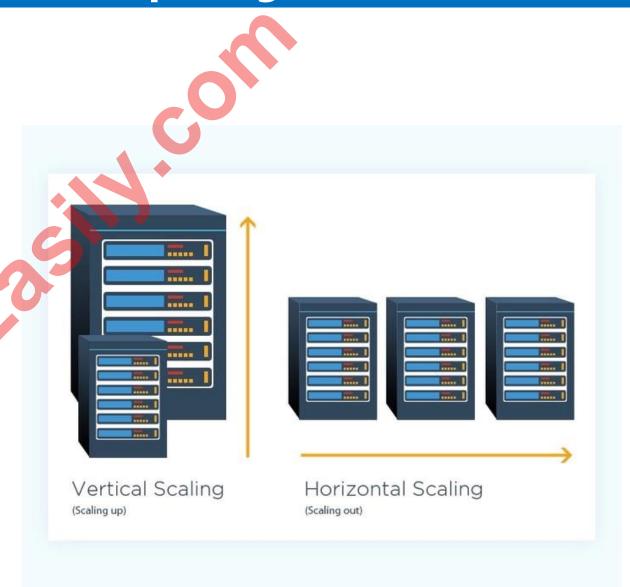
Scalability

- Ability to adjust resources to meet demand
- You aren't overpaying for services



- Ability to adjust resources to meet demand
- You aren't overpaying for services
- Varieties
 - Vertical Scaling increasing capacity of machine by adding resources to it
 - Horizontal Scaling adding more machines to distribute the load across





Scalability

High availability

- Focuses on ensuring maximum availability, regardless of disruptions
- Uptime guarantees depending on the service, part of the service-level agreements (SLAs)



Scalability

High availability

Reliability

- Ability of a system to recover from failures and continue to function
- Resources are deployed across regions



Scalability

High availability

Reliability

Predictability

- We can easily predict and plan performance and cost
- Performance predictability focuses on predicting the resources needed



Scalability

High availability

Reliability

Predictability

Security & compliance

- Cloud providers invest heavily in security measures
- They implement advanced encryption, authentication, and access control mechanisms



Scalability

High availability

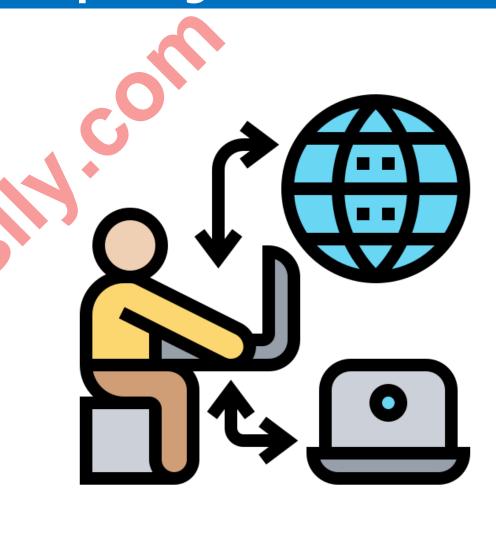
Reliability

Predictability

Security & compliance

Accessibility

 Accessible over the internet from anywhere and any device



Scalability

High availability

Reliability

Predictability

Security & compliance

Accessibility

Always Up to Date

 They handle software updates, security patches, and maintenance tasks for the underlying infrastructure

Scalability

High availability

Reliability

Predictability

Security & compliance

Accessibility

Always Up to Date

Go Global in Minutes

Cloud services are available globally



Scalability

High availability

Reliability

Predictability

Security & compliance

Accessibility

Always Up to Date

Go Global in Minutes

Backup & Restore

 Cloud providers offer built-in data backup and disaster recovery services



Scalability

High availability

Reliability

Predictability

Security & compliance

Accessibility

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Backup & Restore

Cost Effective



- Eliminates the need for upfront investments in physical infrastructure
- Reduces hardware and maintenance costs