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Azure Real Time Projects Training -COURSE CONTENT

Section 1: Azure IAM

- ❖ My Client, Swiggy wants to administrate their Technical Engineers as follows. They have team such as Developers, Database Admins, Linux Admins and Storage Admins. All the teams should be in two levels like L1 & L2.
- ❖ During CAB Call we confirmed with SDM Manager, their requirements is to have a “Team Leaders” group to manage all the teams. Ensure only Team Leaders group can do this User Management.

Section 2: Virtual Machine

- ❖ My Client, Nokia needs a Windows VM for Data Storage.
So Launch a VM with three Additional Disk. Disk capacities should be 10GB, 7GB, & 5GB. Duplicate the Data of 5GB disk into 8GB disk of Second VM. In that VM, Enable Remote and Web Service from anywhere. Also make the Second Server can reach any Destination point
- ❖ My Clients needs a Webserver with separate Disk for OS & Data storage. Webpage Sources should be stored under the Data Disk. Webserver should be accessed by a Static Public IP. Also they need a backup copy for this Webserver for duplicating at any situation they can multiply their Webserver by the image reference.

Section3: Storage Account

- ❖ My Clients, needs two common storage places to store Files& Folders. One container it can access by public, end-users & Storage admins. Another common storage place should be accessible privately by the Azure VMs only. Both the containers should be controlled by Policies to grant access. One container should not overwrite any files at any time and container

Section4: VNET

- ❖ My Client, TVS wants to launch their Websites publicly along with its Database Servers at the backend. Establish network connectivity between Webservers & Database Servers. Note: No need of Public Access for Database Servers Ensure Only Websites can access from Public Network.
- ❖ My Client wants to two different networks in two different regions. In one network, both sub networks should have internet access But, in another networks, one sub networks should have internet access other sub networks should not have internet access. Establish network connectivity between two different networks.
- ❖ My client need a network, in that network they are going to host only Database Servers, so they don't want expose those servers in public network directly. Also they want to reduce the usage of

Public IPs. Give solutions to implement the network with above requirements.

Section5: Load Balancer

❖ My Clients needs a Web service should run with High Availability, and access publicly with below requirements, (Public Load Balancer)

- 1 VNET with 2 subnets.
- VMs configured with Apache website.
- HTTP port should be opened
- Health check TCP 80

❖ My Client requirement is run Web service with High Availability, and clients should not access website publicly. (Private Load Balancers)

- 1 VNET with 2 subnets
- VMs configured with IIS website
- HTTP port should be opened
- Health check TCP 80

Section6: VM Scale set

❖ My Clients wants to Web services with Automatic Redundancy, if CPU utilization increases above 80%,it should increase by 2 servers, if CPU utilization decrease below 80%,it should decrease by 2 servers, the servers are Scale Out and Scale In automatically.

During Scale Out and Scale In, Monitoring team should get alerts via Email notification.

Section7: DNS

- ❖ In my client environment more than 100 servers are from same VNET. They wanted to have same DNS IP for all server. Majorly client they have centralized DNS private zone where they have all of their records. Whatever the record they have it in the private zone it should be resolved by all the servers whoever there in this VNET.

Section8: Database

- ❖ In my client environment many developers are there, they need DB servers are from same VNET of Webservers. They wanted to have postgres DB for the web servers. Majorly client they have centralized Database where they have all of their data. Whatever the data they have it will be in the database it should be accessible by all the web servers whatever in that VNET.

Section9: Azure Active Directory

- ❖ In my client environment they centralized domain users management system since they are migrating their application in the cloud. They want to enable single sign on system in the Azure cloud

Section10: Azure Backup and Recovery

- ❖ One of our Banking client asked us to setup a DR to their critical Servers with below requirements

- o RTP – Restore Time Objective – 30 mins Downtime
- o RPO – Restore Point Objective – 4hrs recent data

Section11: Azure Appservice

- ❖ In my client environment many developers are there, they need Webservers. They wanted to have DB server for the web servers. Majorly client they don't want to administrate any resources. Whatever the server side technology resources which we have in the Azure that have to be managed automatically. But web service should be accessible by all the users as usual in the internet.

