

5.2 Demo on Cloud Computing & Job Prospects

Overview

In this subsection, we will perform demo of cloud services on Microsoft Azure. We will also understand the possible future market and job prospects with Cloud Computing.

Contents

- Intro to Azure Virtual Network
- Hands-on Activity on Virtual Network
- Hands-on Activity on Preparing Linux Virtual Machine for Development Environment.
- Market and JOB trends in Cloud

Learning Objectives

In this module, we will achieve following objectives.

- Introduction to Azure Virtual Network.
- Learning about implementation of Azure VNet.
- Understand the implementation mechanism of Linux VM.
- Understand career opportunities.

Introduction to Azure Virtual Network

Azure Virtual Network (VNet) is the fundamental building block for your private network in Azure. VNet enables many types of Azure resources, such as Azure Virtual Machines (VM), to securely communicate with each other, the internet, and on-premises networks.

Why use an Azure Virtual Network



Azure virtual network enables Azure resources to securely communicate with each other, the internet, and on-premises networks.

Why use an Azure Virtual Network

Communicate with the internet

All resources in a VNet can communicate outbound to the internet, by default. You can communicate inbound to a resource by assigning a public IP address or a public Load Balancer.

Why use an Azure Virtual Network

Communicate between Azure resources

- ✓ Through a virtual network
- ✓ Through a virtual network service endpoint
- ✓ Through VNet Peering

Why use an Azure Virtual Network

Communicate with on-premises resources

- ✓ Point-to-site virtual private network (VPN)
- ✓ Site-to-site VPN
- ✓ Azure ExpressRoute

Why use an Azure Virtual Network

Filter network traffic

- ✓ Network security groups
- ✓ Network virtual appliances

Why use an Azure Virtual Network

Route network traffic

Azure routes traffic between subnets, connected virtual networks, on-premises networks, and the Internet, by default. You can implement either or both of the following options to override the default routes Azure creates:

- ✓ Route tables
- ✓ Border gateway protocol (BGP) routes

Why use an Azure Virtual Network

Border gateway protocol (BGP) routes

- ✓ Deploying dedicated instances of the service into a virtual network.
- ✓ Using Private Link
- ✓ Service endpoints.

Hands-on

- **Activity:** Demo of implementation of Virtual Network

Solution

- Video to be inserted here

Hands-on

- **Activity:** Demo on Preparing Linux Virtual Machine for Development Environment.

Solution

- Video to be inserted here

Market & Job Trends in Cloud

Popularity of Cloud

- According to J P Morgan survey, 41% of IT company budget will be for cloud by 2025.
- Cloud computing is backbone of intelligent technologies.
- Remote work and Hybrid working model
- Business is easy with cloud.

Top Cloud Service Providers



Job roles in Cloud

- Cloud administrator
- Cloud architect
- Cloud engineer
- Cloud security manager
- Cloud application developer
- Cloud network engineer
- Cloud automation engineer

Conclusions

- Cloud Computing is an aspiring technology which is rapidly becoming the backbone of global IT industries.
- There are numerous opportunities to both freshers and experienced candidates in cloud domain.
- We also are now aware of different skills required and responsibilities of each cloud professional.

THANK YOU