

## Microsoft Azure Training - Details Course Outlines

Module No	Module Details
<b>Managing Azure Subscriptions and Resource Groups.</b>	
01	<ul style="list-style-type: none"> <li>• Introduction to Cloud Computing</li> <li>• Overview of Microsoft Azure</li> <li>• Microsoft Azure Services</li> <li>• Azure Subscriptions</li> <li>• Management Groups</li> <li>• Azure Resource Manager</li> <li>• Azure Portal and PowerShell</li> <li>• Azure Resource Manager Policies</li> <li>• Azure Policy Definition Structure</li> <li>• Resource Management Locks</li> <li>• Organizing Azure Resources</li> </ul>
<b>Azure Virtual Networks and Network Security</b>	
02	<ul style="list-style-type: none"> <li>• Introduction to Azure Virtual Networks</li> <li>• IP Addresses – Public and Private</li> <li>• Classless Inter-domain Routing (CIDR)</li> <li>• Subnets</li> <li>• Network Interface Cards (NICs)</li> <li>• Network Security Groups (NSGs)</li> <li>• Network Security Group Rules</li> <li>• Virtual Network Service Endpoints</li> <li>• Service Endpoint Policies</li> <li>• Azure DNS</li> <li>• Azure Firewall</li> <li>• Azure Bastion Service</li> </ul>
<b>Overview of Azure Virtual Machines</b>	
03	<ul style="list-style-type: none"> <li>• Azure Virtual Machines</li> <li>• Azure Resource Manager VM</li> <li>• Introduction to ARM Templates</li> <li>• Create a Custom Image of Azure VM</li> <li>• Create a Managed Image of a Generalized VM</li> <li>• Create an Image from VM Snapshots</li> <li>• Creating a Linux Virtual Machine</li> <li>• Virtual Machine Extensions</li> <li>• Configuration Management using PowerShell DSC</li> <li>• Run Custom Scripts using Custom Script Extension</li> <li>• Azure Kubernetes Service (AKS)</li> <li>• Azure Container Instances (ACI)</li> <li>• App Service</li> </ul>

	<ul style="list-style-type: none"> <li>• App Service Plans</li> </ul>
<b>Overview of Azure Storage Services</b>	
04	<ul style="list-style-type: none"> <li>• Azure Storage</li> <li>• Azure Storage Replication</li> <li>• Azure Storage Explorer</li> <li>• Attach or Detach an External Storage Account</li> <li>• Shared Access Signatures (SAS)</li> <li>• Attach a Storage Account using SAS</li> <li>• Azure Blob Storage</li> <li>• Azure File Storage</li> <li>• Azure Queue Storage</li> <li>• Azure Table Storage</li> </ul>
<b>Secure and Manage Azure Storage</b>	
05	<ul style="list-style-type: none"> <li>• Azure Backup</li> <li>• Why Use Azure Backup?</li> <li>• Files and Folder Backup</li> <li>• Application Backup</li> <li>• Azure File Share</li> <li>• Azure File Sync</li> <li>• Content Delivery Network (CDN)</li> <li>• How CDN Works?</li> <li>• Azure Import/Export Service</li> <li>• Azure Data Box</li> </ul>
<b>Configure Virtual Machines for High Availability</b>	
06	<ul style="list-style-type: none"> <li>• Azure Virtual Machine Storage</li> <li>• Azure Virtual Machine Availability</li> <li>• Fault and Update Domains</li> <li>• Azure Load Balancer</li> <li>• Automatic Scaling of Azure VMs</li> <li>• VM Scale Sets</li> <li>• Azure VM Backup</li> <li>• Azure VM Monitoring with Azure Diagnostics Extension</li> <li>• Azure Advisor</li> </ul>
<b>Network Traffic Distribution and Connectivity</b>	
07	<ul style="list-style-type: none"> <li>• Azure Traffic Manager</li> <li>• Azure Application Gateway</li> <li>• Azure Virtual Network Routing</li> <li>• Azure Virtual Network Connectivity</li> <li>• Azure VPN Gateway</li> <li>• BGP with VPN Gateway</li> <li>• Virtual Network Peering</li> </ul>

<b>Integrate On-premises Network with Azure Virtual Network</b>	
08	<ul style="list-style-type: none"> <li>• Azure Inter-site VPN Connectivity Methods</li> <li>• Site-to-Site VPN Gateway Connection</li> <li>• Point-to-Site VPN Gateway Connection</li> <li>• VNet-to-VNet Connections</li> <li>• Azure ExpressRoute</li> <li>• Azure Virtual WAN</li> <li>• Azure Network Watcher</li> <li>• Resource Troubleshooting in Azure Network Watcher</li> </ul>
<b>Monitoring and Access Management for Cloud Resources</b>	
09	<ul style="list-style-type: none"> <li>• Overview of Role Based Access Control</li> <li>• Azure Monitor</li> <li>• Log Analytics</li> <li>• Azure Activity Log</li> <li>• Alerts in Azure Monitor</li> <li>• Custom roles in Azure</li> <li>• Provide access to Azure resources by assigning roles</li> <li>• Manage multiple directories</li> </ul>
<b>Manage Azure Active Directory (AD)</b>	
10	<ul style="list-style-type: none"> <li>• Identity Access Management</li> <li>• Azure Active Directory</li> <li>• Multi Factor Authentication</li> <li>• Self-Service Password Reset</li> <li>• Azure AD Identity Protection</li> <li>• Azure AD Conditional Access</li> <li>• Azure AD Domains and Tenants</li> <li>• Azure AD Domain Services</li> <li>• Azure AD Join</li> <li>• Azure AD Single Sign-On</li> <li>• Manage Azure AD Objects</li> </ul>
<b>Implementing and Managing Hybrid Identities</b>	
11	<ul style="list-style-type: none"> <li>• Hybrid Identity</li> <li>• Password Hash Synchronization (PHS)</li> <li>• Pass-through Authentication (PTA)</li> <li>• Federated Authentication</li> <li>• Azure AD Seamless Single Sign-On (SSO)</li> <li>• Azure AD Application Proxy</li> <li>• Password Writeback</li> </ul>