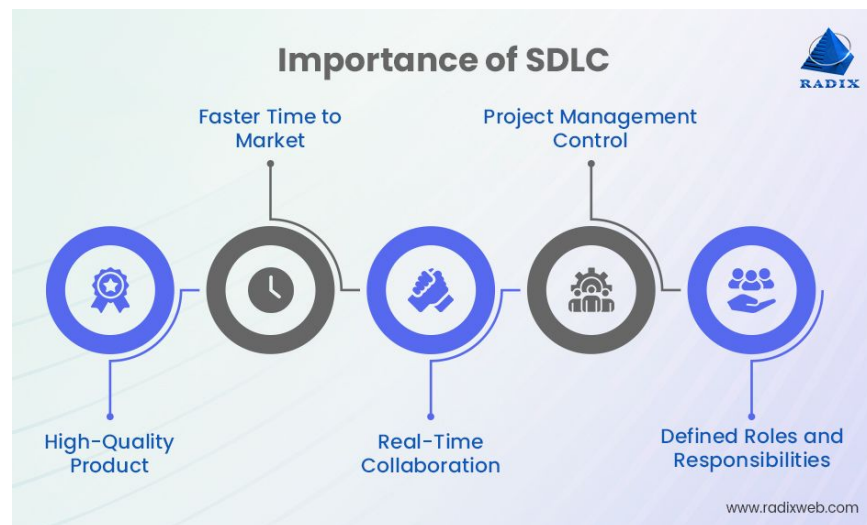# Azure Assignment

1. What is sdlc? why it is important

SDLC Software Development life cycle is an Application life cycle management methodology to give client an end to end solution to exceeds all expectations and demands

2. phases of SDLC and each phase importance

There are Seven phases of sdlc

Planning. The planning phase involves project and product management.

Requirements. The client must communicate with tech teams to convey their requirements for new development and enhancement.
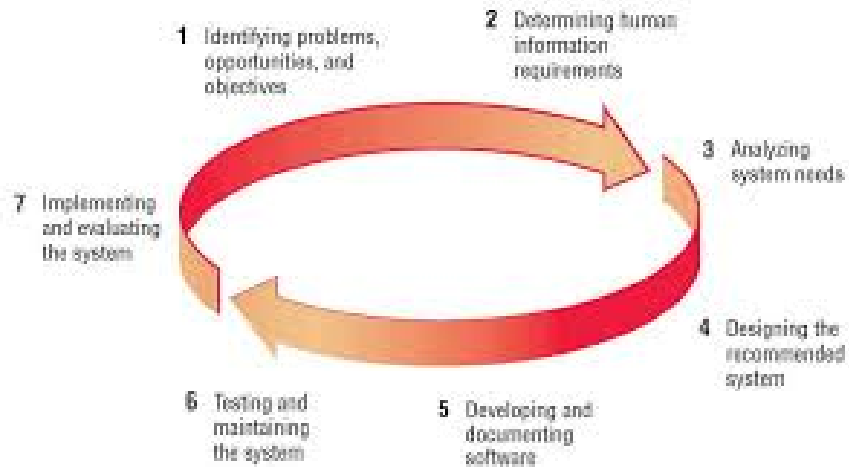
Design and prototyping.

Software development.

Testing.

Deployment.

