Disadvantages of On-Premise:

1. Infra cost

Advantage

1. Full control (In terms of security, maintenance, establishment is in Enterprise hand)

Security, Trusted sources, Reliability,

Limited Flexibility which is in terms of installation of new hardware has to be a quite long process when compared with the configuration of hardware and make it available in the Cloud.

Cloud Computing:

Various Cloud Services Providers:

AWS (Amazon Web Services)

Windows Azure

Microsoft Azure

GCP (Google Cloud Computing)

IBM Cloud

Oracle Cloud

Open Shift

Alibaba

SAP Hana Cloud

Rack Space

VM Ware Cloud (V-Cloud)

About Windows Azure: The Cloud offering provided by Microsoft are limited to Windows OS.

Till this era Microsoft Built PowerShell only.

About Microsoft Azure: The Cloud Offerings provided by Microsoft are also supported for Open Source Operating System’s.

To support Open Source Operating Systems, Microsoft Expanded the support of PowerShell with a new edition called PowerShell Core.

To Deal with this kind of area, CLI, Shell, Bash, PowerShell Core also there.

Any idea about the difference between AWS, Azure and GCP (in terms of billing plan)

Azure: Per Minute

AWS: Per Minute

GCP: Per Second

Cloud Services:

Moto: Flexibility to avail Services which are required. (AS A SERVICE MODEL) BUSINESS MOTO

Different types of Cloud Services:

IAAS (Infrastructure as a service)

PAAS (Platform as a service)

SAAS (Software as a service)

FAAS (Function as a service)

DAAS (Data as a Service)

SeAAS (Security as a Service)

IDAAS (Identity and Directory Management as a Service or Identity and Access Management and as a Service) (Azure Active Directory)

Types of Cloud Offerings:

Public Cloud (Accessible to all with the defined limits by Cloud Provider)

Azure, AWS, GCP

Private Cloud (cloud is controlled by Cloud Provider and access is limited to the limited stakeholders)

Microsoft provides three different Private Clouds.

For China it is Moon Cake

For Germany it is Black Forest

For US Gov it is Fairfax

On-Premise (Data Center will be in full control of Organization)

Every IT Organization who has their own Data Center

Hybrid Cloud (On Premise + Public Cloud)

Any organization who has an account in the Public Cloud and have a data center and established connection between them.

Community Cloud (Group of Organizations)

IBM +VM Ware

Sales force

* Introduction about Azure Infrastructure as a Service (IAAS)

Any resources can be categorized in to the Infra Bucket.

Virtual Machines

Virtual Networks (Routers, switches, firewalls, NSGs, load balancers, gateways,)

* Introduction about Azure Platform as a Service (PAAS)