

20533BC	Implementing Microsoft Azure Infrastructure Solutions	5 DAYS	SATV : YES
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## Course Description

Get hands-on instruction and practice planning and implementing Microsoft Azure features and tools. You will learn to implement and manage virtual networking within Azure and to connect to on-premises environments, plan and create Azure virtual machines as well as implement and manage backup and storage solutions. You will learn to plan and implement data services, deploy and configure websites and manage cloud services. You will also learn to publish content through CDNs and publish videos by using Media Services. You will create and manage Azure AD directories and configure application integration with Azure AD and integrate on-premises Windows AD with Azure AD. You will also learn about Azure Automation. This course is intended for Windows Server administrators who are looking to evaluate and migrate on-premises services to the cloud as well as cloud administrators who support medium to large enterprises and are responsible for monitoring, managing and migrating cloud resources.

## Course Outline

### Module 1: Introduction to Azure

- Cloud Technology Overview
- Microsoft Azure
- Azure Portals
- Managing Azure with Windows PowerShell

### Module 2: Implement and Manage Virtual Networks

- Planning Virtual Networks
- Implementing and Managing Virtual Networks
- Configuring Connections to Virtual Networks

### Module 3: Implement Virtual Machines

- Introduction to IaaS Cloud Services
- Planning Virtual Machine Workloads
- Creating Virtual Machines

### Module 4: Managing Virtual Machines

- Configuring Virtual Machines
- Managing and Configuring Virtual Machine Disks
- Managing and Monitoring Virtual Machines

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## **Module 5: Implementing Websites**

- Planning for Website Deployment
- Deploying Websites
- Configuring Websites
- Monitoring Websites
- Traffic Manager

## **Module 6: Planning and Implementing Storage**

- Planning Storage
- Implementing and Managing Storage
- Backup and Monitoring Storage

## **Module 7: Planning and Implementing Data Services**

- Data Services in Microsoft Azure
- Implementing Azure SQL Database
- Managing Azure SQL Database Security
- Monitoring Azure SQL Database
- Managing Azure SQL Database Business Continuity

## **Module 8: Implementing PaaS Cloud Services and Mobile Services**

- Planning and Deploying PaaS Cloud Services
- Configuring Cloud Services
- Implementing Mobile Services
- Monitoring and Diagnostics

## **Module 9: Implementing Content Delivery Networks and Media Services**

- Implementing Azure Content Delivery Networks
- Publishing Content with Azure Media Services

## **Module 10: Implement Azure AD**

- Creating and Managing Azure Directories
- Configuring Application Integration with Azure Active Directory
- Overview of Azure Active Directory Premium

## **Module 11: Managing Active Directory in a Hybrid Environment**

- Extending On-Premises Active Directory into Azure
- Directory Synchronization
- Implementing Federation

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## Module 12: Implementing Automation

- Overview of Automation Components
- Implementing PowerShell Workflows
- Managing Automation

## Module 13: Microsoft Azure Solutions

- Tailspin Toys Business Systems Scenario
- Software as a Service Scenario

At the end of this module, students will be able to:

- Plan a migration project and architect an Azure solution that addresses a typical medium-sized manufacturing company's business needs using cloud technologies.
- Plan a new software as a service (SaaS) offering, built from components of Microsoft Azure.