Operations and maintenance.
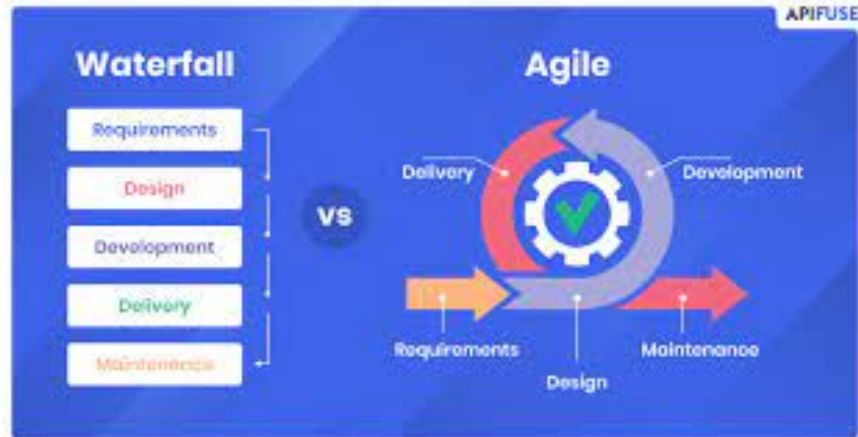
3. Different models in sdlc and famous among them

6 effective SDLC models:

- Waterfall Model.

- V-Shaped Model.

- Iterative Model.

- Spiral Model.

- Big Bang Model.

- Agile Model.

- Famous among them was

- waterfall and agile Models

4. What is waterfall and agile Model
   Waterfall Model - It is a linear system of working that requires the team to complete each project phase before moving on to the next one

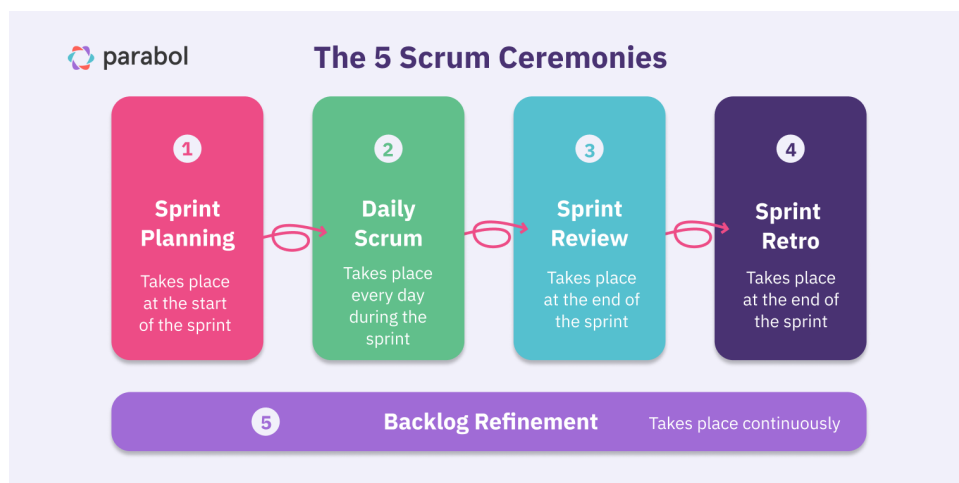Agile Model - It encourages the team to work simultaneously on different phases of the project.

5. What is agile and Devops

Agile Model- It is about how to develop and deliver software

DevOps - It describes how to continuously deploy code through the use of modern tools and automated processes.
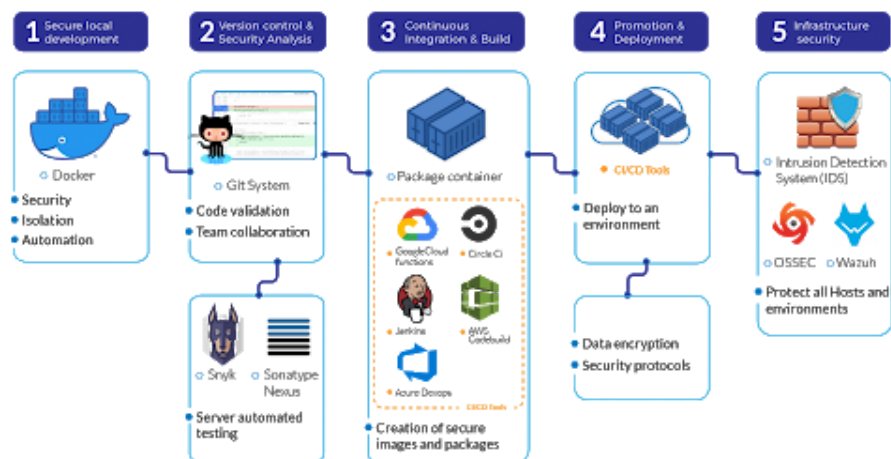
6. What are agile Ceremonies

