**Microsoft Azure Training**:

* This course covers Azure Administration.
* The modules which cover over here are:

**Introduction to Cloud:**

* + What is cloud?
  + History and Evolution of Cloud
  + Cloud Computing Concepts
  + Types of Cloud Computing
  + Cloud Computing Models
  + Public Cloud Computing:
    - Azure, AWS, GCP

**Module 1: Azure Introduction:**

* + Azure Terminology
  + Azure Account Creation
  + Billing Alerts
  + Subscription Management
  + Cost Analysis & Management

**Module 2: Azure Entra ID – Part1**

* + Entra ID Introduction
  + Create User without Permissions
  + Granting access at the Resource level, resource group level, subscription level
  + Creating Custom Roles
  + Granting Custom Roles to the user

**Module 3: Azure Virtual Machine**

* + Creating a Virtual Machine
  + Login to VM
  + BootStrap – Custom Data
  + Custom Script Extension
  + Working with extra disk
  + Disk Snapshot
  + Azure Shared Disks
  + VM resize
  + Adding Network Interface
  + Custom Image Creation
  + Managed VS Unmanaged Disks
  + Boot Diagnostics & Console Connect

**Module 4: Virtual Machine Availability**

* + Introduction for Infra Availability
  + Availability Sets
  + Availability Zones
  + Azure Scale Sets
  + Proximity Placement Group
  + Azure ReDeploy

**Module 5: Azure VM Backup**

* + Backup for the virtual machines
  + Restore files from backup
  + Restore VM from backup
  + Soft deletion of backup
  + Azure Backup Agent
  + Azure Site Recovery for the Virtual Machine

**Module 6: Azure Virtual Network**

* + Introduction to server networking
  + Create VNET with subnets
  + Create a server from custom subnet
  + Create bastion/jump host
  + Working with public ip’s, network interfaces
  + Network Security Group at Interface level, Subnet level
  + Virtual Network Peering
  + User Defined Routes
  + Firewall, DNS

**Module 7: Azure APP Services**

* + Service plan creation
  + Using visual studio
  + Create a sample application
  + Webapp creation
  + Explore webapp development
  + Deployment slots
  + Webapp autoscaling
  + Virtual network integration
  + Webapp custom domains

**Module 8: Load Balancer**

* + Introduction about load balancer
  + Load balancer with VM’s (Basic and Standard)
  + Basic LB with Availability Sets, InBound NAT Rules, VMSS
  + Standard LB with Availability Sets, VMSS, multiple backend pools, Inbound NAT rules, SNAT
  + Application gateway – context based routing, multiple sites

**Module 9: Azure Stroage**

* + Introduction about storage
  + Blob Service
  + Accessing data using Shared Access Signatures, using storage explorer, using AD users
  + Data redundancy – LRS, ZRS, GRS, RAGRS, GZRS
  + Storage access tiers
  + Storage lifecycle policies
  + Object replication
  + Azure file share
  + Firewall and network settings

**Module 10: Azure Monitoring and Logging**

* + Introduction about montoring & metrics
  + Activity logs & alerts
  + Log analytics
  + Sending custom logs
  + Dashboards
  + Application insights
  + Resource tags
  + Resource management
  + Locks

**Module 11: Azure Containers and Azure Kubernetes**

**Module 12: Azure CLI and PowerShell**

**Module 13: Azure ARM and Terraform**

**Module 14: Azure Identities (Part-2)**

* + Active Directory Groups, Rules
  + Adding VM to AD
  + Password and MFA for users
  + Conditional Access.

Note:

* Class Timings Mon to Fri Only and 1 Hr Daily.
* All are Practical Oriented and Real Time Tasks only.
* All Modules will not be covered under the Free Trail.
* Some Modules will be covered under Pay-As-you-Go Method.