

About Rahul Joshi:

22 Years exp, 15th year as Microsoft certified trainer & AWS Authorized instructor

- Helping customers add Application Modernization capabilities by Replatforming ASP.NET sites to Azure App Services, Rearchitecting of monolithic applications to microservices or containers.
- Reengineering of legacy applications to cloud-native apps with improved user experience.
- Designing cloud strategy, solution design, cloud adoption frameworks, app modernization and cloud migration.
- Develop Proof of Concept by working closely with Microsoft and Amazon Web Services and design frameworks for cloud adoption and Enterprise Architecture, Cloud Infrastructure/ Migrations.
- Responsible for Migration to Microsoft Azure (Brownfield and Greenfield Projects). In-Premise To Cloud Migration and Storage Migration.
- Perform Application Readiness Assessment, an investigation at application level in preparation for cloud deployment, to look at issues that will either block or detract from the application's abilities to fully utilize the cloud, then act on this report to ensure cloud readiness.
- Designing applications for scalability
- Migrating to PaaS & Container Architecture, Migrating from Traditional .NET Application Web Apps

"Executed more than 580+ Trainings engagements on Microsoft Azure for more than 220+ clients"

Google Drive Link:

https://drive.google.com/drive/folders/181ebdbVLk5xpLu5ArR_BFWem9b3N2x3?usp=sharing

Recording:

Please Note, Post Session Completes Zoom Recording Link will be shared on WhatsApp, Download it from Zoom Directly. It will not be uploaded on Google Drive

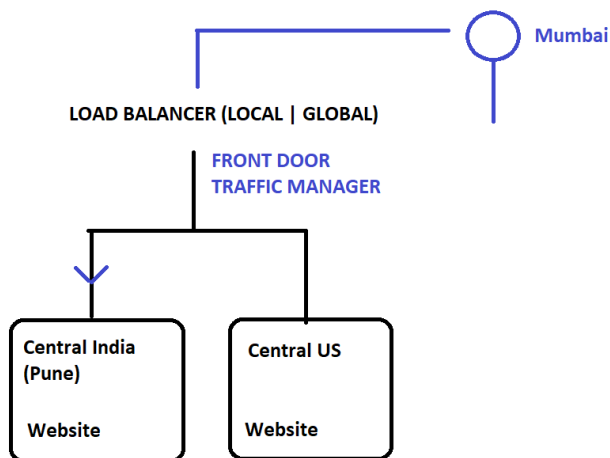
One Note Documentation:

<https://1drv.ms/u/s!Aht-oGFG3XwWgagy2dnZHuXQmk0wkg>

Cloud Benefit

Customer latency capabilities

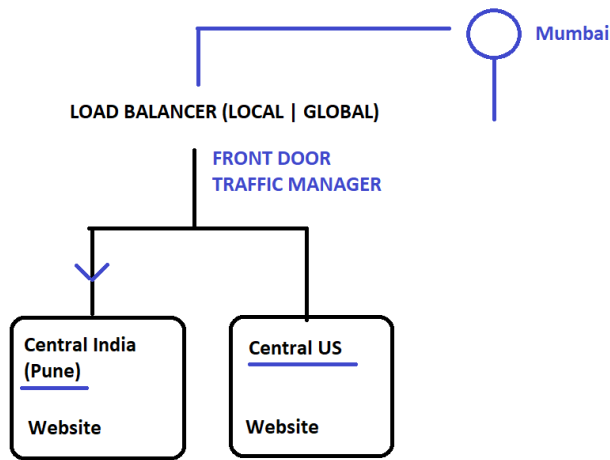
Cloud has this unique feature or benefit, that it understands Customer's latency capabilities. I should be taken to the datacenter closet to me.



Agility

What is Agility in Cloud?

Agility = Agile = Quick = How fast can you take the solution to the market



To implement the above solution in Azure, it will take a maximum of 12 minutes, this is very scary and people get surprised, that is actually called "Agility"

Predictive cost considerations

Cloud always tells you, how much cost will be applied, per hour, per day cost is transparent. The cost is typically an estimate and can have lower or higher range, but does not surpass the actual cost given by Microsoft.

Cost Calculator

<https://azure.microsoft.com/en-in/pricing/calculator/>

Products
Example Scenarios
Saved Estimates
FAQs

Select a product to include it in your estimate.

Search products

Featured
Compute
Networking

Virtual Machines
Provision Windows and Linux virtual machines in seconds

Virtual Machines

REGION: West India
OPERATING SYSTEM: Windows
TYPE: (OS Only)
TIER: Standard

CATEGORY: All
INSTANCE SERIES: All
INSTANCE: B4ms: 4 Cores, 16 GB RAM, 32 GB Temporary storage, \$0.266/hour

Virtual machines
1
x
1
Month

Savings Options

Save up to 72% on pay-as-you-go prices with 1-year or 3-year Reserved Virtual Machine Instances. Reserved Instances are great for applications with steady-state usage and applications that require reserved capacity. [Learn more about Reserved VM Instances pricing.](#)

Compute (B4ms)

- ☒ Pay as you go
 - ☐ 1 year reserved (~44% discount)
 - ☐ 3 year reserved (~64% discount)
- \$173.74
Average per month

OS (Windows)

- ☒ License included
 - ☐ Azure Hybrid Benefit
- \$20.44
Average per month

= \$194.18
Average per month

Savings Options

Save up to 72% on pay-as-you-go prices with 1-year or 3-year Reserved Virtual Machine Instances. Reserved Instances are great for applications with steady-state usage and applications that require reserved capacity. [Learn more about Reserved VM Instances pricing.](#)

Compute (B4ms)

- ☐ Pay as you go
- ☒ 1 year reserved (~44% discount)
- ☐ 3 year reserved (~64% discount)

