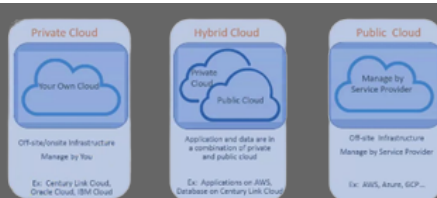# CLOUD COMPUTING

Cloud computing can be define as group of web services. It is on-demand delivery of compute power ,database, storage, applications, and other IT resources via the internet. These run on server computers located in large data centers around the world. These help us to meet business goals and satisfy our needs (you will be charge on only based what you are consume).

Cloud computing as software is very flexible and cost-effectively ,it also help us to meet specific needs of each different users and cam help us decide what set of services is right for our needs.

Cloud Computing Deployment Model

Cloud - 100% of data can be uploaded.

Hybrid - If not sure or not allowed data to be on the cloud , it also can upload certain information on cloud and your device .

On-premises - 100% custom made base on your requirements .

THERE ARE 3 MAIN CLOUD SERVICE MODELS

• Infrastructure as a service (Iaas):
provide you with the highest level of flexibility and management control over your IT resources.
• Platform as a service (Paas) :
these reduce the need for you to manage hardware and operating system, it also enable you to focus on deployment and management.
• Software as a service (Saas) :
This provide you a completed product. You do not need to think about maintenance, but you just need to think about how you were about to plan and use a particular software.

AWS MANAGEMENT CONSOLE responsibility is when you need something for processing , amazon will provide them . You just need to upload the code, amazon will provide with the best solutions. You just analyzed what you need and install it on your mobile phone and laptop because there is thousands of configuration on amazon which this can save you from spending millions of ringgit.

Advantages of Cloud Computing
- Massive economies of scale
- Increase speed and agility
- Stop spending money on running and maintaining data centers

What are web services?
A web service is a piece of software that may be accessed over the internet or a private network (intranet). It uses a standardized format such as Extensible Markup Language (XML) or JavaScript Object Notation (JSON) for the request and the response of an application programming interface (API) interaction. It is not dependent on any particular operating system or programming language. It's self-descriptive via an interface definition file and it is discoverable.

What is AWS?
AWS (Amazon Web Services) is a secure cloud platform that provides a diverse range of worldwide cloud-based services. You have on-demand access to the computing, storage, network, database, and other IT resources that you might need for your projects, as well as the tools to manage them, because these products are delivered over the internet. AWS resources can be provisioned and launched right away. In a matter of minutes, you'll have access to the resources.

AWS services are designed to operate together to support virtually any type of application or workload. Consider these services like building blocks, which you can assemble quickly to build sophisticated, scalable solutions, and then tweak them as your needs change.

Three ways to interact with AWS
o AWS Management Console
Provides a rich graphical interface to a majority of the features

o AWS Command Line Interface (AWS CLI)
Provides a suite of utilities that can be launched from a command script in Linux, macOS, or Microsoft Windows.

o Software development kits (SDKs)
Provides packages that enable accessing AWS in a variety of popular programming languages. This makes it easy to use AWS in existing applications and it also enables you to create applications that deploy and monitor complex systems entirely through code.

AWS Cloud Adoption Framework (AWS CAF)
The AWS Cloud Adoption Framework (AWS CAF) provides guidance and best practices to assist Enterprises in identify skills and process gaps. It also assists enterprises in developing a complete cloud computing strategy that spans the organisation and the IT lifecycle to accelerate successful cloud adoption.

Reflection
Data backup, disaster recovery, email, virtual desktops, software development and testing, big data analytics, and customer-facing web apps are just a few of the use cases that organisations of all types, sizes, and industries are adopting AWS for.

GROUP MEMBERS:
- ALIEYA ZAWANIE BINTI Z AZAINI A21EC0156
- ALYA DAMIA BINTI HUZAIMY A21EC0159
- ALYA BALQISS BINTI AZAHAR A21EC0158
- YASMEEN NATASHA BINTI HAFIZ SHAHREL A21EC0147