- Sprint Planning.
- Daily Scrum.
- Sprint Review.
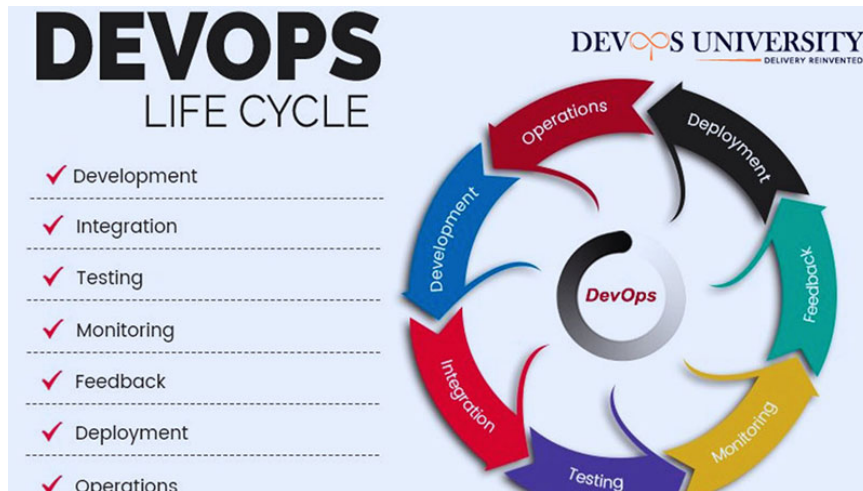- Sprint Retrospective.
- Backlog Refinement.

7. what are the different tools you use in devops as per the sdlc

- Jenkins:
- Bamboo
- Docker:
- Ansible:
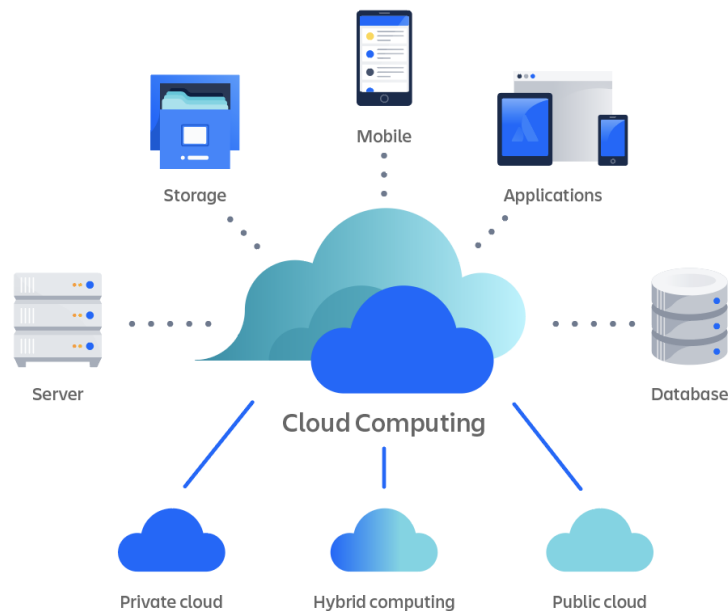- Github.
- Nagios.
- Selenium HQ.
- Gradle.

