

Windows Server 2012: Failover Clustering



WorkshopPLUS

This workshop will provide participants with the necessary knowledge to begin deploying and managing Failover Clustering technology using Windows Server 2012 in their environment.

Target Audience:

To ensure the high-quality knowledge-transfer expected by attendees of this three-day workshop, class size is limited to a maximum of 16 students who meet the following criteria:

3-5 years minimum experience administering Microsoft Windows Server based operating systems.

Overview

Windows Server 2012 Failover Clustering is a three-day workshop that will give participants everything they need to successfully design, deploy and manage Windows Server 2012 Failover Clusters. Numerous hands-on labs cover all aspects of the Windows Server 2012 Failover Clustering platform, including architecture, troubleshooting and disaster recovery.

Key Features and Benefits

Each workshop module is designed to provide participants with in-depth knowledge of all relevant Failover Cluster topics, such as the Quorum model, cluster storage and Cluster Aware Updating.

Technical Highlights

After completing this course, attendees will be able to:

- Identify key features of Failover Clustering.
- Review Best Practices.
- Understand efficient methods of deploying and managing Failover Clustering environments.

Syllabus

Hardware Requirements:

To participate in the course, students need to have access to a workstation that meets or exceeds the minimum hardware and software requirements below.

If you are attending an Open Enrollment, the hardware will be provided for you. Contact your TAM if the necessary hardware needs to be provided.

If you are coordinating a closed delivery (dedicated delivery for your organization) and require hardware or are interested in having the virtual environment hosted in the cloud, then please contact your TAM for more information.

Cloud Hosted labs only require internet connectivity. Hardware requirements are: Windows 8 with Hyper-V enabled, 16GB of RAM and 100 GB of free disk space.

This workshop runs for three full days. Students should anticipate consistent start and end times for each day. Early departure on any day is not recommended.

Module 1: Introduction to Failover Clustering: The first module covers topics in Failover Clustering history, its installation and changes from previous versions.

Module 2: Core components for Failover Clustering: Topics include a discussion of the available Quorum models, changes to networking and storage and the various policies that govern when roles fail over to another node.

Module 3: Cluster Resource Types: Topics include Cluster Aware Updating, the Hyper-V replica broker and the Scale-Out File Server, as well as a discussion of other built-in resource types.

Module 4: Administration and Migration: This module discusses different ways of managing a failover cluster using Windows PowerShell, including removing the Graphical User Interface from nodes. It also covers the available migration paths from older platforms to Windows Server 2012 failover clusters.

Module 5: Logging and Recovery Tools: Participants will learn how to generate and review the Failover Cluster Log and recover from various disaster scenarios using the built-in backup and recovery tools.