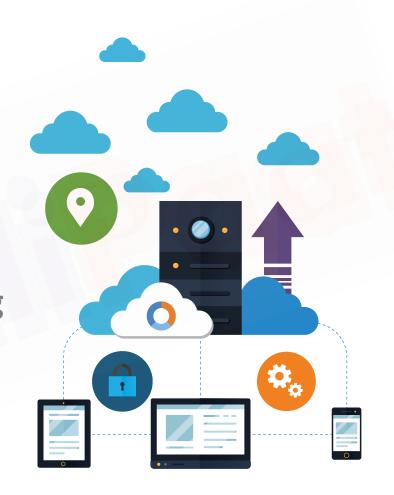


# Microsoft Azure Administrator Associate Training

**Introduction to Cloud Computing** 



# Agenda



#### ☐ Why Cloud Computing

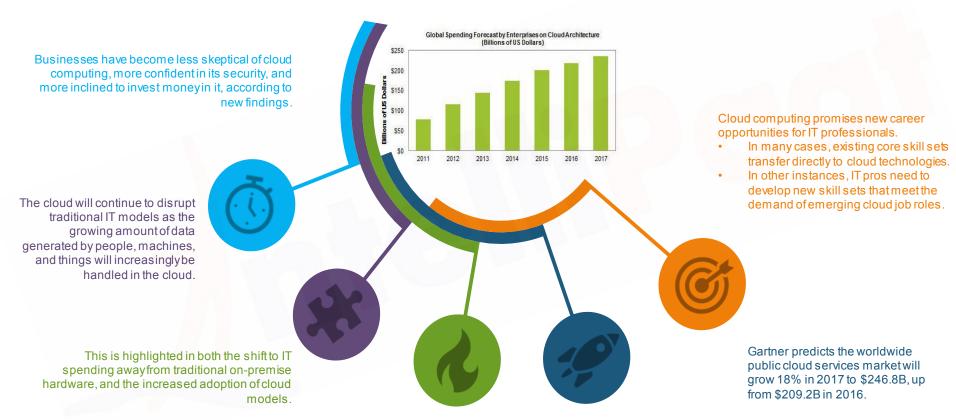
- Workloads in Cloud
- Cloud Challenges

#### Overview of Cloud Computing

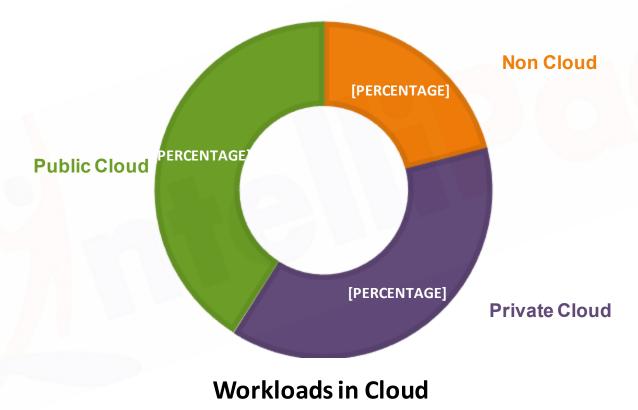
- What is Cloud Computing
- Definition of Cloud Computing
- On-premises vs Service Models
- Advantages & Disadvantages of Cloud Computing
- Traditional vs Cloud Computing
- Security issues
- Pricing Model
- Use cases



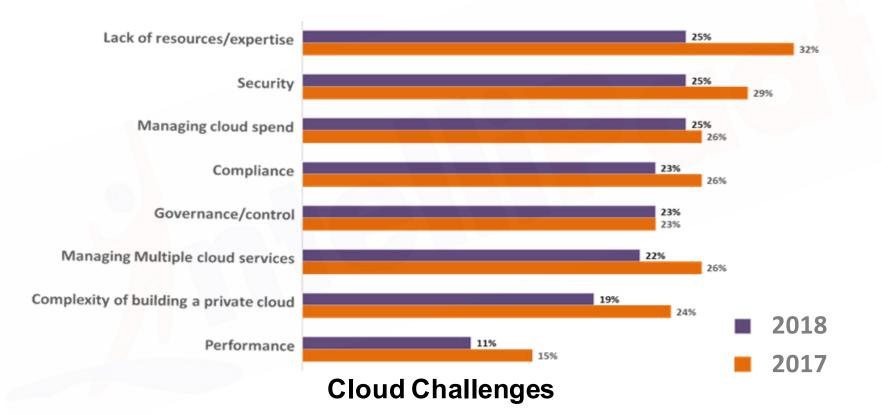














# **Overview of Cloud Computing**

# What is Cloud Computing?



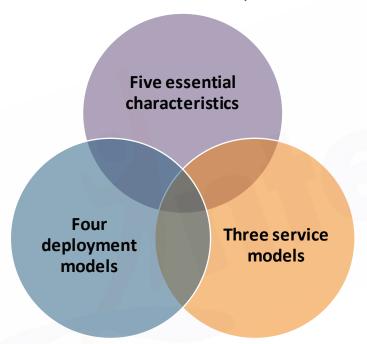


- □ Cloud computing is the delivery of computing services servers, storage, databases, networking, tools and software over the Internet.
- Cloud computing enables companies to consume a compute resource, such as a servers, storage or an application, as a utility like water or electricity, rather than 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**



