
Integrating On-Premises Core Infrastructure with Microsoft Azure

Duration: 3 Days **Course Code: M10992** **Version: B**

Overview:

This 3-day instructor-led course covers a range of components, including Azure Compute, Azure Storage, and network services that customers can benefit from when deploying hybrid solutions. In this context, the term hybrid means integrating infrastructure technologies that customers host in on-premises datacenters with Azure IaaS and PaaS services. This course offers an overview of these services, providing the knowledge necessary to design hybrid solutions properly. It also includes a number of demonstrations and labs that enable students to develop hands-on skills that are necessary when implementing such solutions.

Target Audience:

More specifically, the intended audience includes: IT professionals who have used on-premises virtualization technologies, including both Hyper-V and VMware platforms, but who want to deploy, configure, and administer services and virtual machines in Azure. IT professionals who have used Microsoft System Center to manage and orchestrate an on-premises server infrastructure. Windows and Linux administrators who are looking to evaluate and migrate on-premises workloads and services to the cloud. IT professionals who need to implement network connectivity between on-premises environments and services that Azure or Microsoft Office 365 hosts. IT professionals who want to use Azure to increase the resiliency and agility of their on-premises environments. DevOps personnel who are considering deploying hybrid solutions that consist of both cloud-based and on-premises components. IT professionals and DevOps personnel who are experienced in other non-Microsoft cloud technologies, who meet the course prerequisites, and how are looking to cross-train on Azure.

Objectives:

- Module 1: Introduction to Microsoft Azure.
 - Module 2: Integrating with Azure Compute services
 - Module 3: Integrating with Microsoft Azure virtual networks
 - Module 4: Integrating with Azure Storage and data services
 - Module 5: Designing and implementing Azure Site Recovery solutions
 - Module 6: Designing and implementing cross-premises applications
 - Module 7: Integrating operations and application monitoring and management
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Prerequisites:

- An understanding of on-premises virtualization technologies, including virtual machines, virtual networking, and virtual hard disks.
 - An understanding of network configuration, including TCP/IP, Domain Name System (DNS), VPNs, firewalls, and encryption technologies.
 - An understanding of web applications, including creating, configuring, monitoring, and deploying web applications on Internet Information Services (IIS).
 - An understanding of Active Directory concepts, including domains, forests, domain controllers, replication, the Kerberos protocol, and Lightweight Directory Access Protocol (LDAP).
 - Knowledge of Windows Server 2012 and Windows Server 2016 fundamentals.
 - Knowledge of Windows PowerShell command-line interface basics.
 - Knowledge of cloud computing basics.
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Content:

This course is intended for IT professionals and development operations (DevOps) professionals who are well versed in on-premises technologies and who have some knowledge of cloud technologies but want to learn more about integrating their on-premises environments with Azure. These professionals should have at least three years of experience working in their respective fields—typically, in the areas of on-premises system administration or network administration, in addition to DevOps support. These IT professionals have broadly applicable administration and operational skills, and they generally work for both enterprise-level organizations and small and medium business environments.

Additional Information:

To help you prepare for this exam, Microsoft recommends that you have hands-on experience with the product and that you use the specified training resources.

These training resources do not necessarily cover all topics listed in the "Skills measured" section.

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Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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