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VMware vSphere 7 Training - Intermediate Level

3 days (21 hours)

Presentation

VMware vSphere 7, Tanzu, uses virtualization to transform individual data centers into aggregated IT infrastructures including CPU, storage and networking resources. VMware vSphere manages these infrastructures as a unified operating environment, and provides the tools to administer the data centers that participate in this environment. The VMware vSphere stack comprises virtualization, management and interface layers. The two main components of vSphere are ESXi and vCenter Server. ESXi is the virtualization platform on which you create and run virtual machines and devices. vCenter Server is the service that lets you manage multiple hosts connected in a network and host resources in a pool.

Objectives

- Install and configure VMware vSphere virtual infrastructure components: ESXi, vCenter
- Configuring and managing the virtual network in vSphere
- Configure, manage and optimize storage in VMware vSphere
- Improve and optimize resource allocation with VMware Distributed Resource Schedule
- Implement fault tolerance for virtual machines with Fault Tolerance
- Setting up VM replication with vSphere Replication
- Secure access to VMware infrastructure

Target audience

- Administrators and Architects

Prerequisites

- Basic knowledge of Linux/Unix or Windows system administration.
- Have taken our [VMware Initiation](#) course

Further information

- Discover VMware vSphere High Availability with our [VMware Advanced](#) course

Our VMware 7 training program: Intermediate

Data center consolidation and business continuity

- What is data center consolidation?
- Server virtualization
- VM-Aware storage
 - What's new?
 - Overview of vSphere virtual volume solutions
 - Start with virtual volumes
 - FAQ on virtual volumes
- API- and policy-based storage capacities
- Live workload migration
- Protecting virtual machines and data
- Ensuring system availability
- Sharing data center resources
- Improve efficiency and simplify management

Improved application performance and a seamless hybrid cloud experience

- Improved application performance and availability
- Seamless hybrid cloud experience
- Centralized network management
- Load balancing
- Live workload migration
- Eliminate downtime for critical applications
- Prioritize virtual machine resources
- Rapid deployment and supply
- Accelerated graphics for virtual machines

Proactively protect workloads

- Performance of turbocharging applications

- Running workloads in containers

Big virtualized data

- Simplify big data management
- Server virtualization

Unix to virtual Linux

- Evolving with Virtual Linux
- Ensuring system availability

Secure applications and infrastructure

- Complete integrated safety
- Secure applications
- Secure infrastructure
- Secure data
- Secure access

Advantage

- Run containerized applications in addition to existing workloads
- Combine portability with security, visibility and management
- Leverage your existing infrastructure and grow with ease
- Provide developers with a Docker-compatible interface

vSphere Remote and Branch Offices

- Manage your remote offices and branches
- Secure data with encryption

Companies concerned

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

Teaching methods

Practical course: 60% Practical, 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.

Sanction

A certificate will be issued to each trainee who completes the course.