Test # 1

Jiading Zhou, Jan 28th, 2025

* List Cloud Computing Services?
* Private Cloud (On-premises)
* Infrastructure as a Service,
* Platform as a Service,
* Function as a Service (Serverless),
* Software as a Service.
* Computer system can be divided into four components, list them?
* Hardware, Operating System, Application Programs, Users
* What is VUI?
* VUI stands for Voice User Interface.
* What is an Interrupt ?
* Interrupt is the mechanism by which modules like I/O or memory may interrupt the normal processing by CPU. It may be either clicking a mouse, dragging a cursor, printing a document, etc the case where interrupt is getting generated.
* List one advantage of Interrupt?
* Interrupt increases the efficiency of CPU.
* List types of cloud computing?
* Public cloud, Private cloud, and Hybrid cloud
* Explain Von Neumann architecture (you can use a diagram to explain it)?
* Von Neumann architecture contains Memory, Input and Output, Processor (which includes Control Unit, Arithmetic Logic Unit, and Accumulator).

A diagram of a memory unit

AI-generated content may be incorrect.

* List the components of Big Picture of OS?
* User -> System Services -> System Calls -> Kernel -> (Interrupt) -> CPU -> Processes -> Threads

A diagram of a system

AI-generated content may be incorrect.

* List the factors in Storage systems hierarchy?
* Speed, Cost, Volatility
* What is Polling?
* Polling is not a hardware mechanism, its a protocol in which CPU steadily checks whether the device needs attention. Wherever device tells process unit that it desires hardware processing, in polling process unit keeps asking the I/O device whether or not it desires CPU processing.