8. What is devops and its lifecycle

Devops it's an combination of development and operations of software
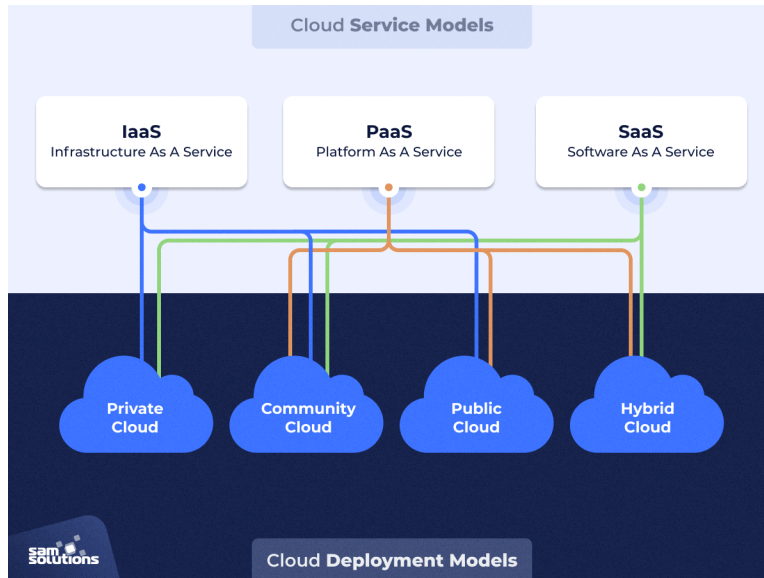
9. What is cloud computing

Cloud Computing was virtualization-based technology that allows us to create, configure, and customize applications via an internet connection

10. What are service model and deployment models in cloud computing

Cloud service delivery models: The three basic types are SaaS, IaaS, and PaaS.

 Cloud deployment models: The four basic types are **Public, Private, Community, and Hybrid**.

Cloud Service Models / Cloud Deployment Models

11. What is iaas, saas,paas, try to get some example service

IaaS:- I**nfrastructure-as-a-service ,**
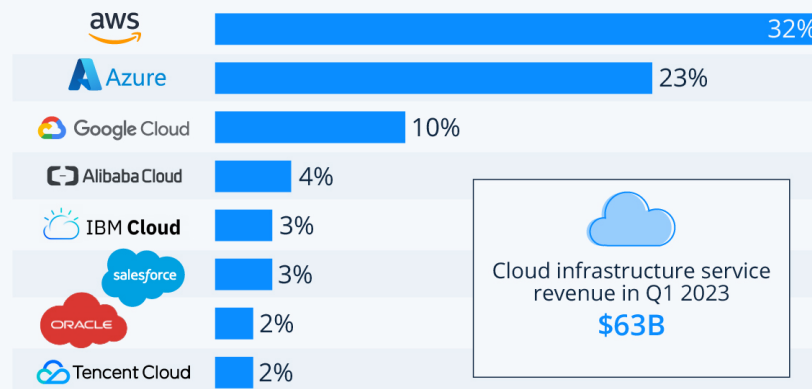
PaaS:- **platform-as-a-service**

