

In this segment

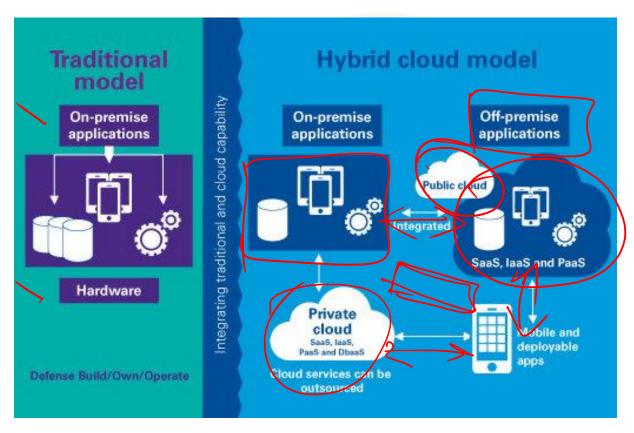
Hybrid Cloud & Multi Cloud Architectures

- Hybrid Cloud
- Multi-cloud architecture
- Load balancer in cloud ELB



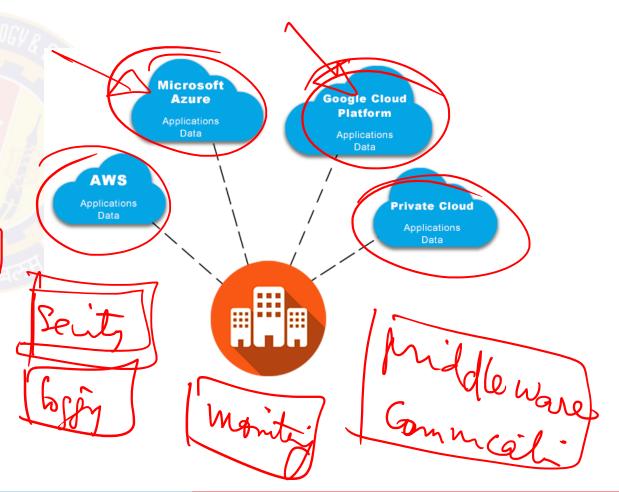
Hybrid Cloud

 Hybrid cloud has part of an enterprise's computing is provided by a separate cloud provider and part is done in house



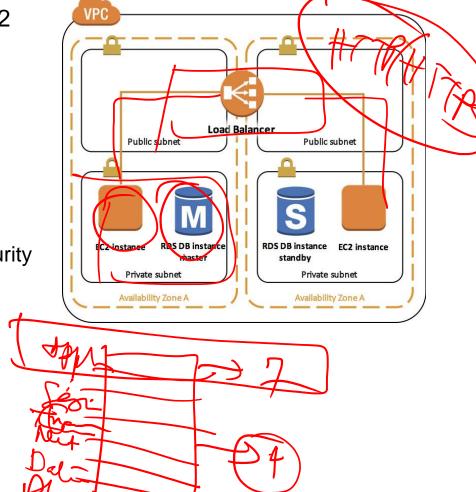
Multi Cloud

- Multi cloud setup has an enterprise utilizing services of multiple cloud service providers in tandem (optionally with their on-prem traditional infra or private cloud)
- Advantages
 - Cost effective
 - Independence from a single provider
 - · Flexibility through choice
- Disadvantages
 - Complexity of managing affairs
 - Security is a challenge
 - Redundancy and High availability across providers



Load Balancing in Cloud – AWS Elastic Load Balancing (ELB)

- Elastic Load Balancing automatically distributes incoming application traffic across multiple targets, such as Amazon EC2 instances, containers, IP addresses, and Lambda functions
- AWS ELB has three types of loan balancing
- Application Load Balancer
 - Best suited for load balancing of HTTP and HTTPS traffic
 - Operates at request level (layer 7 of OSI
 - Network Load Balancer
 - Best suited for load balancing of Transmission Control Protocol (TCP), User Datagram Protocol (UDP) and Transport Layer Security (TLS) traffic
 - Operates at connection level (layer 4 of OSI)
 - Classic Loan Balancer
 - Provides basic load balancing across multiple Amazon EC2 instances and operates at both the request level and connection level



Load Balancing in Cloud – AWS Elastic Load Balancing (ELB) - Demo

• ELB Demo





Thank You!

In our next session:

Specialized Middleware – NoSQL Database