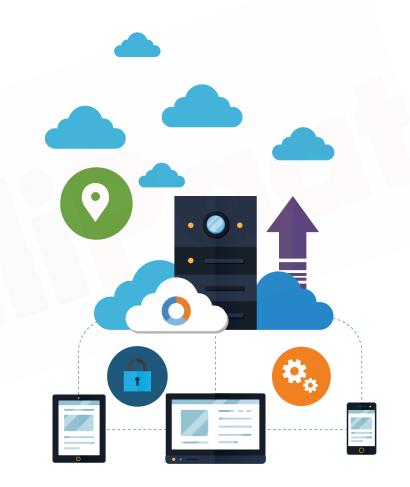


Microsoft Azure Exam for AZ-300 & 301

Introduction to Cloud Computing



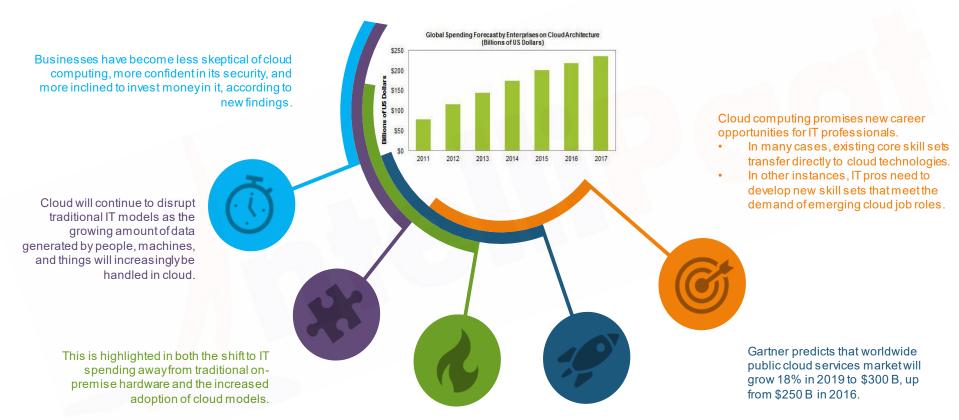
Agenda



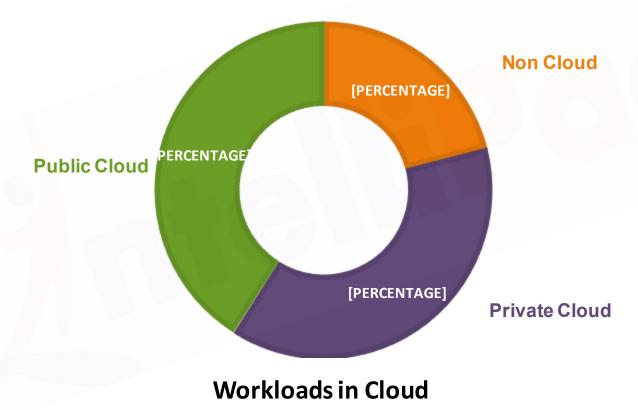
- ☐ Why Cloud Computing
 - Workloads in Cloud
 - Cloud Challenges
- Overview of Cloud Computing
 - What is Cloud Computing
 - Definition of Cloud Computing
 - On-premises vs Service Models
 - Advantages & Disadvantages of Cloud Computing
 - Traditional vs Cloud Computing
 - Security issues
 - Pricing Model
 - Use cases



