Microsoft Azure Foundations
Course ID: MSAZ2017

Course Time: 2 Days

Course Description
This two-day workshop covers the foundational elements of Microsoft Azure. An interactive workshop with real-time demos, it is designed to serve the needs of engineers who need to understand how Azure can be used to solve real-world problems using Cloud Architecture best practices.

Learning Objectives
After this course you should be able to:
+ Describe the foundational elements of Azure
+ Understand core architectural practices of Azure IaaS and PaaS services
+ Articulate the benefits of Azure and its services to real-world use cases

Who Should Attend
+ Data Center Architects
+ Cloud Solution Architects
+ Cloud Administrators
+ System Administrators
+ Security Team Personnel
+ Executive Sponsors

Prerequisites
+ Understanding of Server System Design and Architecture
+ Familiarity with Server Virtualization
+ Understanding Application Architecture
+ Familiarity with Data Center Networking Technologies and Storage Concepts
+ Familiarity with Cloud concepts
Course Content

Module 1: Cloud Architecture Design Principles and Best Practices
+ Business Challenges
+ Anatomy of a Cloud Solution
+ Service Model Use Cases – IaaS, PaaS, SaaS

Module 2: Azure Foundation
+ Components of Azure
+ Regions + Availability Zones
+ Classic vs. ARM Deployment Models
+ Subscriptions
+ Support Structures
+ Tagging Strategies

Module 3: Network
+ Getting to the Cloud with INET VPNs and ExpressRoute
+ Intra Cloud-VNET Fundamentals
+ VNET Peering and VPN
+ Securing VNETs with NSG and NVAs
+ Load Balancing Options

Module 4: Compute
+ Resource Groups and Resources
+ Azure VMs
+ App Services + Containers
+ Scale Sets and Availability Sets

Module 5: Storage
+ Choosing the Right Storage for the Application
+ Storage Accounts
+ VM Storage, Blob, Table, Queue, and File

Module 6: Security
+ Cloud Shared Responsibility Model
+ Compliance Concerns
+ Encryption
+ Security Center

Module 7: Identity
+ Directory Services in Azure
+ Azure AD Introduction
+ Federation
+ MFA

Module 8: Azure Costing
+ How to Manage and Monitor Cost?
+ Azure Cost Management Services
+ Understanding Azure Service Pricing

Module 9: Business Continuity
+ Prepare for Failure
+ Azure Backup Options
+ Azure Site Recovery (ASR)
+ Be Prepared and Test - Ongoing Failure Injection

Module 10: Automation
+ The Need and Benefits of Automation
+ Azure CLI and PowerShell
+ IaC with ARM Templates and Terraform

Module 11: Migration
+ Greenfield, Lift and Shift and Refactor
+ Migration Planning
+ Carrying out the Migration

Module 12: Database Options
+ Advantages of DBaaS vs DIY on Azure VMs
+ The Advantages of Azure SQL
+ Sizing and Scaling your DBs
+ HA and Global Redundancy

Module 13: Day 2 Ops-Monitoring and Alerting
+ Native Azure Tools and 3rd Party Integrations
+ Azure Monitor Suite
+ Log Analytics, Network Watcher, Application Insights

Module 14: Azure Stack
+ Bring Azure to your Private Datacenter
+ Primary Components
+ Use Cases

To register for an ePlus cloud training course, contact us today.

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