COMPUTE PAYMENT OPTIONS:

Monthly

\$97.83

Average per month
(\$0.00 charged upfront)

OS (Windows)

- ☒ License included
- ☐ Azure Hybrid Benefit

\$11.68

Average per month
(\$0.00 charged upfront)

= \$109.51

Average per month
(\$0.00 charged upfront)

Managed Disks

\$0.00

Savings Options

Save up to 72% on pay-as-you-go prices with 1-year or 3-year Reserved Virtual Machine Instances. Reserved Instances are great for applications with steady-state usage and applications that require reserved capacity. [Learn more about Reserved VM Instances pricing.](#)

Compute (B4ms)

- ☐ Pay as you go
- ☐ 1 year reserved (~44% discount)
- ☒ 3 year reserved (~64% discount)

COMPUTE PAYMENT OPTIONS:

Monthly

\$61.69

Average per month
(\$0.00 charged upfront)

OS (Windows)

- ☒ License included
- ☐ Azure Hybrid Benefit

\$11.68

Average per month
(\$0.00 charged upfront)

= \$73.37

Average per month
(\$0.00 charged upfront)

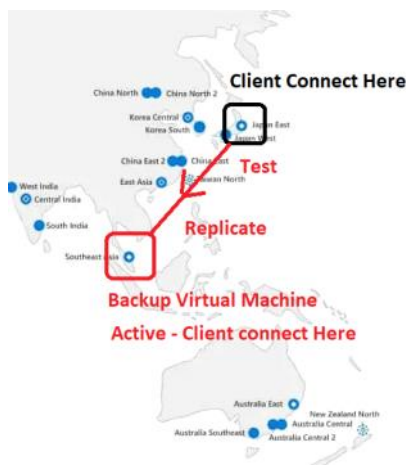


Disaster recovery

Disaster = outage = downtime = big problem = operations stopped

How can you recover from the problem, is Disaster Recovery, have you taken care, precaution is better than cure

Disaster Recovery = WHAT IF



Security - AZ-500 Azure Security

Security = Access Control
Security = Permission Management
Security = Preventing Attacks
Security = Firewall
Security = Protection
Security = Auditing

Services

Virtual Machine = Security
Storage Account = Security
Database = Security
Analytics Service = Security
Networking = Security

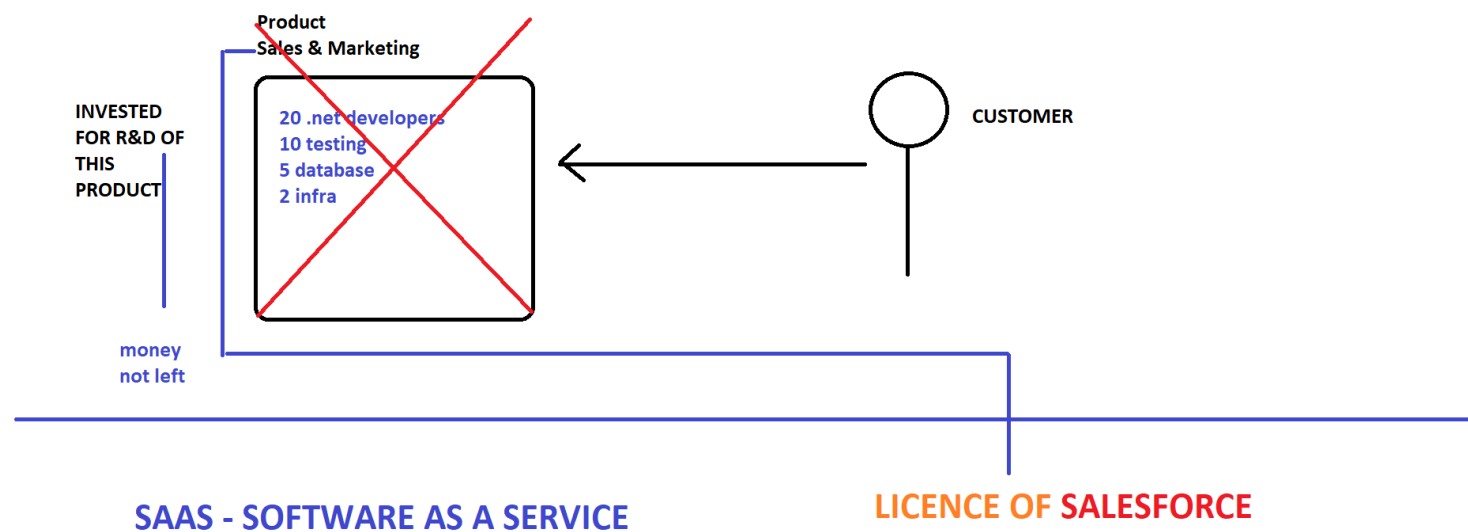
Security = Shared Responsibility

IAAS vs PAAS vs SAAS

IAAS - INFRASTRATURE AS A SERVICE (HARDWARE)
Microsoft - CPU | Memory | Disk | Network

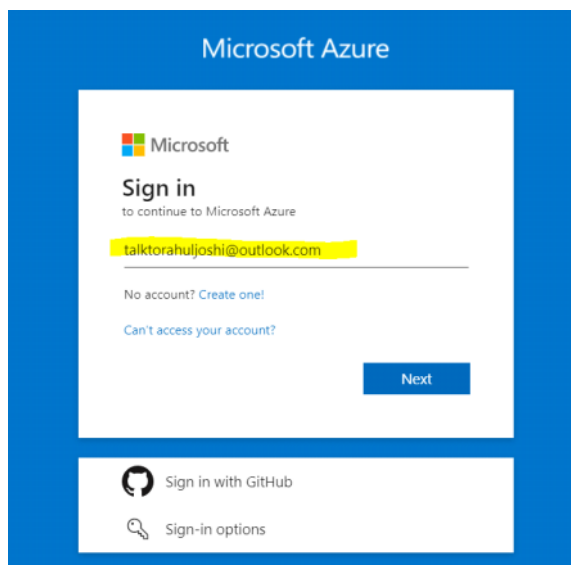
PAAS - PLATFORM AS A SERVICE
Hardware + Operating System + TOOLS (.NET, JAVA)

