

# Implementing an Advanced Server Infrastructure (20414)

**Duration: 5 days**

## Who should attend?

This course is intended for Information Technology (IT) professionals who are responsible for planning, designing, and deploying Windows Server 2012 enterprise infrastructures including Active Directory and network services. Candidates would typically have experience with previous versions of Windows Server and have an MCSA: Windows Server 2012 certification or equivalent skills. This course will help you prepare for Exam 70-414: Implementing an Advanced Enterprise Server Infrastructure as part of the requirements for MCSE: Server Infrastructure certification.

## Certifications

This course is part of the following Certifications:

1. [MCSE Core Infrastructure](#) (MCSE)
2. [MCSE Cloud Platform and Infrastructure](#) (MCSE)

## Course Objectives

In this course, students will learn how to plan and implement some of the more advanced features available in Windows Server 2012. Course 20413B is a prerequisite course for Course 20414B. After completing this course, students will be able to:

1. Describe the considerations for managing an enterprise data center.
2. Plan and implement a server virtualization strategy using Microsoft System Center 2012.
3. Plan and Implement networks and storage for virtualization.
4. Plan and deploy virtual machines.
5. Manage a virtual machine deployment.
6. Plan and implement a server monitoring strategy.
7. Plan and implement high availability for file services and applications.
8. Plan and implement a high availability infrastructure by using failover clustering.
9. Plan and implement a server-updates infrastructure.
10. Plan and implement a business continuity strategy.
11. Plan and implement a public key infrastructure (PKI).
12. Plan and implement an Identity Federation Infrastructure.
13. Plan and implement an Information Rights Management (IRM) infrastructure.

## Follow On Courses

1. [Monitoring and Operating a Private Cloud](#) (20246)
2. [Configuring and Deploying a Private Cloud](#) (20247)

## Course Content

Module 1: Overview of Management in an Enterprise Data Center  
Module 2: Planning and Implementing a Server Virtualization Strategy  
Module 3: Planning and Implementing Networks and Storage for Virtualization  
Module 4: Planning and Deploying Virtual Machines  
Module 5: Planning and Implementing a Virtualization Administration Solution  
Module 6: Planning and Implementing a Server Monitoring Strategy  
Module 7: Planning and Implementing High Availability for File Services and Applications  
Module 8: Planning and Implementing a High Availability Infrastructure Using Failover Clustering  
Module 9: Planning and Implementing Server Update Infrastructure  
Module 10: Planning and Implementing a Business Continuity Strategy  
Module 11: Planning and Implementing an Public Key Infrastructure  
Module 12: Planning and Implementing an Identity Federation Infrastructure  
Module 13: Planning and Implementing an Information Rights Management Infrastructure