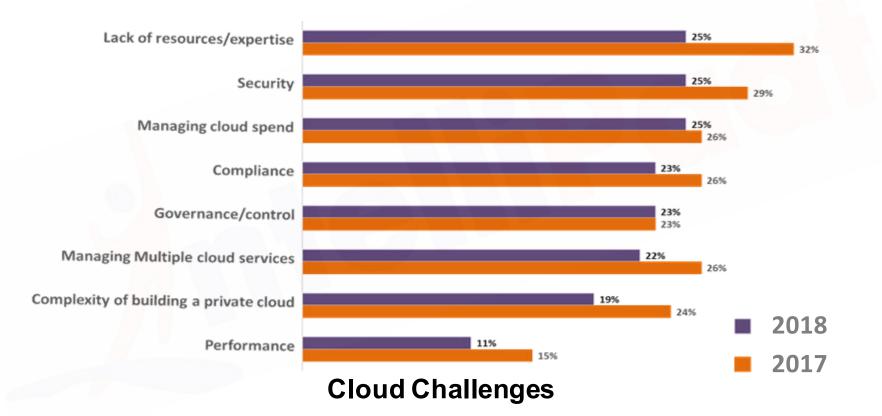














Overview of Cloud Computing

What Is Cloud Computing?



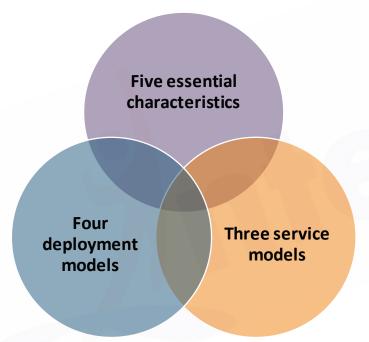


- □ Cloud computing is the delivery of computing services servers, storage, databases, networking, tools, and software over the Internet.
- □ It enables companies to consume a compute resource, such as a server, storage, or an application, as a utility like water or electricity, rather than having to build and maintain computing infrastructures in house.
- Companies offering these computing services are called cloud providers, and they charge for cloud computing services based on usage.

Cloud Computing: Definition



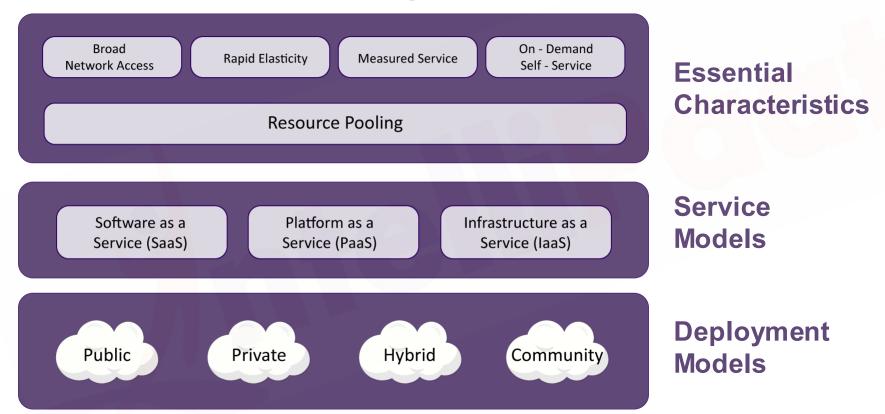
The cloud model is composed of



Cloud computing is a model for enabling ubiquitous, convenient, on-demand network access to a **shared pool** of configurable computing resources (e.g., networks, servers, storage, applications, and services) that can be rapidly provisioned and released with minimal management effort or service provider interaction.

Cloud Computing: Definition

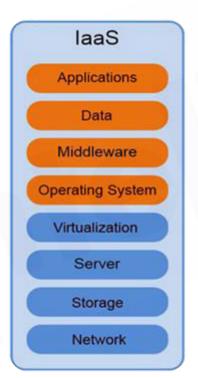


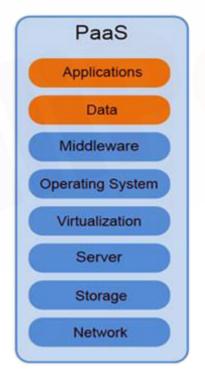




On-premises Vs. Service Models











Advantages and Disadvantages

Advantages Flexibility Downtime Availability Vulnerability to attack **Accessibility** Security Scalability Multi-tenancy **Disaster recovery** Cost of ownership Metered services