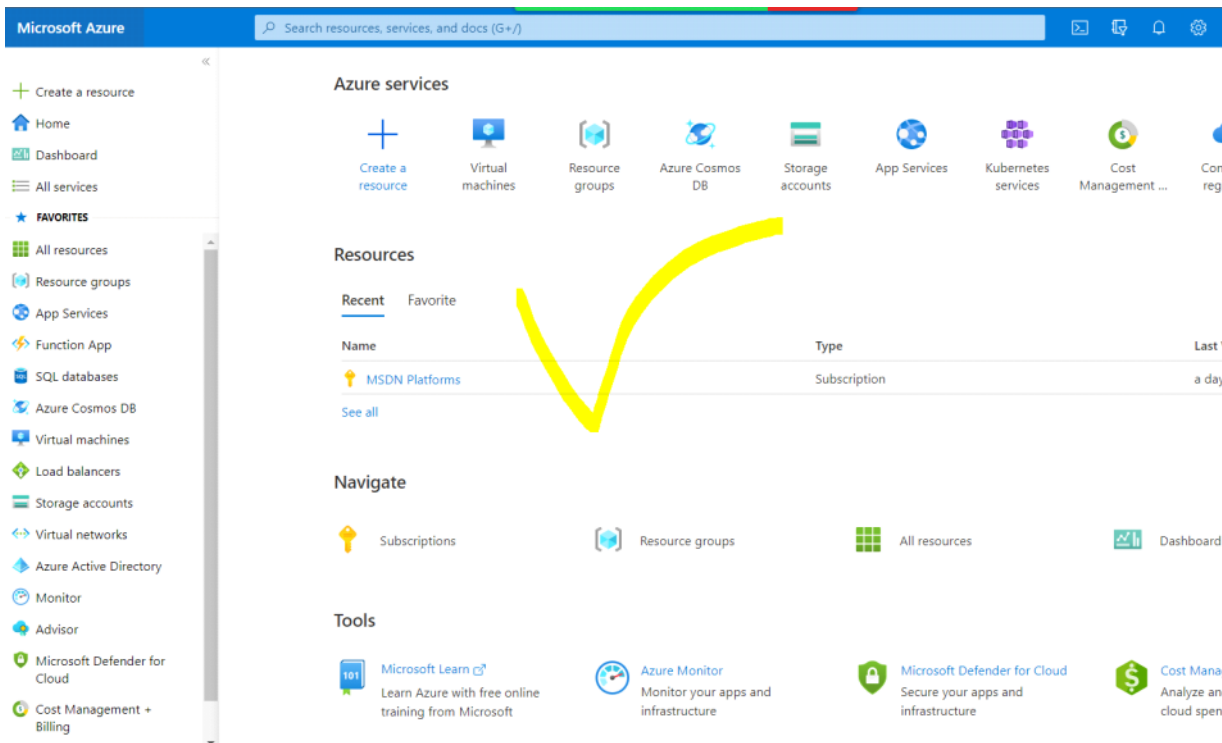
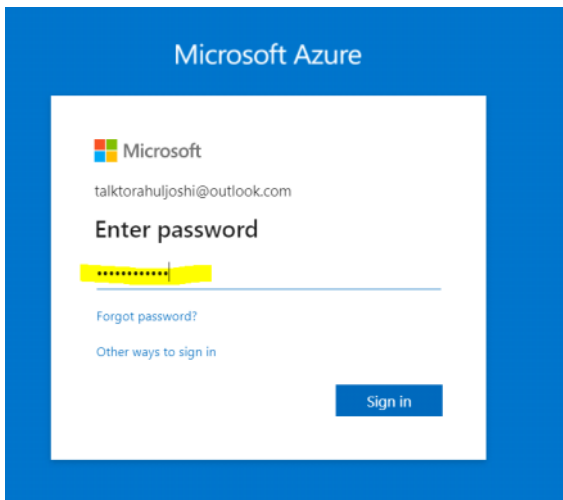
SAAS - SOFTWARE AS A SERVICE
NO HARDWARE - NO OPERATING - JUST BROWSER - LOGIN BROWER - USE SOFTWARE AS SERVICE
EXAMPLE, OFFICE 365, SALESFORCE, GOOGLE SUITE, GOOGLE DOCS,



HANDS-ON STARTS FROM NOW, NO MORE PPTs

Which Portal or which website can we use to work with Microsoft Azure?
[Portal.azure.com](https://portal.azure.com)





