**Azure fundamental assignment 1**

1. What is cloud computing? What is Azure?

Cloud Computing is the on-demand delivery of IT resources over the internet with pay as you go pricing. Instead of buying, owning and maintaining the physical data centres and servers, you can access technology services such as computing power, storage and databases on an as-needed basis from a cloud service provider.

Azure is a Microsoft’s public cloud computing platform which provides a range of cloud services including compute, analytics, storage and networking

1. How to create an Azure account list the steps and requirements?

Requirement is to have an active credit card for identity validation purpose.

The steps to create a free Azure Account are as follows:

* In a web browser, go to <https://azure.microsoft.com/free>.
* Scroll down through the page to learn more about the benefits and free services available.
* Select **Start free**.
* Sign in with your Microsoft or GitHub account or create a free Microsoft account.
* On the **About you** page, select your correct country or region. Enter your first and last name, email address, and phone number. Depending on your country, you might see additional fields, such as a VAT number. Select **Next** to continue.
* On the **Identity verification by phone** screen, select your country code, and type the number of a telephone to which you have immediate access.
* You have the option of text or callback to obtain a verification code. Select the relevant button, type the code in the **Verification code** box, and select **Verify code**.
* If the verification code is correct, you're asked to enter details of a valid credit card. Enter the card information and select **Next**.
* The last step is to review the agreement and privacy statement then select **Sign up**.

1. Describe different types of cloud models.

There are two high level models in cloud computing

* Deployment Model
* Service Model

Public

Private

Hybrid

Iaas

Paas

Saas

Cloud Computing Model

Deployment

Service

1. Describe different cloud services

Cloud computing is offered in three different service models which each satisfy a unique set of business requirements. These are

* Software as a Service (SaaS)
* Platform as a Service (PaaS)
* Infrastructure as a Service (IaaS)

1. What are some cloud computing advantages?

Cost Savings

Security

Flexibility

Disaster Recovery

Loss Prevention

Automatic Software Updates

1. Differentiate Capital expenses vs. operating expenses

**CapEx** is defined as business expenses incurred in order to create long-term benefits in the future, such as purchasing fixed assets like a building or equipment.

**OpEx** is your operating costs, the expenses to run day-to-day business, like services and consumable items that get used up and are paid for according to use