MIRACLE
SOFTWARE SYSTEMS

CLOUD COMPUTING

Mounika Korrakuti

Cloud Research Associate
Miracle Software Systems, Inc.
mkorrakuti@miraclesoft.com

Varalakshmi Lokam

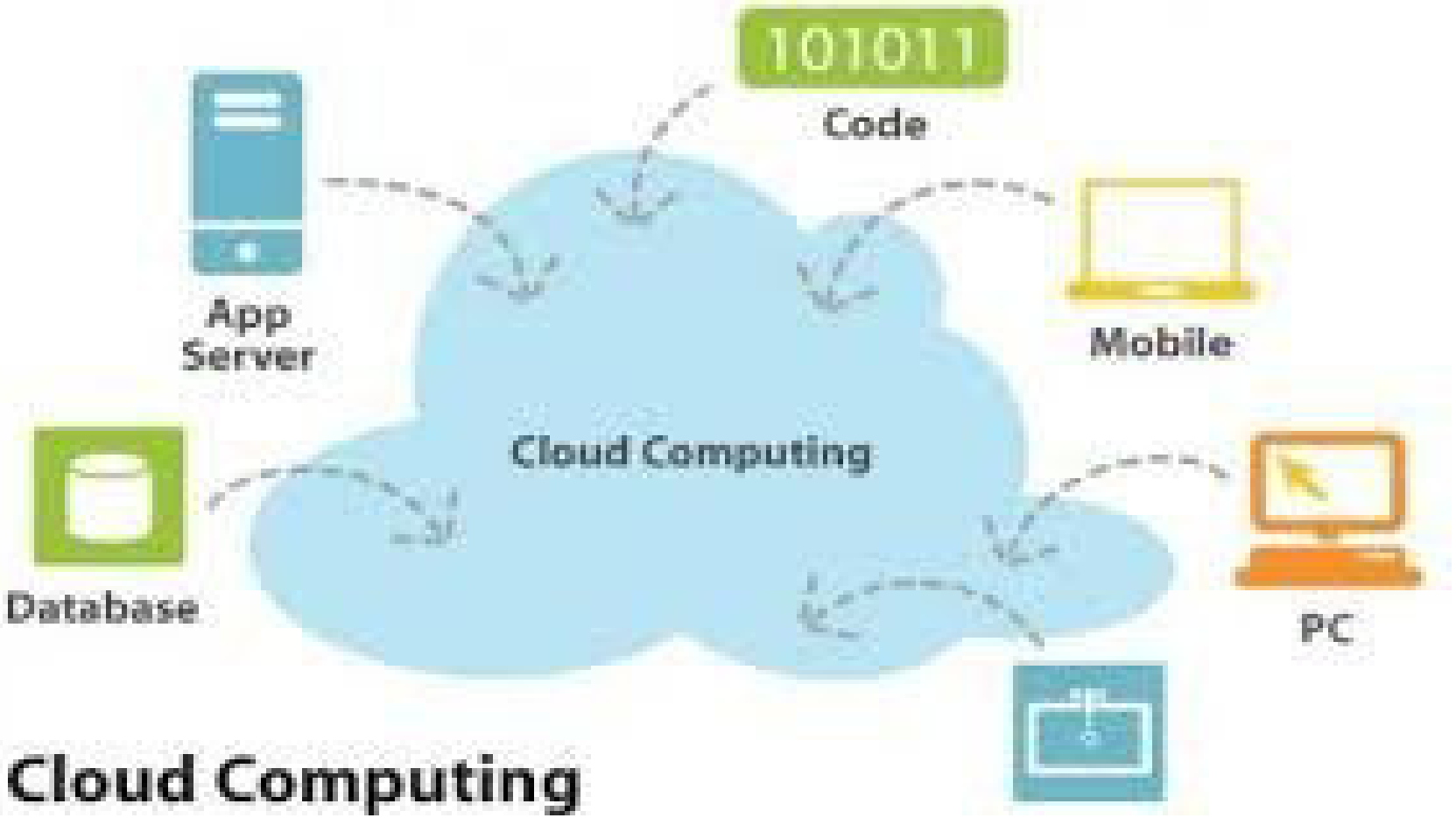
EDI Developer
Miracle Software Systems, Inc.
vlokam@miraclesoft.com

