Rajneesh Pander 04/10/2021 Assignment-2 00161190T 1) How cloud computing differ from distributed and parallel comp. The main difference between cloud computing and distributed computing is that the cloud computing provides handwave , softwave and other infrastructure resources over the internet while the distributed computing divides a single task among muliple computer () that one conhected via a () network to active the task faster than using an individual comp uter. Distributed computing cloud compuffng 1) A computing technique (1)-A computing technique that allows (multiple that delibeus hosted computeus to communicate semice over the internet and coordinate work by passing message through the network to acheive a common task. Its classified into 4 diff Its classified into 3 types such as public different types such as Distributed Computing cloud, private cloud, community cloud and system, Distributed Information system Hybrid cloud. and Distributed pervasive system.

cloud computing provides semices on demand computer semuices over internet on pay per user model

The goal of distribute computing is to distribute a single task among multiple computeus and to solve it quickly by maintaining coordination between them.

ine difference between parallel computing 4 cloud computing

Pauallel computing

an this computing, each and every processing step will get completed at same time.

video processing and simulation one the examples of parallel computing.

This can be done by using nouldwork or a customized network.

Cloud Computing

This computing is a distributed ounitecture built on a virtual or remote facility.

There is no need to buy handwave or any other network for in stallation.

approval from APIS where the vendor make the data available such as data auth, security 150 on

What is multi-tenancy and its advantage in cloud computing?

Multi-tenancy means that a saas (software as a single version a service) vendor provides a single version of its coftware for all its customers. This differes from a single-tenant hosted solution, where the application is housed on a vendor's server but the codebase is unique for each customer.

Advantages of a multi-lanancy saas over a third party hosted, single - tenancy application include the following.

- 1) Lower costs through economies of scale
- @ Shaved infrastructure leads to lower cost.
- 3) Ongoing maintenance and updates
- 4) configuring can be done while leaving the underlying codebase unchanged
- 5) vendors have a vested interest in making sure everything run smoothly.

3) Differentiate between virtualization and VM properly?

Virtualization is a process wheneby software is used to create an abstraction layer over computer houdware that allows the houdware elements of a single computer to be divided into multiple virtual computer.

Virtualization has brought a major revolution in our technology sector over the past few years

The ability to virtualized has meanted in much more efficient use of handware mesources especially the ones which are in higher demand especially the ones which are in higher demand.

By virtualization of IT resources, enterprises are able to wilize their handware much more effectively and efficiently.

nouveras, vm aux fully virtualized instance of prysical computeus. vms also come with a pre-defined set of specs, which include storage, RAM, GPU and CPU.

Although these resources are virtualizedor software defined, vMs are fully capable of excecuting tasks.

(4) why is hypervisor important? what is its

Hypenvisors offens critical benefits for small businesses, lange organizations and individual user alike.

These include:

- Reliability.
- -> Data replication.
- -> Handwaye neutral
- -> Servey consolidation
 - -> Desktop virtualization.

features of a thy pennisors?

Hypermisor partitioning the underlying Houdward Portitioning is a method for efficiently using an abundance of houdware mesonness by enabling multiple independent software payroads to run consumently on the same handware.

→ Resource Distribution.:

It manages independent virtual maduines by distributing resources like memory, network bandwidth, atc. among them.

Impoutance of -> Data Replication -> consolidation sewer -> Desistop virtualization. Ventical openability It is the set of computing senvices optimized for use in a particular way for an industry or a specific business model. unlike organization who can make hith general purpose cloud computing semices, those within certain industries or veutical. manket often have more niche IT requirements around security, compliance and other factors. ventical cloud computing, providens aim to ofbens services that Unelp their customens meet these unique requirements -> Ben'ifits of ventical openability. (i) shureased scalability (11) on-demand resources access Reduce need for investment on-promise software Pay as you go semulee

(v) moustry specific features and semices. -> A potential draw back is that some companies might not have the same ecomy as major public cloud provides, which leads to less competetive pricing.