**Microsoft Azure Day Workshop, 30th May, 2018**

Department of Computer Engineering, UET Taxila has organized a Workshop on Microsoft Azure on 30th May, 2018. Resource person of the event was **Sheikh Rizwan (**Education Program Manager, Enterprise & Partner Group, Microsoft).

**What is Microsoft Azure?**

Microsoft Azure (formerly Windows Azure) is a cloud computing service created by Microsoft for building, testing, deploying, and managing applications and services through a global network of Microsoft-managed data centers. It provides software as a service (SaaS), platform as a service (PaaS) and infrastructure as a service (IaaS) and supports many different programming languages, tools and frameworks, including both Microsoft-specific and third-party software and systems. Azure was announced in October 2008 and released in February 1, 2010 as "Windows Azure" before being renamed "Microsoft Azure" on March 25, 2014. Microsoft lists over 600 Azure services.

**Event Description**

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| Module | Topic | Talk | Duration |
| Azure Services Overview | Getting Started with Azure – Portal & Admin Overview | * Overview of Cloud * Introduction of Azure * Portal Walkthrough | 30 mins |
| Azure IaaS | Azure Virtual Machines | * Overview of Azure Compute * VM Instance Types and Sizes * Plan Your VM Implementation * Scale an Azure VM up or Down * Azure Virtual Machine Resources * Deploy an Azure VM from the Portal * Connect to Your Azure VMs | 30 mins |
|  | Azure Networking | * Overview * IP Address Options * Review Your Solution * Configure IP Addresses * Azure VPN Gateway * Deploy an Azure Site-to-Site VPN * Test the Configuration | 30 mins |
|  | Azure Storage | * Azure Storage Basics * Creating Azure Storage Account * Investigate Azure Storage Pricing * Azure Storage Account Types * Replication Options * Azure CDN and Caching * Azure Storage Queues * Azure Storage Tables * Work with Azure Storage Account | 30 mins |
|  | Azure Identity | * Overview of Azure AD * Basics of Authentication in Azure AD * Authentication Scenarios for Azure AD * Integrating a Demo Web App in Azure AD * Signing into Azure AD via a Demo Web App | 30 mins |
| Azure Security and Management | Analytics and Insights | * Operations Management Suite * Application Insights | 15 mins |
|  | Azure Security Center | * Azure VM Compute Security * Azure Networking Security * Azure Internet Facing Endpoints Security | 15 mins |
|  | Azure Advisor | * Azure Recommendations * Recommendations for Security * Performance Recommendations | 15 mins |
|  | Azure Cost Management | * Cost management in Portal * Cloudyn Overview * Pricing Overview with Peak | 15 mins |
| Azure PaaS |  | * Azure App Service Introduction * Azure SQL Introduction * Serverless architecture with Azure Functions * Web App for Containers | 1 hr. |
| Azure Use Cases | Case Studies and Success Stories on Azure | * <https://customers.microsoft.com/en-us/story/george-washington-university-higher-education-azure> * <https://customers.microsoft.com/en-us/story/uppr-education-azure-stack-windows-server-system-center-puerto-rico> * <https://customers.microsoft.com/en-us/story/republic-polytechnic-edu-office365-azure-sharepoint-en> * <https://customers.microsoft.com/en-us/story/san-joaquin-valley-college> * <https://customers.microsoft.com/en-us/story/urban-refuge> * <https://customers.microsoft.com/en-us/story/fordham-university> * <https://customers.microsoft.com/en-us/story/politecnico-di-milano> * <https://customers.microsoft.com/en-us/story/atma-jaya-university-office365-azure-active-directory-education-indonesia> * <https://customers.microsoft.com/en-us/story/taibah-university-azure-saudi-arabia-education> * <https://customers.microsoft.com/en-us/story/universiti-sains-malaysia-office-azure-education> * <https://customers.microsoft.com/en-us/story/schooldistrict42> * <https://customers.microsoft.com/en-us/story/keiser-university-education-azure-stack-enterprise-mobility-security-intune-office365-en> * <https://customers.microsoft.com/en-us/story/dubai-international-school-education-office365-azure-active-directory-uae> * <https://customers.microsoft.com/en-us/story/institute-lents-students-surface-pro-3-as-main-devices-with-performance-mobility-and-security> * <https://customers.microsoft.com/en-us/story/aircare-health-provider-azure> | 1 hr. |