Agenda

- What is Cloud ?
- Cloud Service Models
- Types Of Cloud
- On-premise data centers Vs Cloud data centers
- Amazon Web Services
- Services in AWS
- Microsoft Azure and Services

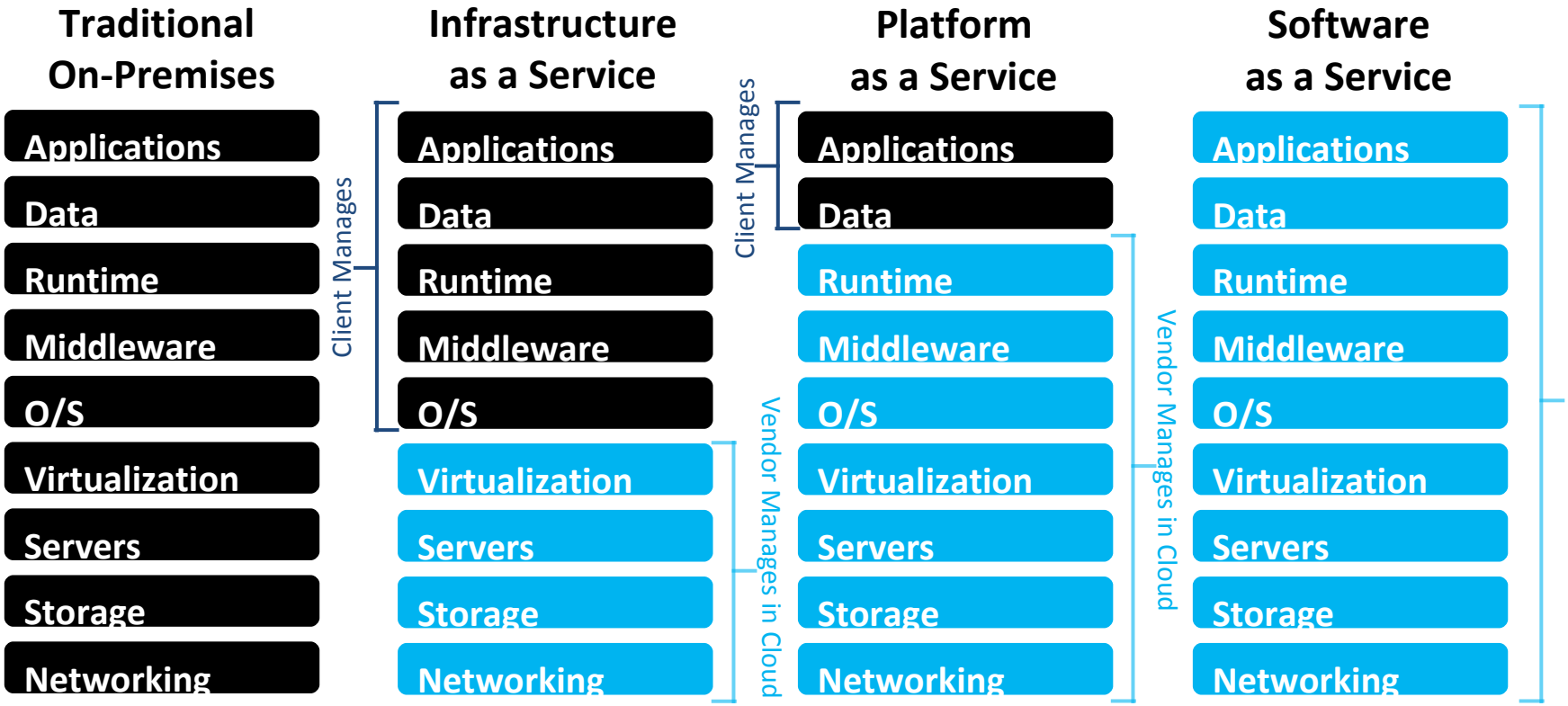
What is Cloud ?

The term Cloud refers to a Network or Internet. In other words, we can say that Cloud is something, which is present at remote location. Cloud can provide services over public and private networks, i.e., WAN, LAN or VPN



Cloud Computing

Cloud Service Models



Types Of Cloud

- **Public Cloud**: The public cloud allows systems and services to be easily accessible to the general public. Public cloud may be less secure because of its openness.
- **Private Cloud**: The private cloud allows systems and services to be accessible within an organization. It is more secured because of its private nature.

