

# Microsoft Azure: Infrastructure as a Service

## WorkshopPLUS

**Duration:** 1 - 3 Days [Remote / Onsite]

**Difficulty Level:** 200 - Intermediate

### Description

This offering provides architects, IT professionals, and developers with the knowledge and experience needed to make the initial architectural and development decisions about their use of Microsoft Azure IaaS. It consists of two main parts: classroom teaching and hands-on experience introducing Microsoft Azure concepts and tools.

The course can also be customized to focus on the delivery of a particular application with the flexibility to augment the course with a consulting engagement involving architectural assistance or proof of concept development.

### Objectives

- Understand Compute, Storage, and Networking in Azure IaaS
- Get familiar with important Azure PowerShell Management concepts and techniques
- Turn industry challenges into your opportunity by differentiating yourself, and delighting your customers with Microsoft Azure and Infrastructure as a Service leveraged application platforms

### Outcomes

- Relate the purpose of Microsoft Azure IaaS to your application requirements
- Learn about Azure Services to develop and deploy existing application platforms to Microsoft Azure

### Methodology

**Learn by example** Learn by presentations, demonstrations and group discussions.

**Hands-on** Prepare and use an environment for a hands-on experience

### Requirements

#### Participants

- Architects, IT pros and developers

#### Skill Requirements

- General familiarity with cloud computing concepts
- Understanding of multi-tiered application architectures (for example: front end, middleware, and back-end software)
- General understanding of networking concepts (for example: IPv4, DNS, gateways, VPN)

#### Delivery Requirements

- Computer with internet access and at least 1 Mbps bandwidth per participant
- Microsoft/Windows Live ID to connect to the virtual environment

## Delivery Outline

The scope of this engagement will be agreed based on your specific needs. Final agenda will be determined in the scoping call.

3 Day Delivery	1 Day Delivery
<p><b>Day 1 (Mandatory)</b></p> <ul style="list-style-type: none"> <li>Microsoft Azure IaaS Overview</li> <li>Microsoft Azure Resource Manager (ARM) with lab</li> <li>Microsoft Azure Storage with lab</li> </ul> <p><b>Day 2 (Mandatory)</b></p> <ul style="list-style-type: none"> <li>Microsoft Azure Virtual Machines with lab</li> <li>Microsoft Azure Networking with lab</li> </ul> <p><b>Day 3 (Choose any two)</b></p> <ul style="list-style-type: none"> <li>Microsoft Azure Identity with lab</li> <li>Microsoft Azure Management with lab</li> <li>Microsoft Azure Automation with lab</li> <li>Microsoft Azure Backup with lab</li> </ul>	<p><b>Day 1 (Choose one)</b></p> <ul style="list-style-type: none"> <li>Microsoft Azure IaaS Overview (no lab)</li> <li>Microsoft Azure Resource Manager (ARM) with lab</li> <li>Microsoft Azure Storage with lab</li> <li>Microsoft Azure Virtual Machines with lab</li> <li>Microsoft Azure Networking with lab</li> <li>Microsoft Azure Identity with lab</li> <li>Microsoft Azure Management with lab</li> <li>Microsoft Azure Automation with lab</li> <li>Microsoft Azure Backup with lab</li> </ul>

### 3-Day Details

Day 1	Microsoft Azure IaaS Overview	<ul style="list-style-type: none"> <li>Introduction to cloud computing, Cloud services and scenarios, Microsoft Azure Management Portal overview</li> </ul>
Day 1	Microsoft Azure Resource Manager (ARM)	<ul style="list-style-type: none"> <li>Describe the usage of ARM, Details of ARM JSON code structure, Discussion about Access Control and Resource Locks</li> </ul>
Day 1	Microsoft Azure Storage	<ul style="list-style-type: none"> <li>Storage architecture &amp; data services, discussion around the different types of storage, storage replication and security</li> </ul>
Day 2	Microsoft Azure Virtual Machines	<ul style="list-style-type: none"> <li>Support for key server applications, provisioning patterns and approaches, high availability features and VM sizes</li> </ul>
Day 2	Microsoft Azure Networking	<ul style="list-style-type: none"> <li>Virtual Machines and DNS, protocols and endpoints, cross-premise connectivity, virtual networking services</li> </ul>
Day 3	<b>Optional:</b> Microsoft Azure Identity	<ul style="list-style-type: none"> <li>Discussion about Microsoft Azure Active Directory, Azure B2B and B2C, Microsoft Azure Multi-Factor Authentication, and extending on-premises Active Directory to Azure using IaaS</li> </ul>
Day 3	<b>Optional:</b> Microsoft Azure Management	<ul style="list-style-type: none"> <li>Microsoft Azure Portal management, PowerShell Cmdlets for Microsoft Azure, Management of VM's, Storage and Networking using PowerShell</li> </ul>
Day 3	<b>Optional:</b> Microsoft Azure Automation	<ul style="list-style-type: none"> <li>Discussion about Automation Runbooks, Automation Desired State Configuration</li> </ul>
Day 3	<b>Optional:</b> Microsoft Azure Backup	<ul style="list-style-type: none"> <li>Discussion about Azure Backup and Restore, Azure snapshot backup, Monitoring and Auditing backup</li> </ul>

**For more information:** Please contact your Microsoft Representative for more details.