



Microsoft Specialist: Implementing Microsoft Azure Infrastructure Solutions Boot Camp

Code: 4479

5 days

Course Overview

This immersive and extended-hour boot camp, led by Azure experts, will provide you with the knowledge and skills required for understanding the architecture, services, tools, and portals of Microsoft Azure. You will then capitalize on those skills and accelerate your Azure experience at the end of each day.

The evening hours of this boot camp are designed to reinforce what was learned during the day through targeted real-world scenarios, guided group exercises, and competency-based challenges. These activities will help you understand how to best address this ever changing cloud service and how to immediately apply Azure best practices to your enterprise environment.

Additionally, this boot camp will assist in your Microsoft Specialist 70-533 exam preparation, as the scenarios address specific exam objectives. You will also receive the exam voucher required for certification, along with one free retake voucher if needed. It also includes access to our Microsoft Boot Camp Exclusives, providing indispensable certification exam prep.

Who Needs To Attend

- IT professionals
- Server administrators
- Windows Server administrators
- Developers

Course Details

Topics include

- Microsoft Certified Trainers
- Microsoft Official Course Material
- Exam Voucher(s) Included with Class
- Exam Pass Guarantee: Unlimited Retakes Until You Pass the Exam
- Work in virtual labs that provide real-world experience
- For Virtual Classes Learn at your own pace from your home, office, or any place that has an Internet connection
- Repeat part or all of the class at no additional cost, often for up to a year

- Work in virtual labs that provide real-world experience
- Certification of Completion at the End of Class
- Water, Soda, and Snacks Provided in Class
- Time intensive accelerated training for teams with budget and time
- Access to practice labs after the class

Topics Include

1. Azure architecture components including infrastructure, tools, and portals
2. Implement and manage virtual networking within Azure and connect to on-premise environments
3. Plan and create Azure virtual machines
4. Optimize availability and reliability for Azure virtual machines
5. Implement, manage, back up, and monitor storage solutions
6. Plan and implement data services based on Structured Query Language (SQL) databases to support applications
7. Deploy and configure websites
8. Publish content through Azure Content Delivery Networks
9. Create and manage Azure AD Directories
10. Integrate on-premises Windows AD with Azure AD
11. Automate operations in Azure management by using PowerShell runbooks

Course Outline

1. Introduction to Azure

- Cloud Technology Overview
- Azure Infrastructure Review
- Azure Portals
- Managing Azure Using Windows PowerShell

2. Implement and Manage Azure Networks

- Plan Virtual Networks
- Implement and Manage Azure Virtual Networks
- Configure Connections to Azure Virtual Networks

3. Implement Virtual Machines

- Introduction to IaaS Cloud Services
- Plan Virtual Machine Workloads

4. Author Azure Resource Manager Templates

- Manage Virtual Machines
- Configure Virtual Machines
- Manage and Configure Virtual Machine Disks
- Manage and Monitor Azure Virtual Machines

5. Implement Azure App Services

- Plan for App Deployment in App Service
- Deploy, Configure, and Monitor Web Apps
- Traffic Manager

6. Plan and Implement Storage, Backup, and Recovery Services

- Plan, Implement, and Manage Storage
- Implement Azure Content Delivery Networks
- Implementing Azure Backup and Azure Site Recovery

7. Plan and Implement Azure SQL Database

- Deploy Azure SQL Database
- Monitor Azure SQL Database
- Manage Azure SQL Database Security and Azure SQL Database Business Continuity

8. Implement PaaS Cloud Services

- Plan and Deploy PaaS Cloud Services
- Configure Remote Desktop Protocol (RDP)
- Monitoring Cloud Services

9. Implement Azure Active Directory (AD)

- Create and Manage Azure AD Directories
- Configure Application Integration with Azure AD
- Overview of Azure AD Premium

10. Manage AD in the Hybrid Environment

- Extend On-Premises Active Directory Deployments into Azure
- Directory Synchronization
- Implement Federation

11. Implement Azure-Based Management and Automation

- Implement Microsoft Operations Management Suite (OMS)
- Automation Components
- PowerShell Workflows
- Managing Automation

Lab 1: Azure Introduction

12. Navigate the Portals

- Install and Use Windows Azure PowerShell

Lab 2: Use a Deployment Template to Implement Azure Virtual Networks

13. Create and the Virtual Network by using PowerShell

- Configure Virtual Networks

Lab 3: Configure Connectivity between the IaaS v1 and IaaS Version 2 (v2)

14. Use a PowerShell Script to Connect IaaS v1 VNet and IaaS v2 VNet

- Configure a Point-To-Site VPN
- Use a PowerShell Script to Connect IaaS v1 VNet and IaaS v2 VNet

Lab 4: Create and Deploy IaaS v2 Virtual Machines in Azure

15. Create Virtual Machines by Using the Azure Portal and Azure PowerShell
 - Use Azure PowerShell and an Azure Resource Manager Template to Deploy Virtual Machines**Lab 5: Manage Azure Virtual Machines**
16. Configure Virtual Machine Storage
 - Implement Desired State Configuration (DSC)
 - Implement Storage Space-Based Volumes**Lab 6: Implement Websites**
17. Create, Deploy, and Manage a Web Apps
 - Implement Traffic Manager**Lab 7: Plan and Implement Storage**
18. Create and Configure Storage
 - Azure File Storage
 - Protect Data with Azure Backup**Lab 8: Plan and Implement Azure SQL Database**
19. Create, Secure, and Monitor an Azure SQL Database
 - Migrate a Database to Azure SQL Database
 - Restore a Database**Lab 9: Implement PaaS Cloud Services**
20. Deploy a Cloud Service
 - Configure Deployment Slots and Remote Desktop Protocol
 - Monitor Cloud Services**Lab 10: Implement Azure Active Directory**
21. Administer AD
 - Configure Single Sign-On
 - Configure Multi-Factor Authentication**Lab 11: Implement and Manage an Azure AD Synchronization**
22. Configure Directory Synchronization
 - Synchronize Directories**Lab 12: Implement Automation**
23. Configure Automation Accounts
 - Create Runbooks

Prerequisites

Experience with or knowledge of:

- Network configuration including TCP/IP, DNS, virtual private networks (VPNs), firewalls, and encryption technologies
- Creating, configuring, deploying, and monitoring a website on IIS
- Active Directory concepts including domains, forests, domain controllers, replication, Kerberos, and LDAP
- Database concepts including tables, queries, SQL, database replication, and database schemas
- Resilience and disaster recovery including backup and restoration, operations, and clustering
- Windows PowerShell