Disadvantages



Traditional Vs. Cloud Computing

Buying			
 l 1.	Money up-front		
2.	Road taxes		
3.	Ownership		
4.	Maintenance cost		
5.	Insurance cost		
6.	Driver cost (optional)		
7.	Fuel cost		
8.	Repair		

-		-
1.	Money as per usage	
2.	No other charges	
3.	Price	
4.	Affordability	
5.	Upgrade the car type	
6.	Dedicated or shared	







Security Issues

Data Breach

Access Management Insecure Interfaces Account Hijacking

System Vulnerabilities

Advanced Persistent Threats Data Loss Malicious Insiders

Insufficient Due Diligence

Abuse and Nefarious Use

Denial of Service

Shared Technology Vulnerabilities

Cloud Computing Pricing Model



- ☐ Fixed Pricing includes pricing mechanism such as:
 - Pay-per-use Pricing
 - Subscription Pricing
 - Hybrid Pricing Model
 - List Pricing Model
- ☐ Dynamic Pricing is calculated based on a pricing mechanism whenever there is a request.

Туре	Service	Pricing Scheme
Pay-per-use	Azure Virtual Machine	Charges on an hourly basis for usage of instance
Subscription	Dropbox	Pricing assigned for storage in GB
Hybrid Google/App Engine		Pricing is assigned on a monthly basis If limit exceeds, then charge will be per GB and processing power on an hourly basis



Use Cases

File Storage

Email

Test and Development

Cloudbursting

Disaster Recovery

Backup

Virtual Desktop Proof of Concepts

Going Global



QUIZ



Point out the correct statement:

- A Cloud architecture can couple software running on virtualized hardware in multiple locations to provide an on-demand service.
- B Cloud computing relies on a set of protocols needed to manage inter-process communications.
- C Platforms are used to create more complex software.
- All of the mentioned.



Answer 1



Point out the correct statement:

- A Cloud architecture can couple software running on virtualized hardware in multiple locations to provide an on-demand service.
- B Cloud computing relies on a set of protocols needed to manage inter-process communications.
- C Platforms are used to create more complex software.
- All of the mentioned.





Point out the wrong statement:

A cloud cannot be created within an organization's own infrastructure or outsourced to another datacenter.

A composable component must be modular.

A composable component must be stateless.

None of the mentioned.



Answer 2



Point out the wrong statement:

- A cloud cannot be created within an organization's own infrastructure or outsourced to another datacenter.
- B A composable component must be modular.
- C A composable component must be stateless.
- None of the mentioned.





What is the full form of SaaS?

- A Storage-as-a-Service
- B Security-as-a-Service
- C Software-as-a-Service
- D Server-as-a-Service



Answer 3



What is the full form of SaaS?

- A Storage-as-a-Service
- B Security-as-a-Service
- C Software-as-a-Service
- D Server-as-a-Service





What is the full form of laaS?

- A Information-as-a-Service
- B Infrastructure-as-a-Service
- C Indexing-as-a-Service
- **D** All of the mentioned.



Answer 4



What is the full form of laaS?

- A Information-as-a-Service
- B Infrastructure-as-a-Service
- C Indexing-as-a-Service
- **D** All of the mentioned.





What is the full form of PaaS?

A Purchase-as-a-Service

B Provisioning-as-a-Service

C Pipeline-as-a-Service

D Platform-as-a-Service



Answer 5



What is the full form of PaaS?

- A Purchase-as-a-Service
- **B** Provisioning-as-a-Service
- C Pipeline-as-a-Service
- **D** Platform-as-a-Service





Hybrid cloud is

- A a third-party cloud
- B a privately accessed cloud
- **C** a publicly held cloud
- **D** a mixture of private and public cloud





Hybrid cloud is

- A a third-party cloud
- B a privately accessed cloud
- **C** a publicly held cloud
- **D** a mixture of private and public cloud





Companies fully hosted on cloud store their data in their on-premise servers.

A True

B False



Answer 7



Companies fully hosted on cloud store their data in their on-premise servers.

A True

в False















sales@intellipaat.com



24/7 Chat with Our Course Advisor