Implementing and Managing Window Servers 2008 Clustering

Course Summary

Description

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

Objectives

At the end of this course, students will be able to implement, maintain, and troubleshoot clusters in their enterprise environment.

Topics

- Introduction to Clusters
- Introduction to Microsoft Windows Server 2008 Failover Clusters
- Preparing to Install a Failover Cluster
- Overview of Failover Cluster Storage Requirements
- Configuring a Failover Cluster
- Configuring Cluster Resources and Server Roles
- Maintaining Microsoft Failover Clusters
- Implementing Geographically Dispersed Clusters
- Implementing Network Load Balanced Clusters

Audience

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

Prerequisites

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

Duration

Three Days

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... to Your Success!"

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Course Outline

I. Introduction to Clusters
- A. Overview of Clusters
- B. Benefits of Using Clusters
- C. Overview of the Windows Server 2008 High Availability Solutions

II. Introduction to Microsoft Windows Server 2008 Failover Clusters
- A. Overview of Windows Server 2008 Failover Clusters
- B. Key Windows Server 2008 Failover Cluster Features
- C. Overview of the Windows Server 2008 Quorum Models

III. Preparing to Install a Failover Cluster
- A. Overview of Requirements for Installing a Failover Cluster
- B. Planning the Failover Cluster Implementation
- C. Installing the Failover Cluster Feature and Validating the Cluster Configuration
- D. Installing the Failover Cluster on Windows Server 2008 Server Core

IV. Overview of Failover Cluster Storage Requirements
- A. Overview of Storage Technologies
- B. Introduction to Storage Area Networks
- C. Planning a Storage Solution for Failover Clusters
- D. Configuring an iSCSI Storage Connection

V. Configuring a Failover Cluster
- A. Creating a New Failover Cluster
- B. Managing a Failover Cluster
- C. Verifying Failover Functionality

VI. Configuring Cluster Resources and Server Roles
- A. Configuring Cluster Resources
- B. Implementing Failover Clusters for Server Roles Using Failover Cluster Management
- C. Clustering Server Roles Using Windows Server Core

VII. Maintaining Microsoft Failover Clusters
- A. Monitoring Failover Clusters
- B. Backing Up and Restoring Failover Clusters
- C. Troubleshooting Failover Clusters

VIII. Implementing Geographically Dispersed Clusters
- A. Overview of Geographically Dispersed Clusters
- B. Implementing Geographically Dispersed Clusters Using Windows Server 2008

IX. Implementing Network Load Balanced Clusters
- A. Overview of Network Load Balancing
- B. Configuring a Network Load Balanced Cluster
- C. Maintaining a Network Load Balanced Cluster

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