SaaS:- **software-as-a-service**

12. What are different models which is available in cloud computing

Big Three Dominate the Global Cloud Market

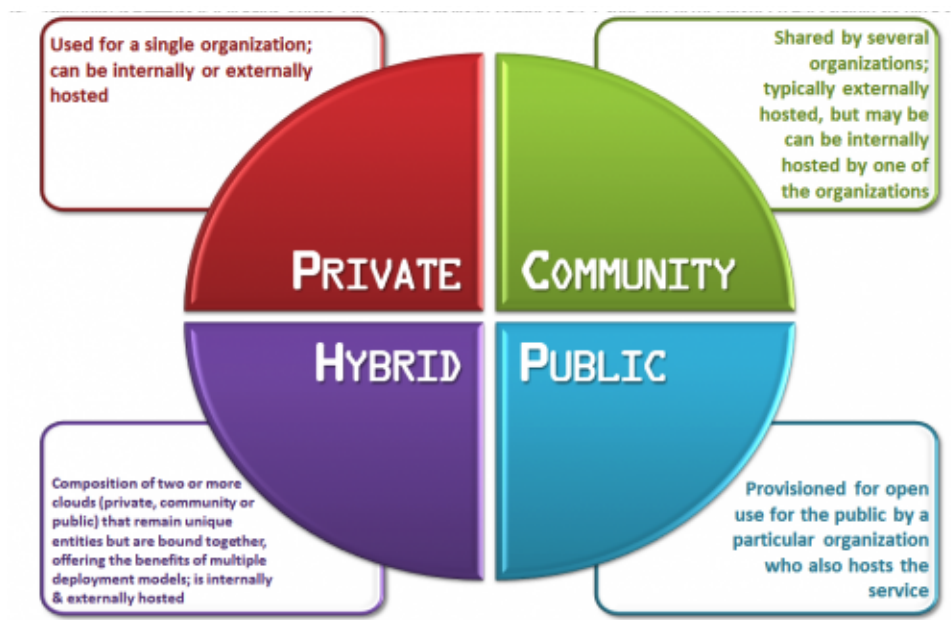Worldwide market share of leading cloud infrastructure service providers in Q1 2023*

* includes platform as a service (PaaS) and infrastructure as a service (IaaS) as well as hosted private cloud services
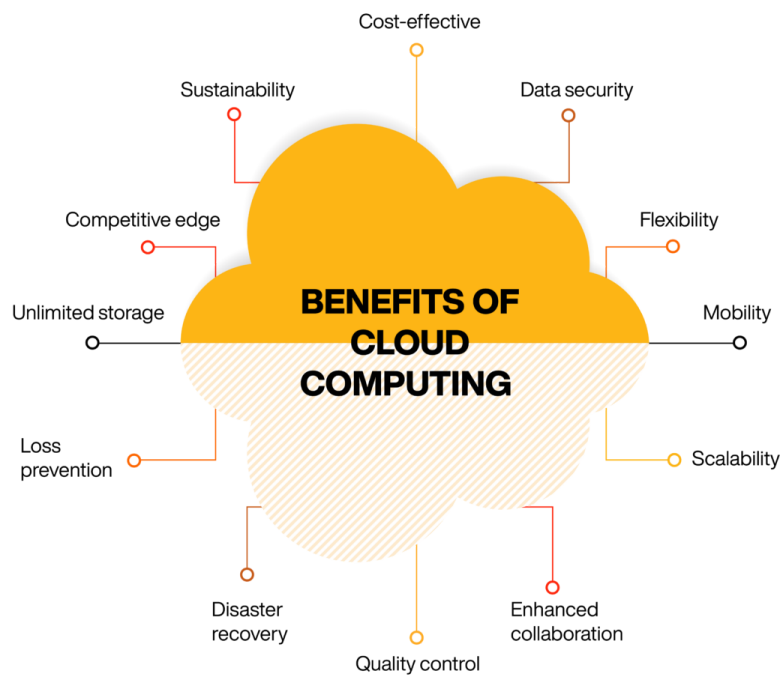Source: Synergy Research Group

13. explain of **public, private, community, and hybrid**
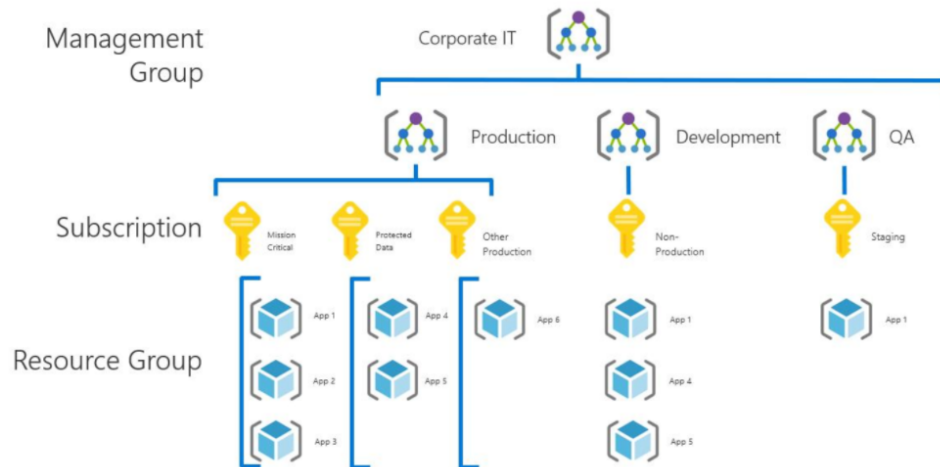