Section12: Azure Powershell

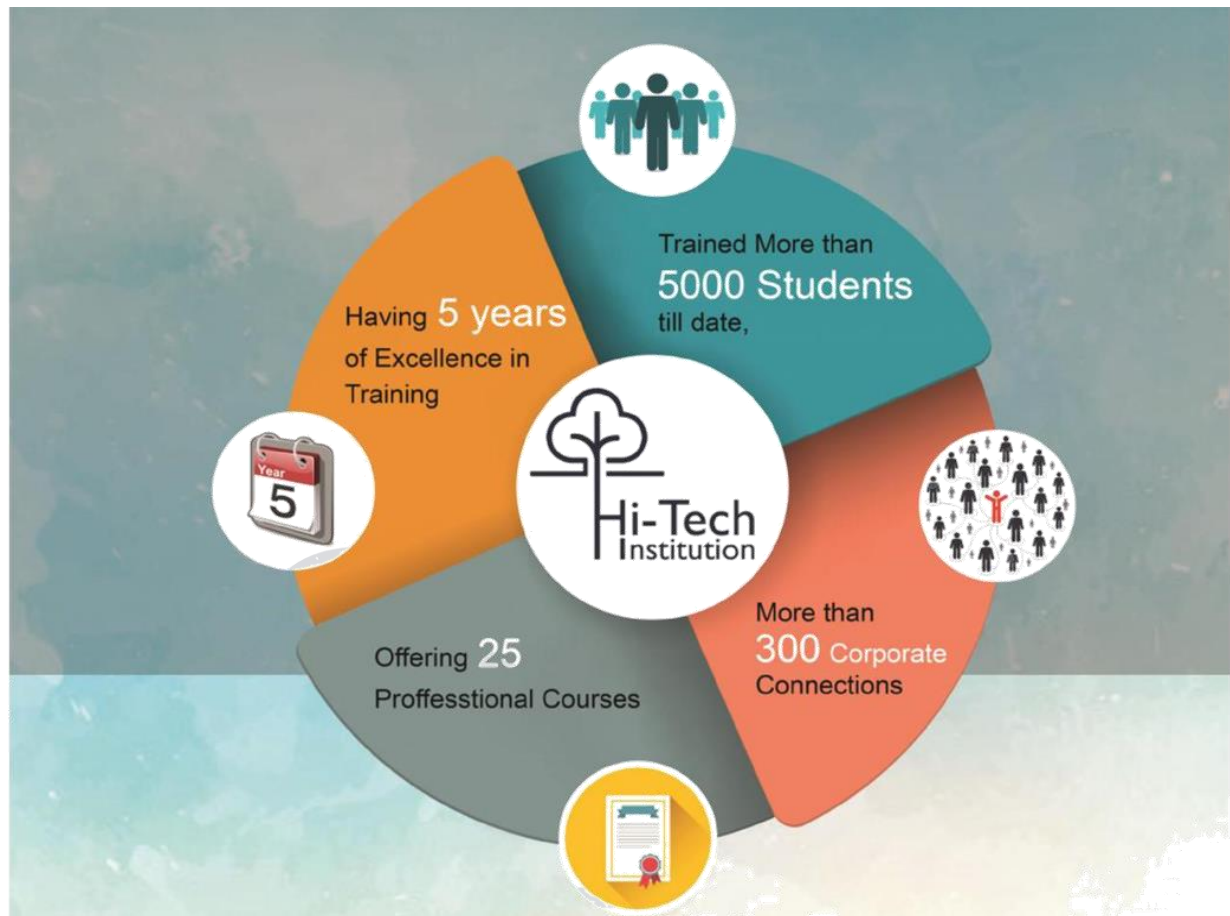
My client planning to have multiple Azure Subscriptions, future they are having a plan integrate to all the Azure Subscriptions in single Azure Account

But as of now they want to keep PowerShell templates for building resources with following requirements,

- VNET, Subnet
- Network Security Group
- NAT network

My client has multiple Azure accounts, now they want to keep PowerShell scripts for virtual machines with Public IP address build with following requirements,

- Virtual Machines
- Network Security group
- Public IP Address



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