**AZURE FREE MASTER CLASS DAY WISE SCHEDULE - TOPICS**

Hello participants, please find below day wise breakup and topics which will be covered as part of the free master class on azure.

**8th May 2020**

• Why cloud service, why are organizations moving to cloud?

• The shift to cloud platforms

• Microsoft Azure | Amazon Web Services and Google Cloud Platform

• Infrastructure-as-a-Service (IaaS), Platform-as-a-Service (PaaS), and Software-as-a-Service (SaaS)

• Microsoft azure cloud platform o Subscriptions and types o Portal

• Microsoft azure regions

o Availability zones o Azure services by region o Why choosing the right region is important?

**Hands-On:**

o Login to The Microsoft Azure Portal o Subscription View o Azure Service Catalog and Important Azure Services o Dashboard

This is a 10 Days Agenda – 1 Hour Per Day Drafted for The FREE Azure Master Class Concept Designed and Executed by Rahul Joshi

**AZURE FREE MASTER CLASS DAY WISE SCHEDULE - TOPICS**

**9th May 2020**

• Cost Management and Billing

• Budgets and Why Are They Important

• What is an Action Group?

• Activity Logging in Azure

• Role Based Access Control

o How to Invite and Add User to Azure Subscription o Roles and Built in Roles o Custom Roles, Creating Custom Roles.

**Hands-On:**

o How to View to Cost Per Month, Week, Custom Parameters o Setting Budgets and Action Group o How to Create a Custom Role and Add Users to The Role?

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**AZURE FREE MASTER CLASS DAY WISE SCHEDULE - TOPICS**

**10th May 2020**

• Organize your Resources

• Management Groups and Subscriptions

• Resource Groups

o Lock Resource Groups, Tag Resource Groups

• Resources

• Core Azure Services

o Compute, Storage, Networking, App Services, Database,

Containers

• Storage Account

o Why Cloud Storage? o Availability, Durability, Security, Scalable, Managed and

Accessible. o Core Storage Services

▪ Azure Blobs, Azure Files, Azure Queue, Azure Tables, Azure Disks o Access Tiers

▪ Hot, Cool and Archive

**Hands-On:**

o Creating Management Group and Resource Group o Locking and Tagging Resources o Creating Storage Account

▪ Understanding Important Configurations

▪ Configure Access Tiers

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**AZURE FREE MASTER CLASS DAY WISE SCHEDULE - TOPICS**

**11th May 2020**

• What is Virtualization, VMWare and Hyper-V

• Compute Service – What is a Virtual Machine

• Virtual Machine Planning

• Virtual Machine Images

• Availability of Virtual Machines – Availability Zone vs Availability Set

• Virtual Machine Sizes

• Types of Virtual Machines

o General Purpose, Compute Optimized, Memory Optimized,

Storage Optimized, GPU and High-Performance Compute.

• Azure Pricing Calculator and Cost Management Savings.

**Hands on**

o Creating a Virtual Machine o Configuring VM Size o Configuring Availability for the Virtual Machine

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**AZURE FREE MASTER CLASS DAY WISE SCHEDULE - TOPICS**

**12th May 2020**

• What is Serverless Computing?

• Azure App Services

• Azure App Service Plans

o Free, Standard, Basic, Standard, Premium, Premium V2,

Isolated

• Scale Up Web App, Custom Scaling

• Azure Kubernetes Service

**Hands on**

o Creating a Web App o Creating App Service Plan o Deploy Source Code using Visual Studio to Web App o Implement Azure Kubernetes Service o Deploy Git Hub Code to Azure Kubernetes Service with Redis

Cache

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**AZURE FREE MASTER CLASS DAY WISE SCHEDULE - TOPICS**

**13th May 2020**

• What is Networking?

• IP Address | Subnet | Virtual Network Gateway | Public and Private IP

• Best Practices in configuring networking

• Communicate between Azure resources

• Communicate with on-premises resources

• What is Network Security Group?

• What is Service Endpoint?

• Knowing Virtual Network Limits

**Hands on**

o Creating a Virtual Network o Configuring Network Security Group o Creating Vnet Peering

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**AZURE FREE MASTER CLASS DAY WISE SCHEDULE - TOPICS**

**14th May 2020**

• Databases on Azure

• What is SQL Azure?

• Azure SQL Database Features

• Single Database - vCore, DTU Based Limits

• Elastic Pool and When to Use Elastic Pool?

**Hands on**

o Create a SQL Azure Database Using DTU Based Provisioning o Configure Replication o Configure Dynamic Data Masking o Enabling Automatic Tuning

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**AZURE FREE MASTER CLASS DAY WISE SCHEDULE - TOPICS**

**15th May 2020**

• Working with Data

• When To use Storage Account, Data Lake Storage, Data Bricks, CosmosDB, HDInsight and Azure Data Factory

• What is CosmosDB and Benefits of using CosmosDB

• What is Azure Data Factory

o Linkedin Servers o Data Sets o Pipelines o Schedule o Pipeline Runs o Monitoring

**Hands on**

o Configure CosmosDB o Migrate Data from SQL Azure to CosmosDB using Data

Factory

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**AZURE FREE MASTER CLASS DAY WISE SCHEDULE - TOPICS**

**16th May 2020**

• How to Monitor Azure Resources?

• What is Activity Monitor

• What is Log Analytics?

• What is Log Analytics Workspace and how to capture data?

**Hands on**

o Understanding Activity Monitor o Configure Log Analytics Workspace and Capture Compute

Data o Configure Log Analytics Alerts for Storage Access Key

Changes

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**AZURE FREE MASTER CLASS DAY WISE SCHEDULE - TOPICS**

**17th May 2020**

• What is Azure Active Directory?

• How to Create a New Azure Active Directory and Create Users within it?

• Understanding Users and Groups

• Migrate On-Premise Users to Azure Active Directory

• What is Multi Factor Authentication?

• Conditional Access

**Hands on**

o Configure On-Premise Virtual Machine and Migrate Users to

Azure Active Directory for accessing SAAS Based Applications. o Configure MFA and Conditional Access

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