IT Basics Assignment -4

1. What is Port Number?

A port number is a way to identify a specific process to which an internet or other network message is to be forwarded when it arrives at a server.

1. What is Https?

Hypertext transfer protocol secure (HTTPS) is the secure version of [HTTP](https://www.cloudflare.com/learning/ddos/glossary/hypertext-transfer-protocol-http/), which is the primary protocol used to send data between a web browser and a website.

HTTPS is encrypted in order to increase security of data transfer. This is particularly important when users transmit sensitive data, such as by logging into a bank account, email service, or health insurance provider.

1. What is http?

Http is an application layer protocol for transmitting hypermedia documents, such as HTML. It was designed for communication between web browsers and web servers.

1. What is encryption?

Data encryption works by securing transmitted digital data on the cloud and computer systems. There are two kinds of digital data, transmitted data or in-flight data and stored digital data or data at rest.

1. What is decryption?

The conversion of encrypted data into its original form is called Decryption. It is generally a reverse process of encryption. It decodes the encrypted information so that an authorized user can only decrypt the data because decryption requires a secret key or password.

1. What is Devops?

DevOps is a combination of software developers (dev) and operations (ops). It is defined as a software engineering methodology which aims to integrate the work of software development and software operations teams by facilitating a culture of collaboration and shared responsibility.

1. What is SDLC?

The Software Development Life Cycle (SDLC) is a structured process that enables the production of high-quality, low-cost software, in the shortest possible production time. The goal of the SDLC is to produce superior software that meets and exceeds all customer expectations and demands.

1. Types of SDLC Models?

The types of SDLC Models are

Waterfall model

Spiral model

V&V Model

Agile model

1. Different Tools used in Devops?

Plan: - Jira tool

code: - git/github tool

Build: - Maven tool

Test: - Junit tool

Deploy: - Docker, Kubernetes tool

Monitor: - Nagios tool

Operate: - Ansible, Terraform, Packer tool

Integration: - Jenkins tool