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# Introduction to Cloud Computing











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Presented by Alhanouf Alkhayyal

#### What is a cloud?



ARVR

A "cloud" is a computer system that provides users with shared access to on-demand computing resources via the internet.

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## Why is it Useful?

- Resource Utilization
- Scalability and Elasticity
- Reliability through redundancy
- Cost saving



ARVR

## Cloud Service Models

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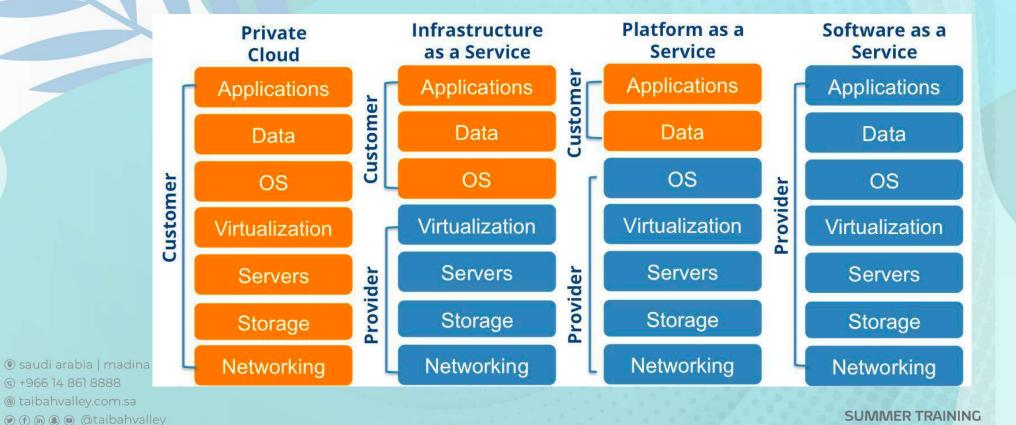
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Artificial Intelligence

ARVR

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FAB LAB



## Cloud Service Models

Infrastructure-as-a-service (laaS)

Highly flexible and highly scalable, accessible by multiple users, cost-effective.

#### Platform-as-a-service (PaaS)

 Accessible by multiple users, scalable, built on virtualization technology, easy to run without extensive system administration knowledge.

#### Software-as-a-service (SaaS)

 Available over the internet, hosted on a remote server by a third-party provider, scalable, inclusive, offering security, compliance, and maintenance as part of the cost.



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## Cloud Service Models

Infrastructure-as-a-service (laaS)

Virtual servers, networks, firewalls, etc. (AWS, Azure)

Platform-as-a-service (PaaS)

Deploy application without managing virtual servers (Google App Engine)

Software-as-a-service (SaaS)

Ready to use software applications (Gmail)

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AZVZ

## IoT Platform

Platform is a set of tool and services which enable developers to develop and run an application.

AWS, Google Cloud, Microsoft

Azure.

Thingspeak

Thingsboard

**Dynthings** 

Etc,,

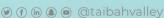












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#### Top Cloud Platforms with IoT services







ORACLE'

**CLOUD** 





#### Choosing IoT platform criteria

- Scalability
- Bandwidth
- Protocol
- System Performance
- Security
- Cost

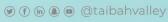










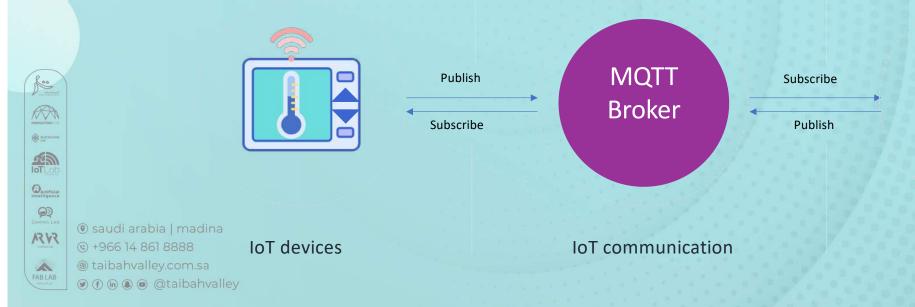


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#### **Way to Connect**

MQTT (Message Queue Telemetry Transport)







IoT platform
SUMMER TRAINING

#### **Node-Red Exercise**













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