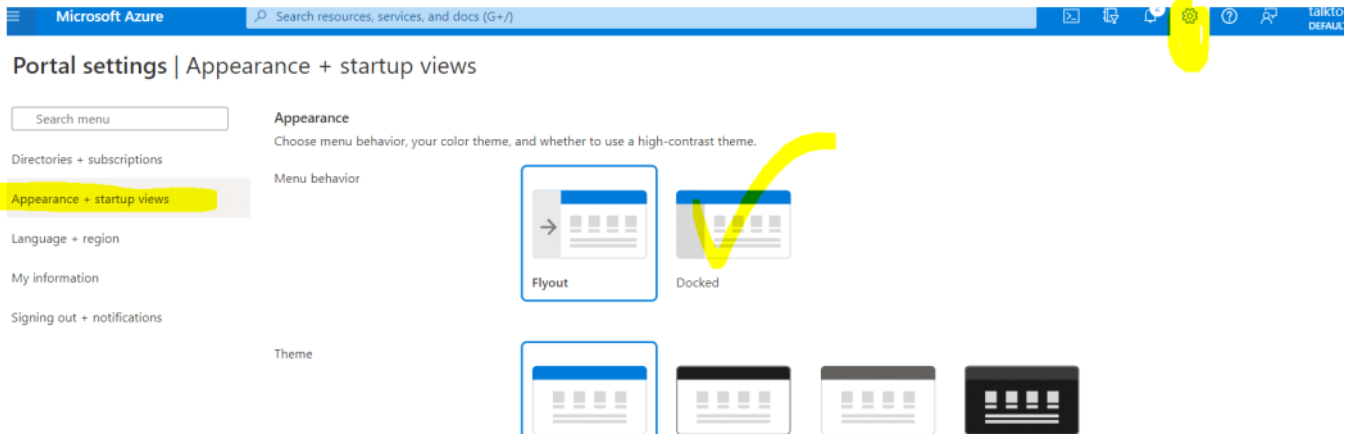
What are the different ways in which we can configure, work within Azure?

1. Microsoft Azure Portal (GUI - Many people prefer this way)
2. **Azure Powershell - Powershell** is a scripting language of Microsoft - Used only on Microsoft Windows Infrastructure. You can create a PS1 Script file and do Automation using Powershell.
3. **Azure CLI - Command Line Interface** - Work on Windows & Linux, Commands are very simple, easy

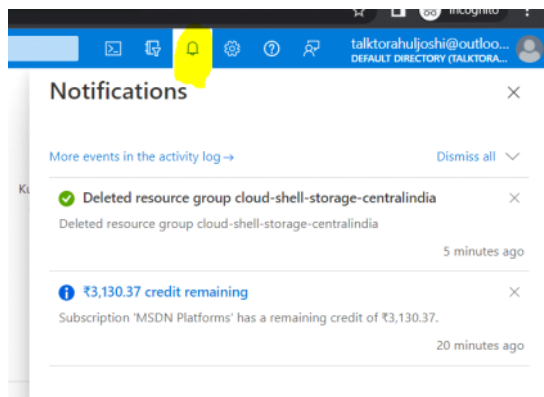
The biggest advantage of using Script is "Consistent", Script once written will always give sane result.

4. Software SDK - Software Development Kit, Using **.NET, Using Java you can create / update Azure Resources**
5. Templates - ARM Templates, **Ansible, CHEF, Puppet, Terraform** - Software's can also help create Azure Infrastructure

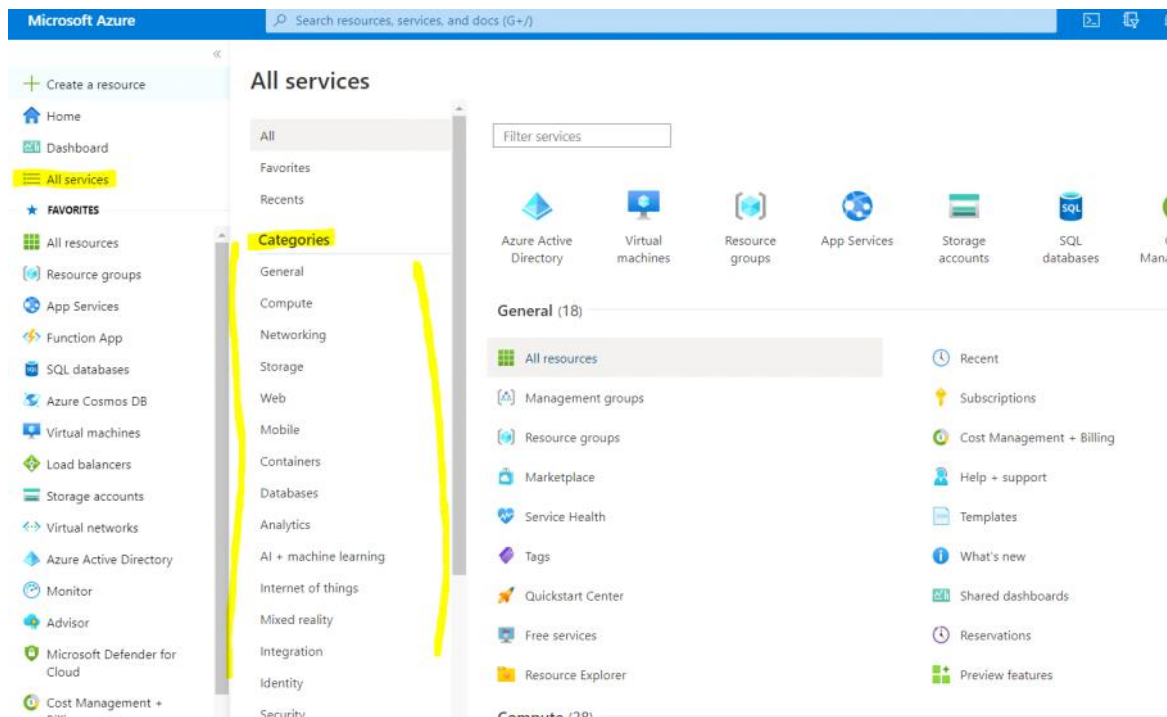
Explore Azure Portal



All status Updates, come on Bell ICON



I want to see, all the services in Azure?