- **Community Cloud**: The community cloud allows systems and services to be accessible by a group of organizations.
- **Hybrid Cloud**: The hybrid cloud is a mixture of public and private cloud, in which the critical activities are performed using private cloud while the non-critical activities are performed using public cloud.

MIRACLE
SOFTWARE SYSTEMS

Amazon Web Services

Amazon Web Services

Amazon Web Services (AWS), is a collection of remote computing services, also called web services, that make up a cloud-computing platform offered by Amazon.com.

AWS Foundation Services

Services in AWS

- Compute

  a)Elastic Compute Cloud

  b)AWS Lambda

- Storage

  a)Simple,Storage,Service

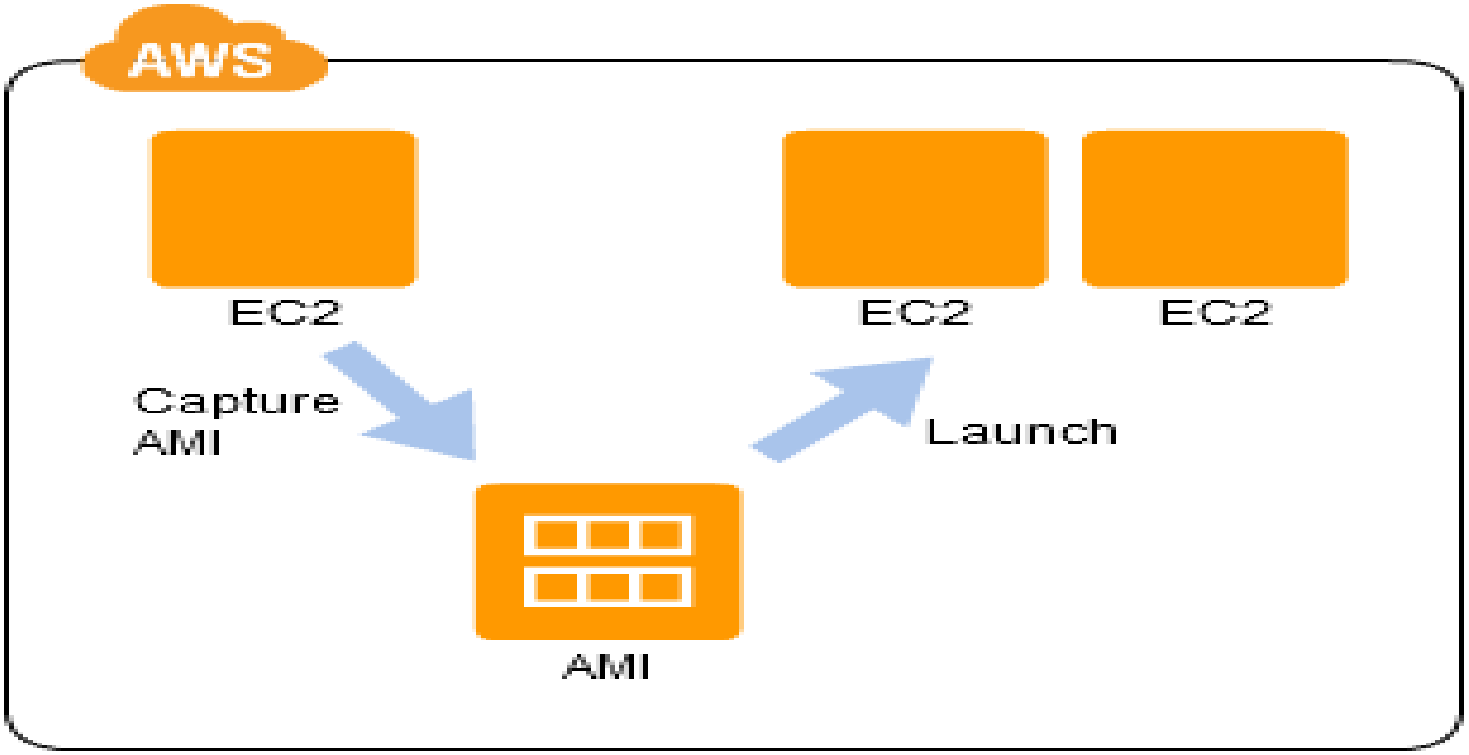
  b)Glacier

  c)Import Export and Storage Gateway

- IAM(Identity and Access Management)

Compute

1)EC2:Used to create Instances.

