

AZP: Microsoft Azure Infrastructure for IT Professional

Objective: This course provides knowledge in Microsoft Azure, Microsoft's cloud computing platform. The course focuses on infrastructure implementation e.g. Azure Virtual Network, Azure virtual machine, Azure web sites, including Azure Active Directory. The course also provides knowledge and concepts in extending on-premises infrastructure to Microsoft Azure. The course also provides lab and demonstration for audience to complete the scenario in real world environment.

Who Should Attend: This course is intended for:

- Information Technology (IT) professionals who have some knowledge of cloud technologies and want to learn more about Microsoft Azure.
- IT professionals who want to deploy, configure, and administer services and virtual machines in Microsoft Azure.
- Windows Server administrators who are looking to evaluate and migrate on-premises Active Directory roles and services to the cloud.

Course Benefit: After completing this course, participants will be able to:

- Describe Azure architecture components including infrastructure, tools, and portals.
- Implement and manage virtual networking within Azure and to connect to on-premises environments.
- Plan and create Azure virtual machines.
- Configure, manage, and monitor Azure virtual machines to optimize availability and reliability.
- Implement, manage, backup and monitor storage solutions.
- Plan and implement data services based on SQL Database to support applications.
- Deploy and configure websites.
- Deploy, configure, monitor, and diagnose cloud services.
- Create and manage Azure AD directories, and configure application integration with Azure AD.
- Integrate on-premises Windows AD with Azure AD.

Duration: 5 days (30 hours), 09:00 – 16:00

Training Date: See Training Schedule on www.knowledgetraining.com

Fee: 19,900 Baht (VAT 7% = 1,393 Baht, Total = 21,293 Baht)
Early Bird 18,000 Baht - to be paid 2 weeks prior to training (VAT 7% = 1,260 Baht, Total = 19,260 Baht)

Microsoft Azure Infrastructure for IT Professional v1

Venue: Jasmine City Hotel, Soi Sukhumvit 23, Asoke, Bangkok

Method: Workshops

Language: Thai

Instructors: Thanyapon Sananakin MVP, MCITP, MCT, CCNA
(See trainer profile on www.knowledgetraining.com)

Registration: Fill in IT Registration Form and send to info@knowledgetraining.com

Preparation for Training by Audience:

- A laptop with internet access
- A Laptop can run at least 1 Virtual Machine (Hyper-V or VMWare), Windows Server 2012 R2 guest OS
- A Microsoft account e.g. Hotmail.com, live.com for Azure subscription.
- A valid credit card for Azure Subscription (No credit card charge, only for verification)
- A Telephone number for Azure Subscription

Course Outline:

Module 1: Introduction to Azure

This module provides the students a high level introduction to Azure.

Lessons

- Cloud Technology Overview
- Microsoft Azure
- Azure Portals
- Managing Azure with Windows PowerShell

Lab: Introduction to Azure

- Subscribing to Azure Trial with 200 USD within 1 month
- Using Azure Portals
- Using Azure PowerShell

Module 2: Implement and Manage Virtual Networks

In this module students will learn how to implement Virtual Networks, why they are important and how to manage them post-implementation.

Lessons

- Planning Virtual Networks
- Implementing and Managing Virtual Networks
- Configuring Connections to Virtual Networks

Lab: Creating Virtual Networks

- Creating the Virtual Network
- Validating Virtual Network Connectivity

Module 3: Implement Virtual Machines

In this module, students will see how Microsoft Azure VMs can host services for their users and customers and how to create, install, and configure VMs with different operating systems and software platforms.

Lessons

- Introduction to IaaS Cloud Services
- Planning Virtual Machine Workloads
- Creating Virtual Machines

Lab : Implementing Virtual Machines

- Deploying Windows Virtual Machines
- Deploying Linux Virtual Machines

Module 4: Managing Virtual Machines

In this module the student will learn how to properly configure Virtual Machines and Virtual Machine Disks as well as managing and monitoring the Virtual Machine environments ensuring security, availability and scalability.