All

Favorites

Recents

Categories

General

Compute

Networking

Storage

Web

Mobile

Containers

Databases

Analytics

AI + machine learning

Internet of things

Mixed reality

Integration

Identity

Security

Filter services

Virtual machines **Admin | Dev**

Virtual machine scale sets **Admin | Dev**

App Services **Dev | DevOps**

Batch accounts **Dev | automation**

Cloud services (classic)

Availability sets **Admin**

OS images (classic)

Citrix Virtual Desktops Essentials

SAP HANA on Azure

CloudSimple Services

Proximity placement groups

Host groups **Admin**

Application groups **Admin**

Workspaces

Virtual machines (classic)

Function App **Dev | DevOps**

Container instances **Dev | Admin**

Service Fabric clusters **Dev | Admin**

Kubernetes services **Dev | Admin**

Disks (classic)

VM images (classic)

Citrix Virtual Apps Essentials

CloudSimple Virtual Machines

CloudSimple Nodes

Hosts

Azure Spring Apps

Maintenance Configurations

Container Apps

All services | Networking

All

Favorites

Recents

Categories

General

Compute

Networking **50%**

Storage

Web

Mobile

Containers

Databases

Analytics

AI + machine learning

Internet of things

Mixed reality

Integration

Identity

Security

Filter services

Virtual networks **Admin | Architect**

Load balancers **Admin | Architect**

Network Watcher

Network interfaces **Admin**

Public IP Prefixes **Admin**

Application security groups **Dev | Admin**

Service endpoint policies

Web Application Firewall policies (WAF) **Admin**

Virtual WANs

DNS zones **Admin**

Application gateways **Admin**

IP Groups

Firewall Policies **Admin**

Connections **Admin**

Azure Synapse Analytics (private link hubs)

Front Door and CDN profiles **Admin | Dev**

Network security groups **Admin**

Public IP addresses **Admin**

Route tables **Admin**

DDoS protection plans **Admin**

Private DNS zones **Admin**

Private Link **Admin**

Bastions **Important - Admin**

Traffic Manager profiles **Admin**

NAT gateways

Firewall Manager **Admin**

Firewalls **Admin**

Local network gateways **Admin**

50% questions in Admin Exam
Come from Networking

Networking the Most Critical and
Most Important Category

Interviews

Certification
AZ-104
AZ-305

All services | Storage

All

Favorites

Recents

Categories

General

Compute

Networking

Storage **25%**

Web

Mobile

Containers

Databases

Filter services

Storage accounts **Admin | Dev | Data Engg**

Recovery Services vaults **Admin**

Data Lake Storage Gen1

Storage Sync Services

Azure Stack Edge

Azure Data Box

Data Shares

HPC caches

Storage accounts (classic)

StorSimple Device Managers

StorSimple Data Managers

Azure Stack Edge / Data Box Gateway

Azure Data Box Gateway

Azure NetApp Files

Data Share Invitations

25% Admin Exam question

AZ-104 - Admin
AZ-204 - Development
AZ-305 - Architect

Good To
Know from theory

All services | Web

All
Favorites
Recents
Categories
General
Compute
Networking
Storage
Web 50%
Mobile
Containers
Databases
Analytics

App Services **Admin | Dev | DevOps**

Front Door and CDN profiles **Admin**

Notification Hubs

App Service plans **Admin | Dev**

App Service Certificates

Media Services

Power Platform

API Connections **Dev**

API Management services **Dev**

Cognitive Search **Dev | AI & ML**

Notification Hub Namespaces

App Service Environments **Dev**

App Service Domains

SignalR

Azure Spring Apps

Static Web Apps **Dev | Admin**

50% questions for AZ-204 Developer

All services | Containers

All
Favorites
Recents
Categories
General
Compute
Networking
Storage
Web
Mobile
Containers 25% Dev 25% Admin Architect Fav Interviewer Fav

Container instances **Admin | Dev | DevOps**

Container registries **Dev | DevOps**

Service Fabric clusters **Admin | Dev**

Azure Red Hat OpenShift

Kubernetes services **Admin | Dev | DevOps**

Batch accounts **Dev**

App Services **Dev**

AZ-204 - Developing Solution on Azure
AZ-400 - DevOps in Azure

Free training from Microsoft [See all](#)

All services | Databases

All
Favorites
Recents
Categories
General
Compute
Networking
Storage
Web
Mobile
Containers
Databases 70%
Analytics
AI + machine learning
Internet of things
Mixed reality

Azure Cosmos DB **Admin | DB | Dev**

Azure SQL **Admin | DB | Dev**

Azure Database for MySQL servers **Add-on**

Azure Database for MariaDB servers **Add-on**

Dedicated SQL pools (formerly SQL DW)

Azure Database Migration Services **DB ** Interview**

SQL Server stretch databases **DB**

SQL elastic pools **DB**

Managed databases **DB**

SQL managed instances **DB**

SQL Server registries **DB**

Azure Cosmos DB API for MongoDB

SQL databases **DB**

Azure Database for PostgreSQL servers **Add-on**

SQL servers **DB**

Azure Synapse Analytics **DB | Data Engg**

Azure Cache for Redis

Data factories **DB | Data Engg**

Virtual clusters **DB**

Elastic Job agents **DB**

SQL virtual machines **Admin | DB**

70% Questions 2 Certification

DP-300 - Relational Databases in Aazure
DP-203 - Data Engg in Azure

Oracle - VM Can be created - IAAS
Oracle is not available as PAAS

AWS has Oracle :)

PREVIEW

Day 2 Page 8

All services | Analytics

Categories

- General
- Compute
- Networking
- Storage
- Web
- Mobile
- Containers
- Databases
- Analytics**
- AI + machine learning
- Internet of things
- Mixed reality
- Integration
- Identity

Azure Synapse Analytics **DB | Data Engg | Analytics**

Azure Databricks **DB | Data Engg | Analytics**

Data factories **DB | Data Engg**

Stream Analytics jobs **EB | Data engg | Analytics**

Analysis Services **Data engg | Analytics**

Event Hubs Clusters

Data Lake Storage Gen1

Power Platform

Azure Synapse Analytics (private link hubs)