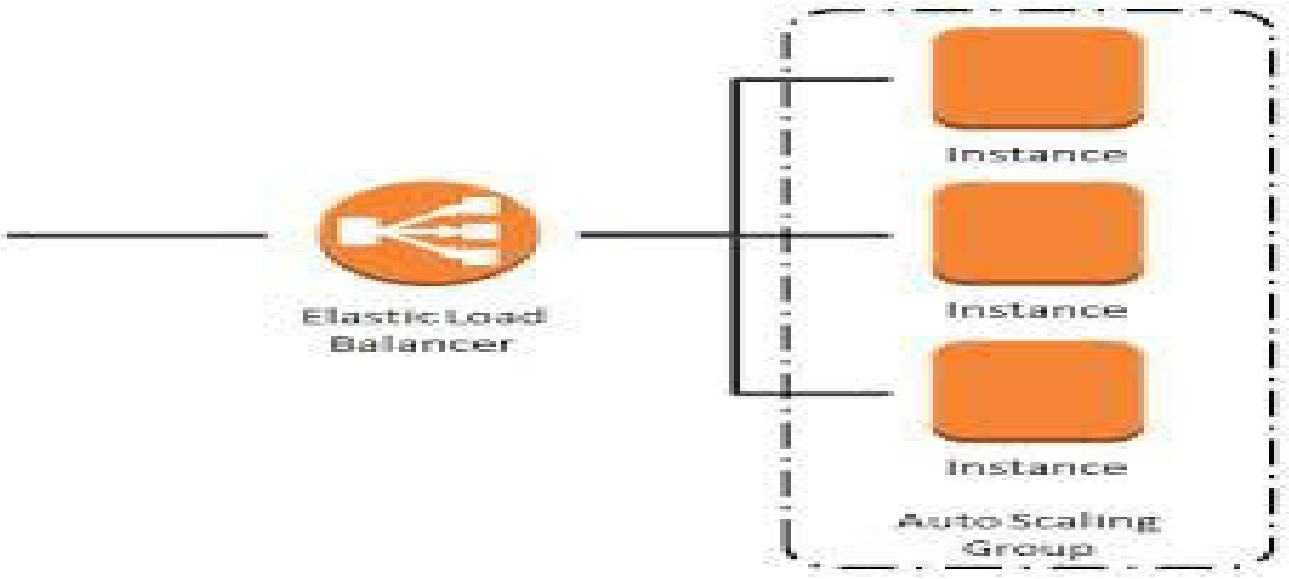


a)Auto Scaling :

-Used for scaling Instances(Servers)

b)Elastic Load Balancer:

-Acts as a traffic manager.

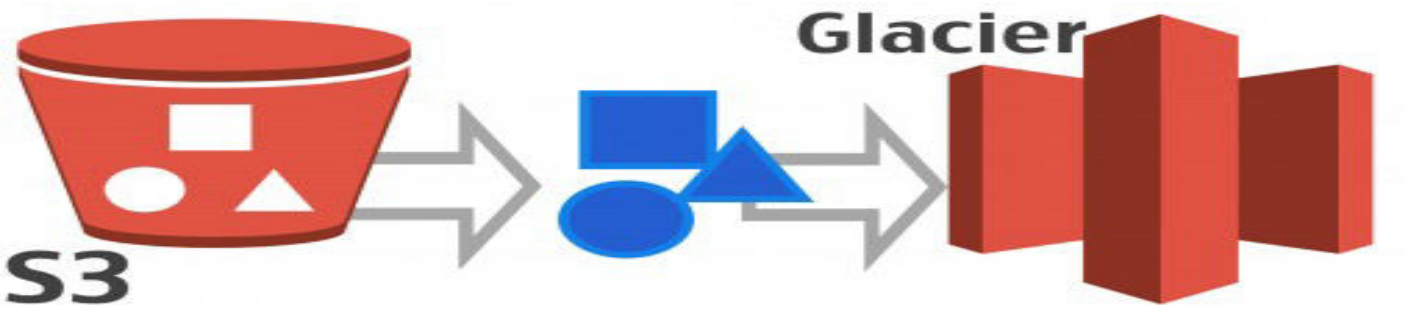


2)Lambda:It is used to run the code without provisions and managing servers . The languages supported to run code are java and node.js.