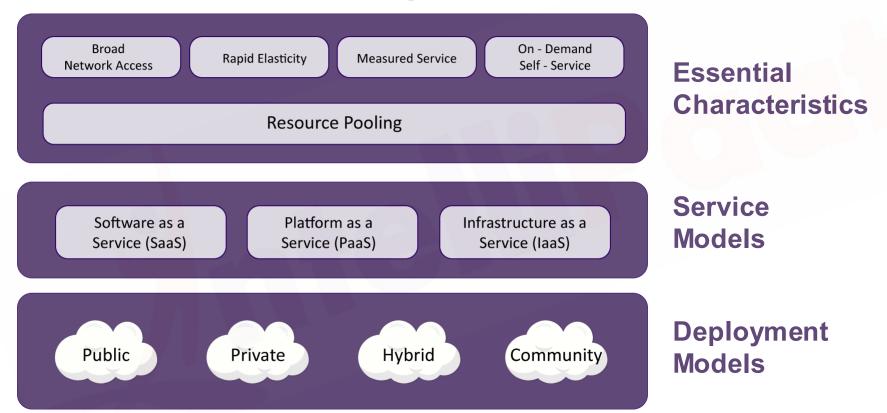
This cloud model is composed of



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.

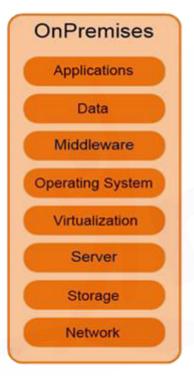
# **Cloud Computing: Definition**

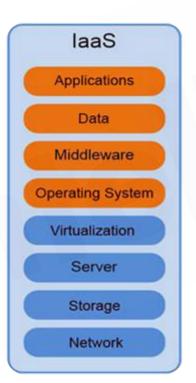


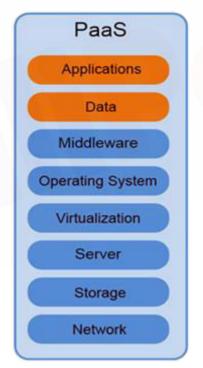




#### **On-premises vs Service Models**











#### **Advantages & Disadvantages**

Advantages

**Flexibility** 

**Availability** 

**Accessibility** 

Scalability

**Multi-tenancy** 

**Disaster Recovery** 

**Cost of ownership** 

**Metered Services** 

**Downtime** 

Vulnerability to attack

Security

Disadvantages



#### **Traditional vs Cloud Computing**

Buying			
1.	Money Up-front		
2.	Road Taxes		
3.	Ownership		
4.	Maintenance cost		
5.	Insurance Cost		
6.	Driver Cost (optional)		
7.	Fuel cost		
<b>8</b> .	Repair		

_	
1.	Money as per usage
2.	No Other charges
3.	Price
4.	Affordability
5.	Upgrade the Car type
6.	Dedicated or Share







### **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 as:
  - Pay-per-use Pricing
  - Subscription Pricing
  - Hybrid Pricing Model
  - List Pricing Model
- □ **Dynamic Pricing** is calculated based on pricing mechanism whenever there is a request.

Туре	Service	Pricing Scheme
Pay-per-use	Azure Virtual Machine	- Charges on hourly for usage of instance
Subscription	Dropbox	- Pricing assigned for stored in GB
Hybrid	Google / App Engine	<ul><li>- Price assigned on monthly basis</li><li>- If limit exceeds then charge on per GB and processing power on hourly basis</li></ul>

# Cloud Computing 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 interprocess 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 interprocess 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
- B A composable component must be modular
- C 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





## 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



## Full form of SAAS?

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





## Full form of IAAS?

- A Information-as-a-service
- B Infrastructure-as-a-service
- C Indexing-as-a-service
- **D** All of the mentioned above



# Answer 4



## Full form of IAAS?

- A Information-as-a-service
- B Infrastructure-as-a-service
- C Indexing-as-a-service
- **D** All of the mentioned above





## 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



# 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 stores their data in their on-premise servers?

A True

B False



# Answer 7



Companies fully hosted on cloud stores their data in their on-premise servers?

A True

в False















sales@intellipaat.com



24X7 Chat with our Course Advisor