HDInsight clusters **Out Dated**

Power BI Embedded

Data Lake Analytics **Data Engg | analytics**

Event Hubs **Data engg | Analytics**

Log Analytics workspaces **Admin | DB**

Azure Data Explorer Clusters

DB | Engg
20%

DP-203 - Data engg in Azure

All services | Integration

Categories

- General
- Compute
- Networking
- Storage
- Web
- Mobile
- Containers
- Databases
- Analytics
- AI + machine learning
- Internet of things
- Mixed reality
- Integration**
- Identity
- Security
- DevOps
- Migration
- Monitor

Logic apps **Dev**

API Management services **Dev**

Event Grid Topics **Dev**

Data factories **DB | Data engg**

SQL Server stretch databases **DB**

Relays

Logic Apps Custom Connector

Azure Stack Edge / Data Box Gateway

Azure Data Box Gateway

Azure API for FHIR

Power Platform

Event Grid System Topics **Dev**

Event Grid Partner Namespaces

Service Bus **Dev**

Event Grid Subscriptions **Dev**

Event Grid Domains

Data Catalog

StorSimple Device Managers

Integration accounts

Integration Service Environments

Azure Stack Edge

App Configuration

SaaS (classic)

API Connections **Dev**

Event Grid Partner Registrations

Event Grid Partner Topics

25% Questions
AZ-204 - Developing Solutions in Azure

All services | Identity

Categories

- General
- Compute
- Networking
- Storage
- Web
- Mobile
- Containers
- Databases
- Analytics
- AI + machine learning
- Internet of things
- Mixed reality
- Integration
- Identity**
- Security
- DevOps
- Migration

Azure Active Directory **Admin**

Azure AD Domain Services **Admin**

Groups

Azure AD Connect Health

Identity Governance

Managed Identities **Admin | Dev | DevOps**

Azure AD Security **Admin**

User settings

App proxy

Tenant properties

Azure AD roles and administrators

External Identities

Azure AD B2C **Admin**

Azure Information Protection

Users **Admin**

Enterprise applications **Admin**

Azure AD Conditional Access **Admin**

Azure AD Privileged Identity Management

Azure AD Identity Protection

AD Connect **Admin**

Security

Administrative units

Create custom Azure AD roles

70%

70% Question
AZ-500 Azure Security

Az-104 Azure Administration
All Identity & Security

Developers - Identity | Authorization

Day 2 Page 9

All services | Security

Networking

Storage

Web

Mobile

Containers

Databases

Analytics

AI + machine learning

Internet of things

Mixed reality

Integration

Identity

Security

DevOps

Migration

Monitor

Management and governance

Intune

Hybrid + multicloud

Filter services

Azure Synapse Analytics (private link hubs)

Key vaults **Admin | Security | Dev | DB**

Azure Active Directory **Admin**

Microsoft Sentinel **Admin *Important**

Azure AD Security **Admin**

Azure AD Identity Secure Score

Multifactor authentication **Admin**

Azure AD Risky users

Azure AD Risk detections

Azure AD Password protection

User settings

ScanX Management PREVIEW

Microsoft Defender for Cloud **Admin**

Azure Information Protection

Application security groups **Admin | Dev**

Extended Security Updates PR

Azure AD Identity Protection

Azure AD Authentication methods

Azure AD Conditional Access **Admin**

Azure AD Risky sign-ins

Azure AD Named locations

Azure AD Privileged Identity Management **Admin**

Microsoft Defender for IoT PR

Microsoft Defender EASM

AZ-104 Admin
Az-305 Architect
AZ-500 Security

All services | Monitor

Networking

Storage

Web

Mobile

Containers

Databases

Analytics

AI + machine learning

Internet of things

Mixed reality

Integration

Identity

Security

DevOps

Migration

Monitor

Management and governance

Filter services

Monitor **Admin |**

Metrics **Admin**

Application Insights **Dev | DevOps**

Log Analytics workspaces **Admin**

Azure Workbooks

Change Analysis PREVIEW

Alerts **Admin**

Autoscale **Admin**

Activity log **Admin**

Network Watcher

Diagnostic settings **Admin**

Give feedback

[Help improve this page](#)

All services | Migration

Networking

Storage

Web

Mobile

Containers

Databases

Analytics

AI + machine learning

Internet of things

Mixed reality

Integration

Identity

Security

DevOps

Migration

Management and governance

Filter services

Azure Migrate **Admin**

Azure Database Migration Services **DB**

Azure Data Box

Azure Stack Edge **Good To Know**

Recovery Services vaults **Admin**

Cost Management + Billing

Azure Stack Edge / Data Box Gateway

Azure Data Box Gateway

Free training from Microsoft [See all](#)

Design your migration to Azure
 6 units • 44 min
 Minimize the time and resources required

Microsoft data estate migration and modernization
 7 units • 36 min

Applications and infrastructure migration and modernization
 9 units • 43 min

Day 2 Page 10

Case Study:

The Customer is very new to Azure Platform and not aware of any services from the Azure Portfolio. The customer wants to create a server which will host their Web Site and so they need a Windows Server 2016 Datacentre Environment. Currently the customer uses "Physical Server" in their environment and is planning to move to Cloud. The customer is worried on the "Availability", "Security", "Performance" and also Cost. So, the customer wants to know from Azure Masters, on how this environment can be setup.

