

Data of course

Course Number: MOC-6423

Title course: Implementing and Managing Windows Server 2008 Clustering

Duration: 15 hours

Description

This 15 hours instructor-led course introduces Windows Server 2008 clustering and provides students with the knowledge and skills to implement, maintain, and troubleshoot clusters.

This course is intended for IT professional technical specialists responsible for implementing and maintaining high availability solutions utilizing clustering technologies

Prerequisites

Before attending this course, students must have:

- Experience with network load balancing
- Basic knowledge of clustering theory
- Experience in an enterprise environment managing applications and network topologies
- Basic troubleshooting skills

Course Objectives

After completing this course, students will be able to implement, maintain, and troubleshoot clusters in their enterprise environment.

Contents

Module 1: Introduction to Clusters

- Overview of Clusters
- Benefits of Using Clusters
- Overview of the Windows Server 2008 High Availability Solutions

Module 2: Introduction to Microsoft Windows Server 2008 Failover Clusters

- Overview of Windows Server 2008 Failover Clusters
- Key Windows Server 2008 Failover Cluster Features
- Overview of the Windows Server 2008 Quorum Models

Module 3: Preparing to Install a Failover Cluster

- Overview of Requirements for Installing a Failover Cluster
- Planning the Failover Cluster Implementation
- Installing the Failover Cluster Feature and Validating the Cluster Configuration
- Installing the Failover Cluster on Windows Server 2008 Server Core

Module 4: Overview of Failover Cluster Storage Requirements

- Overview of Storage Technologies
- Introduction to Storage Area Networks
- Planning a Storage Solution for Failover Clusters
- Configuring an iSCSI Storage Connection

Module 5: Configuring a Failover Cluster

- Creating a New Failover Cluster
- Managing a Failover Cluster
- Verifying Failover Functionality

Module 6: Configuring Cluster Resources and Server Roles

- Configuring Cluster Resources
- Implementing Failover Clusters for Server Roles Using Failover Cluster Management
- Clustering Server Roles Using Windows Server Core

Module 7: Maintaining Microsoft Failover Clusters

- Monitoring Failover Clusters
- Backing Up and Restoring Failover Clusters
- Troubleshooting Failover Clusters

Module 8: Implementing Geographically Dispersed Clusters

- Overview of Geographically Dispersed Clusters
- Implementing Geographically Dispersed Clusters Using Windows Server 2008
- After completing this module, students will be able to:
- Define the use and challenges of geographically dispersed clusters.
- Describe how to implement geographically dispersed clusters using Windows Server 2008.

Module 9: Implementing Network Load Balanced Clusters

- Overview of Network Load Balancing
- Configuring a Network Load Balanced Cluster
- Maintaining a Network Load Balanced Cluster