AWS Certified Cloud Practitioner

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1 Cloud Computing

1.1 What is

Cloud computing is the **on-demand delivery** of it resources (database storage, compute power, etc), which you can access and **provision the right type and size of computing almost instantly** and have a **pay-as-you-go** pricing.

1.2 Deployment Models of the Cloud

1. Private:

- Complete control, meet specific business needs
- Used by single organization
- Cloud owned by third-party

2. Public:

• Cloud resources owned and operated by third-party.

3. Hybrid:

 Keep the control of some servers and extend some capabilities to the Cloud

1.3 Five Characteristics of Cloud Computing (Amazon POV)

- On-demand self service: Users can provide it resources without human interaction.
- Broad network access: Can access the AWS panel from the internet.
- Multi-tenancy and resource pooling: Multiple users share the same physical resources yet their it resources are isolated with security and privacy.
- Rapid elasticity and scalability: Automatically and quickly add or remove it resources.
- Measured service: Usage is measured and you pay what you use.

1.4 Advantages of Cloud Computing

- Trade CAPEX for OPEX: Pay on-demand don't own hardware.
- Benefit from economies of scale: If more people use AWS, AWS will acquire more hardware and become more efficient, then the pricing goes lower.
- Use what you need: Scale based on actual usage measure.
- Increase speed and agility: Instance resources almost immediately.
- Globality: Instance IT resources in many geographical locations.

1.5 Problems solved by the Cloud (Business with IT needs POV)

- Flexibility: Add, remove and change IT resources when needed.
- Cost-effectiveness: Pay as-you-go.
- Scalability: Increase IT resources when receiving larger loads.
- Elasticity: Scale-in and scale-out when needed.
- High-availability and Fault-tolerant: You gotta trust AWS.
- **Agility:** Quick development process, test and launch software applications.

1.6 AWS Global Infrastructure