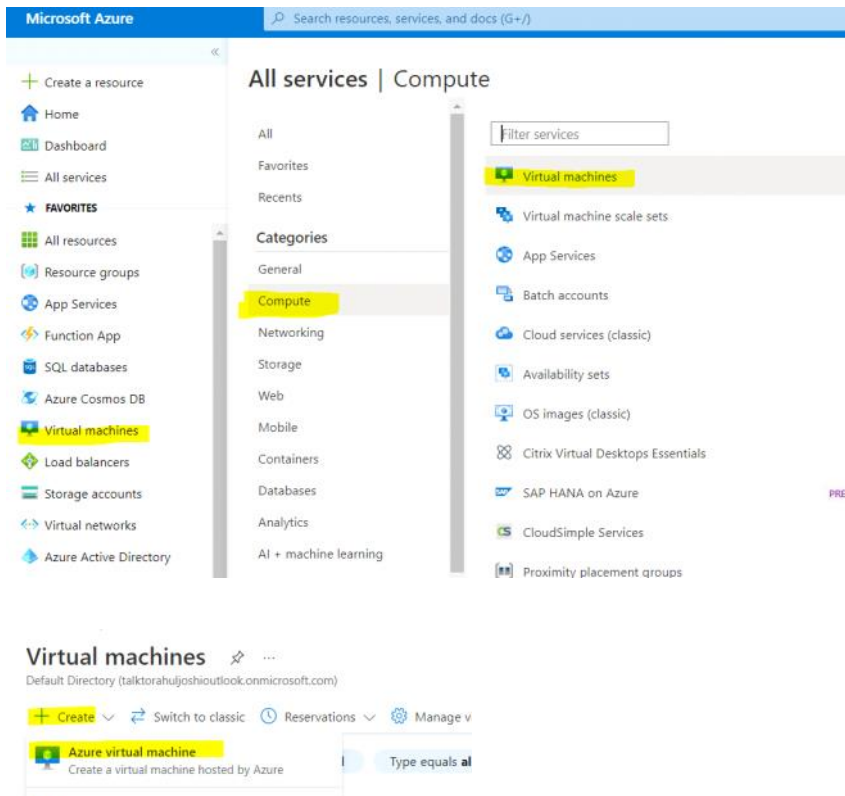
STAR = S - Situation, T - Task, A - Action and R - Results

Situation = Case Study

Task:

1. Create Virtual Machine

Action:



Basics | Disks | Networking | Management | Advanced | Tags | **Review + create**

Create a virtual machine that runs Linux or Windows. Select an image from Azure marketplace or use your own customized image. Complete the Basics tab then Review + create to provision a virtual machine with default parameters or review each tab for full customization. [Learn more](#)

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * ⓘ MSDN Platforms

Resource group * ⓘ (New) Resource group
[Create new](#)

Instance details

Virtual machine name * ⓘ

Region * ⓘ (US) Central US

Availability options ⓘ No infrastructure redundancy required

Security type ⓘ Standard

Image * ⓘ Ubuntu Server 20.04 LTS - Gen2

JSON (JAVASCRIPT OBJECT NOTATION)
(TEMPLATE)

EAST US (REGION)

PROVISION (CREATE)

DEPLOYMENT SUCCESSFULL

Create a virtual machine ...

Basics Disks Networking Management Advanced Tags Review + create

Create a virtual machine that runs Linux or Windows. Select an image from Azure marketplace or use your own customized image. Complete the Basics tab then Review + create to provision a virtual machine with default parameters or review each tab for full customization. [Learn more](#)

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * ⓘ MSDN Platforms

Resource group * ⓘ

Instance details

MSDN Platforms

Pay-As-You-Go

Project A - Client A - Connected Billing

Project B - Client B - Connected Billing

MSDN PLATFORM - DEV SUBSCRIPTION | PAY AS YOU GO - PRODUCTION SUBSCRIPTION

MOVE

Resource Group - Like Folder, In Folder you can keep variety of files, same way in one Resource Group you can have multiple resources

AZ-900 EXAM

1. In Azure You can many resource group, for every project you can have separate resource group, for every team (Dev, Staging, Test, Prod Team) you can have separate Resource Group, Each Client can have their own resource group
2. In a Resource Group, you create resources used by that project, that customer, that team
3. One Resource can be part of only 1 Resource Group, 1 Virtual Machine can be part of 1 Resource Group
4. You can also Script a Resource Group and Template can be created, the same template can be deployed in different subscriptions.
5. Resource Group can be LOCKED, SO THAT YOU DO NOT DELETE IT BY MISTAKE
6. Resource Group can be marked "READ-ONLY" so that after project completes, no one can change anything in the Resource Group
7. Every Resource Group has Region, why? Because Resource Group is basically a JSON File, this file has be stored somewhere, that is why Region is used in RG, If my RG is in East Us, my Resources under the RG can be in different regions also, VM - Japan East, Storage - Central India.

Subscription * ⓘ MSDN Platforms

Resource group * ⓘ (New) Resource group

Create new

A resource group is a container that holds related resources for an Azure solution.

Name *

rg-client-dev

OK Cancel

Projects us the below document:

<https://docs.microsoft.com/en-us/azure/cloud-adoption-framework/ready/azure-best-practices/resource-naming>

Project details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * ⓘ MSDN Platforms

Resource group * ⓘ (New) rg-client-dev

Create new

Instance details

Virtual machine name * ⓘ vmwebserver01

Azure Limits:

All People - Developer, Dev-Ops, Admin, DB, Architect - Customer ask this

<https://docs.microsoft.com/en-us/azure/azure-resource-manager/management/azure-subscription-service-limits>

Subscription limits

The following limits apply when you use Azure Resource Manager and Azure resource groups.