Lessons

- Configuring Virtual Machines
- Managing and Configuring Virtual Machine Disks
- Managing and Monitoring Virtual Machines

Lab : Managing Virtual Machines

- Creating Endpoint
- Managing IP Address for Azure Virtual Machine
- Using the Cross Platform Command-Line Interface

Module 5: Implementing Websites

In this module students will learn how to plan for website deployment, covering different levels of website and differing deployment models. They will then learn how to deploy a website, how to configure the site, how to monitor the performance of the site, what Webjobs are and how to use them and finally what Traffic Manager is and how it is used.

Lessons

- Planning for Website Deployment
- Deploying Websites
- Configuring Websites
- Monitoring Websites
- Traffic Manager

Lab: Implementing Websites

- Creating Websites
- Deploying a Website
- Managing Websites

Module 6: Planning and Implementing Storage

In this module students will look at types of storage, how to choose/plan storage, storage accounts, and affinity groups. They will move on to learn how implement BLOBs and azure files, recovery services and backup, diagnostics, monitoring, and analytics.

Lessons

- Planning Storage
- Implementing and Managing Storage
- Backup and Monitoring Storage

Lab: Planning and Implementing Storage

- Creating and Configuring Storage
- Using Azure File Storage
- Protecting Data with Azure Backup

Module 7: Planning and Implementing Data Services

In this module students will look at the differences between SQL databases on-premise and Azure SQL databases. They will learn how to implement Azure SQL databases, how to migrate data to SQL Azure, how to monitor the databases once created in Azure and about business continuity using database copy and export, Self-service restore and Geo-replication.

Lessons

- Data Services in Microsoft Azure
- Implementing Azure SQL Database
- Managing Azure SQL Database Security
- Monitoring Azure SQL Database

Lab: Planning and Implementing Data Services

- Configuring Azure SQL Database
- Migrating a Database to SQL Database
- Restoring a Database

Module 8 Implementing Azure Active Directory

In this module students will learn how to implement Azure Active directory, and then manage users within the directory. They will also look at adding customer domains, at multi-factor authentication and at application integration with Azure active Directory. Finally they will learn about the features and benefits offered by Azure Active Directory Premium.

Lessons

- Creating and Managing Azure Directories
- Configuring Application Integration with Azure Active Directory
- Overview of Azure Active Directory Premium

Lab: Implementing Azure Active Directory

- Administering Active Directory

Module 9 Extending On-premised network to Microsoft Azure

In this module students learn about creating a VPN connection between on-premised to Microsoft Azure, both site-to-site and point-to-site VPN.

Lessons

- Requirements for creating VPN connection with Microsoft Azure
- Creating a site-to-site VPN
- Creating a point-to-site VPN

DEMO : Extending On-premised network to Microsoft Azure

- Creating a site-to-site VPN
- Creating a point-to-site VPN

Module 10 Active Directory in a Hybrid Environment

In this module students learn about managing Active Directory in a Hybrid environment. They start by looking at extending the on-premises active directory into the cloud, and how to manage Office 365 users. They then move on to learn about Directory Synchronization (Dir Synch) and federation (AD FS).

Lessons

- Creating and Managing Azure Directories
- Configuring Application Integration with Azure Active Directory
- Overview of Azure Active Directory Premium

Lab : Implementing Azure Active Directory

- Administering Active Directory
- Configuring Single Sign-On

Module 11: Managing Microsoft Azure using Azure Power Shell

This module starts with an introduction to Power Shell for Azure, which allow automation for IT administrator to managing Microsoft Azure using PowerShell for Windows and Cross platform command line tools.

Lessons

- Introduction to PowerShell for Azure
- Introduction to Cross platform command line tools

Lab : Implementing Azure Active Directory

- Managing Microsoft Azure using PowerShell for Windows