COMPARISON BETWEEN DIFFERENT CLOUD INITIATIVES

WHAT IS CLOUD COMPUTING ?

- Cloud computing is the delivery of computing services including servers, storage, databases, networking, software, analytics, and intelligence over the Internet to offer faster Innovation, flexible resources, and economics of scale.

- You typically only pay for cloud services you use, helping lower your operating costs, run your infrastructure more efficiently and scale as your business needs change.

- Cloud computing is the on-demand delivery of IT resources via the internet, with pay as you go pricing. Instead of buying, owning and maintaining physical data centers and servers you can access technology services, on an as needed basis from a cloud provider like Amazon Web Services.

TOP BENEFITS OF CLOUD COMPUTING

- Easy Implementation

- Global Scale

- Reliability

- Accessibility

- Security

- Cost Per Head

TYPES OF CLOUD COMPUTING

- Public Cloud – These are owned and operated by a third party cloud services providers, which deliver their computing resources like servers and storage over the internet. Microsoft Azure is an example of a public cloud.

- Private Cloud – It refers to cloud computing resources used exclusively by a single business or organisation. It can be physically located on the company's onsite data centers.

- Hybrid Cloud – It combines public and private cloud bounded together by tecnology that allows data and applications to be shared between them. It gives your business more flexibility, more deployment options and helps optimize your existing infrastructure.

AMAZON WEB SERVICES (AWS)

WHAT IS AWS ?

- Amazon Web Services is the most comprehensive and broadly adopted cloud platform, offering many featured services from data centers globally.

- It is a comprehensive, easy to use computing platform offered by Amazon.

- AWS has the most extensive global cloud infrastructure which no other cloud provider offers as many regions with multiple availability zone connected by low latency, high redundant networking.

- These makes it more faster, easier and more cost effective to move your existing application to the cloud and to build any desired application you can imagine.

GOOGLE CLOUD PLATFORM (GCP)

WHAT IS GCP ?

- Google Cloud Platform is offered by Google is a suite of cloud computing services that runs on the same infrastructure that Google uses internally for its end user products, such as Google Search, Gmail and YouTube.

- Google Cloud consists of a set of physical assets, such as computer and hard disk drive and virtual resources such as virtual machines.

- Google Cloud Platform services can be accessed by software developers, cloud administrators and other enterprise IT professionals over the public internet.

- It offers services for compute, storage, networking, big data, machine learning and internet of things, as well as cloud management, security and developer tools.

MICROSOFT AZURE

WHAT IS MICROSOFT AZURE ?

- Microsoft Azure formerly also known as Windows Azure, is a Microsoft public cloud computing platform. It is an expanding set of cloud based computing services available to business, developers, government agencies, and anyone who wants to build an app or run an enterprise without having to manage hardware.

- Azure virtual machines run all of Microsoft server products as well as a wide range of third party products including linux distribution and third party software.

- It also includes comprehensive collection of services that developers can use to build cloud based apps.

- It provides software as a service (SaaS), platform as a service (PaaS), and infrastructure as a service (IaaS) and supports many different programming languages, tools and framework.

Topic	Amazon Web Services	Google Cloud Platform	Microsoft Azure
Virtual Servers	Instances	VM Instances	VMs
Platform as a Service	Elastic Beanstalk	App Engine	Cloud Services
Serverless Computing	Lambda	Cloud Function	Azure Function
Docker Management	ECS	Container Engine	Container Services
Kubernetes Management	Eks	Kubernetes Engine	Kubernetes Service
Object Storage	S3	Cloud Storage	Block Blob
Archive Storage	Glacier	Coldline	Archive Storage
File Storage	EFS	ZFS / Avere	Azure Files
Global Content Delivery	Cloudfront	Cloud CDN	Delivery Network
Managed Data Warehouse	Redshift	Big Query	SQL Warehouse

THANK YOU