Storage

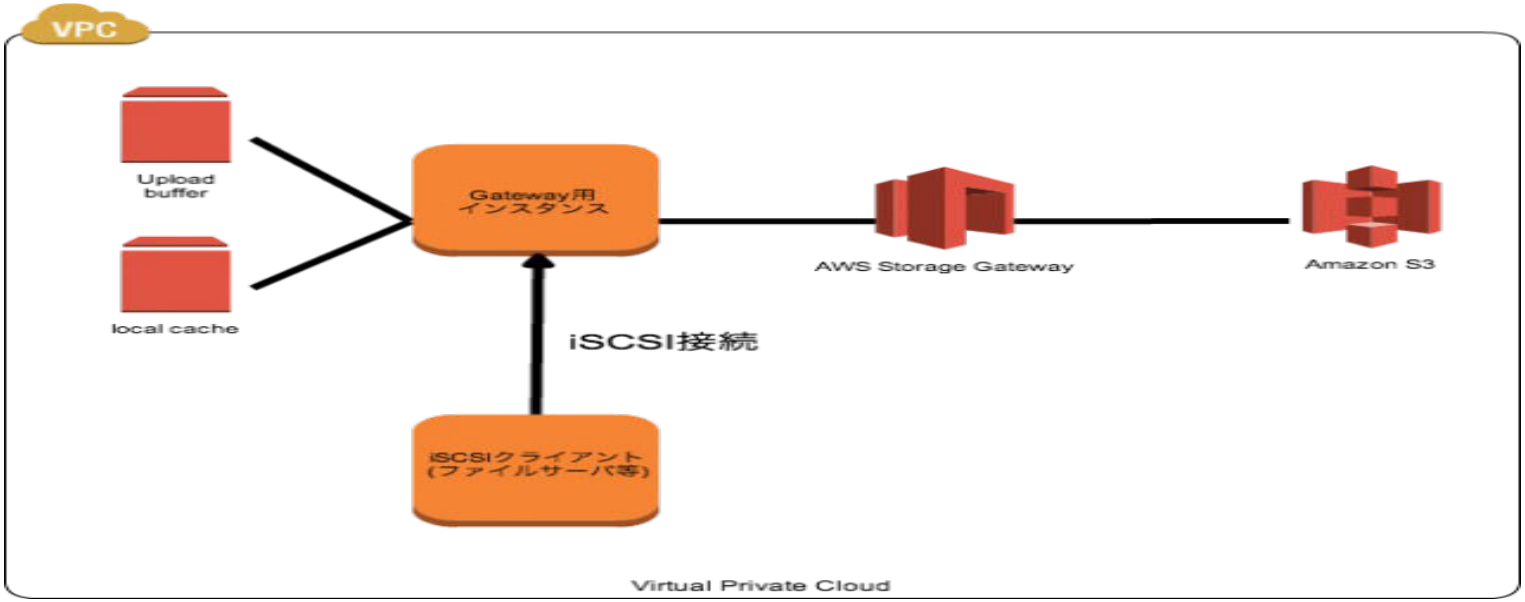
1)S3(simple,service,storage):It is used to store and retrieve any amount of data at any time and anywhere .S3 stores data as objects and objects are stored in folders and folders in buckets

2)Glacier:It is used to zip huge amount of data in to a file.



3)Import and Export: Used to import and export large files.

