, you'll be able to deploy a high-performance, resilient Unity SAN infrastructure, integrate it into your DevOps workflows and strengthen the business continuity of your systems.

Like all our training courses, this one uses the latest stable version of Dell Unity.

Objectives

- Understand the key concepts of Dell EMC Unity SAN
- Install and administer a Unity environment
- Configure pools, LUNs, snapshots and replication
- Ensure high availability and disaster recovery
- Automate administration with APIs and DevOps tools
- Optimize performance and security

Target audience

- DevOps engineers
- System administrators
- Cloud and infrastructure architects

Prerequisites

- General knowledge of Linux/Windows
- SAN/NAS network concepts
- Notions of DevOps

Dell EMC Unity SAN training program

Introduction to Dell EMC Unity SAN

- Dell EMC Unity product range and market positioning
- Fundamental concepts: SAN, NAS, Unity
- Use cases for DevOps and multi-cloud environments
- Comparison with other storage solutions (NetApp, HPE, IBM)
- Performance, availability and resilience
- Workshop: Discovering the Unity management interface

Architecture and main components

- Overview of Unity architecture (SP, DAE, DPE)
- SAN (FC, iSCSI) and NAS (NFS, SMB) protocol operation
- Disk, storage pool and LUN management
- Integration with VMware, Hyper-V and virtualized environments
- Snapshots and replication
- Workshop: Creating and presenting a LUN via iSCSI

Administration and day-to-day management

- Using the Unisphere interface and Unity CLI
- Creating pools, LUNs, file systems and NAS shares
- Managing snapshots and clones
- Performance monitoring and resource allocation
- User access management and basic security
- Workshop: Deploying an NFS share and measuring performance

High availability and replication

- Synchronous and asynchronous replication concepts
- High availability management and disaster recovery
- Notions of consistency groups and DR

- Integration with VMware SRM and multi-site environments
- Practical cases of planned and unplanned failover
- Workshop: Configuring Unity replication to a secondary site

Security, optimization and DevOps integration

- Best practices for securing volumes and accesses
- Optimization: caching, thin provisioning, automatic tiering
- Monitoring and alerting with Unisphere and Prometheus/Grafana integration
- Automation via Ansible, PowerShell and REST API Unity
- Integration with CI/CD pipelines for DevOps environments
- Workshop: Automating LUN creation with Ansible

Summary and outlook

- Summary of essential Unity SAN concepts
- Real-life use cases: consolidation, VDI, DevOps, Hybrid Cloud
- Dell EMC Unity roadmap and alternatives
- Common pitfalls and best practices in production
- Conclusion and industrialization roadmap
- Workshop: Drawing up a Unity evolution plan for an existing IS

Companies concerned

This course is aimed at both individuals and companies, large or small, wishing to train their teams in a new advanced IT technology, or to acquire specific business knowledge or modern methods.

Positioning on entry to training

Positioning at the start of training complies with Qualiopi quality criteria. As soon as registration is finalized, the learner receives a self-assessment questionnaire which enables us to assess his or her estimated level of proficiency in different types of technology, as well as his or her expectations and personal objectives for the forthcoming training course, within the limits imposed by the selected format. This questionnaire also enables us to anticipate any connection or security difficulties within the company (intra-company or virtual classroom) which could be problematic for the follow-up and smooth running of the training session.

Teaching methods

Practical training: 60% hands-on, 40% theory. Training material distributed in digital format to all participants.

Organization

The course alternates theoretical input from the trainer, supported by examples, with brainstorming sessions and group work.

Validation

At the end of the session, a multiple-choice questionnaire verifies the correct acquisition of skills.

Certification

A certificate will be awarded to each trainee who has completed the entire course.