14. What are the benefits of cloud computing

Cost Savings

Security

Flexibility

Mobility

Insight

Increased Collaboration

Quality Control

Disaster Recovery

Loss Prevention

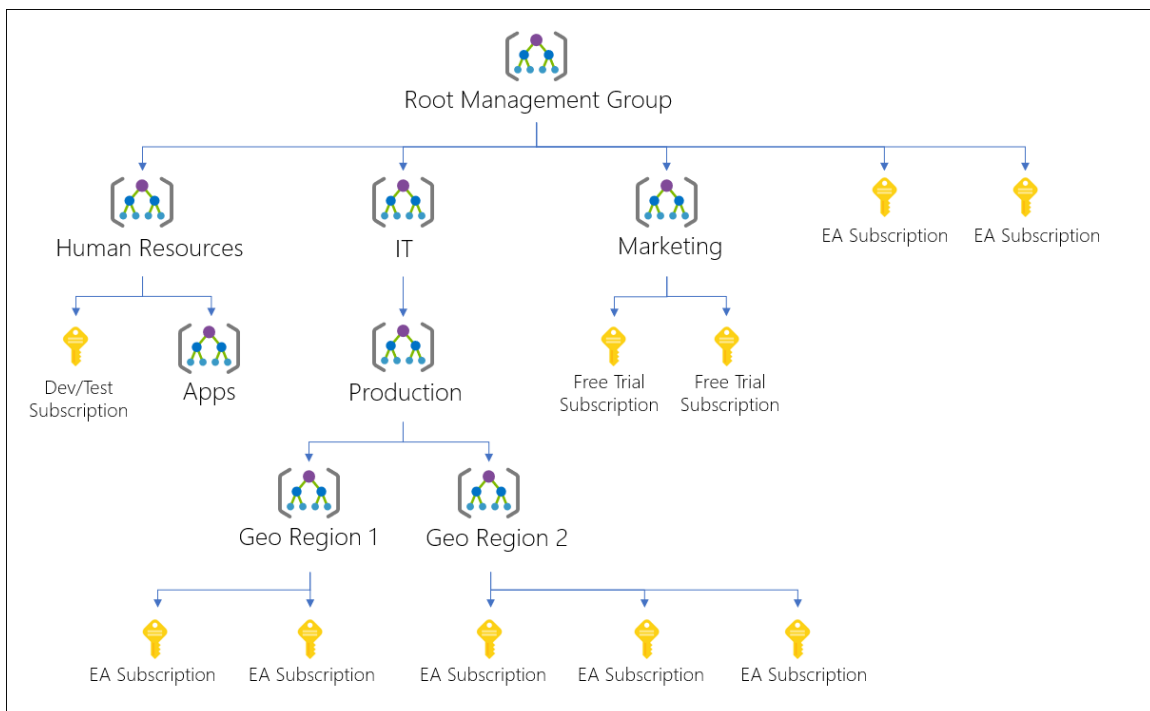Automatic Software Updates

Competitive Edge

Sustainability

15. What is hierarchy of Azure resources

Management levels and hierarchy. Azure provides four levels of management: **management groups, subscriptions, resource groups, and resources**
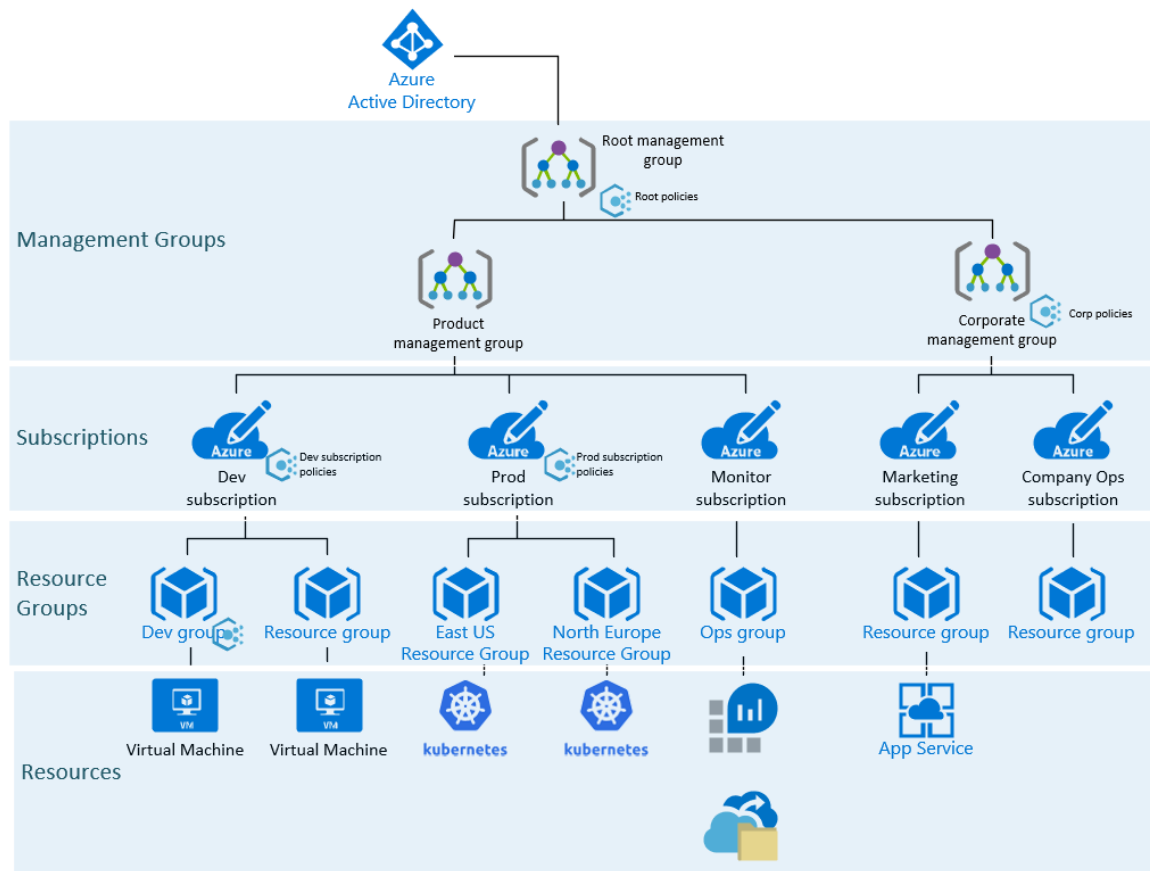
16. What is management group

Azure management groups **provide a way for an organization to control and manage access, compliance, and policies for their subscription within their tenant**

17. What is Resource Group

Resource Group in Azure is **the way to group a number of resources that help in multiple ways like automatic monitoring, access control, etc**

18. What is Active Directory

Azure Active Directory (Azure AD) **is Microsoft's multi-tenant enterprise cloud-based identity and access management (IAM) solution**

19. what is resource

An Azure resource is a billable entity, such as a virtual machine instance or storage account