Resource	Limit
Subscriptions associated with an Azure Active Directory tenant	Unlimited
Coadministrators per subscription	Unlimited
Resource groups per subscription	980
Azure Resource Manager API request size	4,194,304 bytes
Tags per subscription ¹	50
Unique tag calculations per subscription ²	80,000
Subscription-level deployments per location	800 ³
Locations of Subscription-level deployments	10



Preference for Training

1. East US
2. West US
3. Central US
4. Japan East
5. North Europe
6. Australia East
7. Central India
8. South East Asia

100% EXAM question, Interview Question

Availability options ⓘ

Security type ⓘ

Image * ⓘ

Run with Azure Spot discount ⓘ

Size * ⓘ

No infrastructure redundancy required

No infrastructure redundancy required

Availability zone

Physically separate your resources within an Azure region.

Virtual machine scale set

Distribute VMs across zones and fault domains at scale

Availability set

Automatically distribute your VMs across multiple fault domains.

Availability options ⓘ

Security type ⓘ

Image * ⓘ

Run with Azure Spot discount ⓘ

Size * ⓘ

No infrastructure redundancy required

No infrastructure redundancy required

Availability zone

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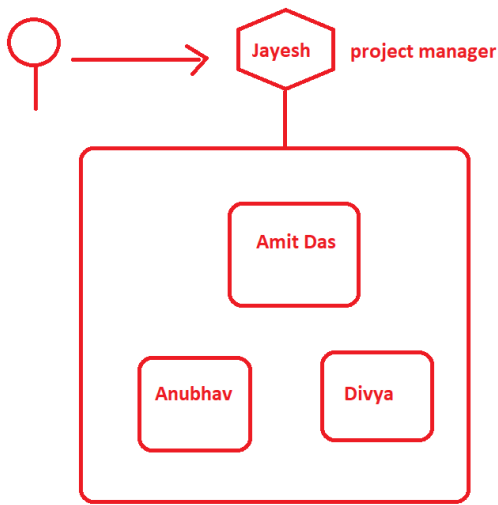
This option is used when your region has only 1 Datacenter
VMs are kept on RAC - 1RC - 1 VM, 2nd RAC - 2nd VM, 3rd RAC - 3 VM - 99.95%

I dont care on Availability, if my VM goes down, i dont care.

This option is only seen where there 3 Datacenters - Central US, East US etc - 99.99% SLA - DC1, DC2, DC3



DATACENTER = AVAILABILITY ZONE



Availability set

When the region does not have 3 Datacentres, but still you want **Availability** - Something is better than nothing.

Instance details

Virtual machine name * ⓘ

Region * ⓘ

Availability options ⓘ

Availability set * ⓘ

Security type ⓘ

Image * ⓘ

Run with Azure Spot discount ⓘ

No infrastructure redundancy required

Availability zone ⓘ

Physically separate your resources within an Azure region.

Virtual machine scale set

Distribute VMs across zones and fault domains at scale

Availability set

Automatically distribute your VMs across multiple fault domains.

Availability options ⓘ

Availability set * ⓘ

[Create new](#)



Create availability set ×

Group two or more VMs in an availability set to ensure that at least one is available during planned or unplanned maintenance events. [Learn more](#)

Name *

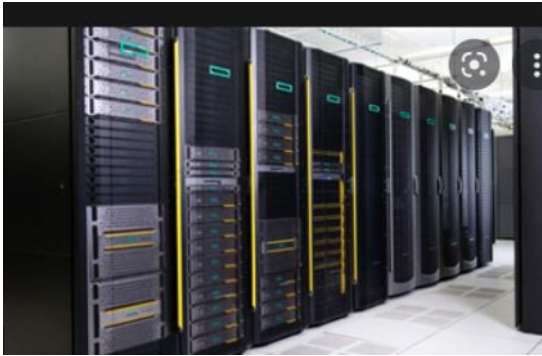
Fault domains ⓘ

Update domains ⓘ

Use managed disks ⓘ

☐ No (Classic) ☒ Yes (Aligned)

Faulty Domain - RAC - HOW MANY RAC YOU WANT, 1 RAC, 2 RAC, 3 RAC



3 RAC			2 RAC	
RAC1	RAC2	RAC3	RAC1	RAC2
VM01	VM02	VM03	VM01	VM02
VM04	VM05	VM06	VM03	VM04
VM07	VM08	VM09	VM05	VM06
VM10			VM07	VM08
			VM09	VM10
TOTAL			10	
AVAILABLE			3	

3 RAC			2 RAC	
RAC1	RAC2	RAC3	RAC1	RAC2
VM01	VM02	VM03	VM01	VM02
			VM03	
TOTAL			10	
AVAILABLE			10	

Interview Question:
What is Fault Domain

How many Fault Domain can we have?
Availability Set - 3
Virtual Machine Scale Set - 100

Create availability set

Rahul V Joshi

✕

Group two or more VMs in an availability set to ensure that at least one is available during planned or unplanned maintenance events. [Learn more](#)

Name *

webseverset

✓

Fault domains ⓘ

3

✖ The maximum platform fault domain count in the selected subscription and location is 2.

Update domains ⓘ

10

Use managed disks ⓘ

No (Classic)

Yes (Aligned)

K	L	M	N	O	P	Q	R
UPDATE DOMAIN							
3 RAC				2 RAC			
RAC1	RAC2	RAC3		RAC1	RAC2		
VM01 - 1	VM02 - 2	VM03 - 3		VM01	VM02		
VM04 - 4	VM05 - 5	VM06 - 6		VM03	VM04		
VM07 - 7	VM08 - 8	VM09 - 9		VM05	VM06		
VM10 - 10				VM07	VM08		
				VM09	VM10		
TOTAL	10			TOTAL	10		
AVAILABLE	9			AVAILABLE	10		

WHAT IS UPDATE DOMAIN?

Create availability set

×

Group two or more VMs in an availability set to ensure that at least one is available during planned or unplanned maintenance events. [Learn more](#)

Name *

webseverset

✓

Fault domains ⓘ

2

Update domains ⓘ

10

Use managed disks ⓘ

No (Classic)

Yes (Aligned)

OK