4)Storage gateway: It is used to import data,files etc from on-premix to cloud



Identity Access Management

- Used to create

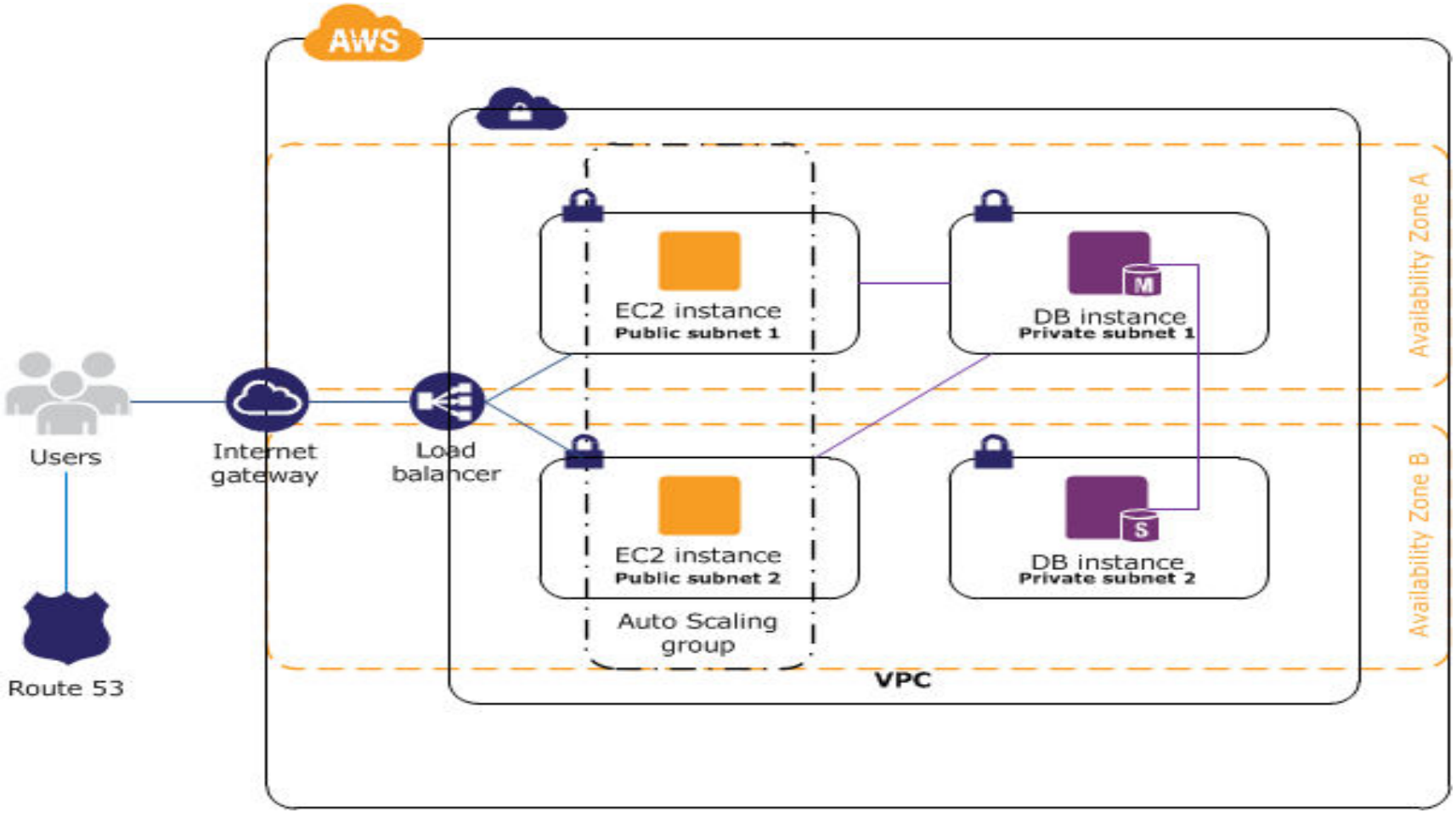
  USERS

  GROUPS

  ROLES

In Our Scenario

Example



MIRACLE
SOFTWARE SYSTEMS

Microsoft Azure

Cloud for Enterprise

Microsoft Azure

Microsoft Azure(formerly Windows Azure before 25 March 2014) is a cloud computing platform and infrastructure, created by Microsoft, for building, deploying and managing applications and services through a global network of Microsoft managed data centers.

Why Azure ?

- Use an Open and flexible platform
- Extend your existing
- Scale As You Need and Pay As You Go
- Protect your data
- Run your Apps anywhere
- Make smarter decision
- Rely on Trusted cloud

Azure Services

- Compute
- Network
- Storage
- Security

Compute

Azure provides different hosting models for running applications. Each one provides a different set of services, and so which one you choose depends on exactly what you're trying to do.

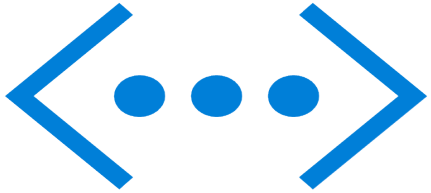
Virtual machines

Cloud services

Web sites

Network

Connections to the Data center can be possible by below services



Virtual Network

Express Route

Traffic Manager

Storage

Applications need data, and different kinds of applications need different kinds of data

Queues

Tables

Blobs

Security

Data held on systems is valuable and critical to the business. Security is always an important factor

Active Directory

Multi-Factor Authentication

Any Queries

Thank You

Finally, I'd like to finish by thanking you (all) for your attention.