Microsoft Azure Compute: Infrastructure as a Service (IaaS) – Overview

Overview

Microsoft Azure is an internet-scale, high-availability cloud fabric operating on globally-distributed Microsoft data centers. Microsoft Azure and related tools support the development and deployment of applications into a hosted environment that extends the on-premises data center. The Microsoft Azure IaaS platform can be used advantageously to deploy existing and new application platforms mainly composed of the following:

- Operating systems
- Applications
- Middleware
- Database servers
- Third-party components and frameworks
- Internal and external networking configurations required for communications

This four-hour Workshop provides architects, IT pros, and developers with the knowledge and experience needed to make the initial architectural and development decisions about their use of Microsoft Azure Compute (IaaS). It consists of two parts: classroom teaching and short hands-on experience introducing Microsoft Azure concepts and tools.

Key Features and Benefits

The course provides classroom presentation and short hands-on lab materials, which will help you quickly acquire knowledge and skills needed to design and develop Microsoft Azure applications.

Technical Highlights

After completing this workshop, you have an introduction to:

- Relate the purpose of Windows Azure IaaS to your application requirements.
- Design applications based on Windows Azure.
- Develop and deploy existing application platforms to Windows Azure.
Prerequisites:

We expect the participants to have:
• General familiarity with cloud computing.
• General understanding of networking concepts.
• Access to Azure management environment and account.

Syllabus

This Level 200 Workshop runs for four hours.

Introduction
• Introduction to cloud computing
• Cloud services and scenarios

Microsoft Azure Websites
• Possibilities how to create Websites in Microsoft Azure

Microsoft Azure Cloud Services
• Concept of Cloud Services
• How to build massively scalable applications and services
• Swap deployments

Microsoft Azure Virtual Machines (VMs)
• Support for key server applications
• Portability of VMs
• Virtual Machine sizes
• Provisioning patterns and approaches

Microsoft Azure Storage and Disks
• Storage management
• Disk management

Microsoft Azure VM Availability
• High-availability features

Microsoft Azure Virtual Networks
• Domain Name System (DNS) Scenarios
• Microsoft Azure Connectivity Options
• Virtual networking (VNet and VPNs)

Microsoft Azure Implementation Guidelines
• Best Practices and design considerations for Microsoft Azure Compute (IaaS)