1	What is cloud computing ? Explain services and models
	airlb advantages & disadvantages?
	colles brumble de se aronel and at 200%
	clark computing.
	to particle as the same to the bolton of the bolton
10	Cloud computing is the delivery of computing
	services such as servers, storage, databases, networking
	software, analytics, intelligence and more, over the
	cloud (Internet).
	clard service models:
	There are the following three types of claud
	service models.
	1. Infrastructure as a service (I aas)
	2. Platform as a service (Poas)
	3. Software as a service (Soas)
	Infrastructure as a Service (Imas):
	utudama hawtar
	ins is also known as Hardware as a service
	(Haas) . It is a computing infrastructure managed
	over the internet.
	Platform as a service (pons).
	Pools cloud computing platform is created for the
	programme. to develop, test, run and manage the
	applications.

1 software as a service (sans): saas is also isomo as on-demand software at is a software in which the applications are hosted by a claid service provider, users can occess these applications with the help of internet connection and web brocoser. Advantages Book up and restore data 5 mproved collaboration excellent accessibility loco maintenance cost Mobility Disadvaologes Internet connectivity vendor lock 10 limited control security.

Explain about HPC and HTC

High performance computing (HPC)

HPC stressed upon the speed performance The speed of HPC systems has increased from Giflops to Pflops these days draven by the requirements from different fields the science engineering modicine and others. The systems that generally have high speed are super computers, enain Frances and other servers

It should be noted here that the auraber of users is hosted - less than 10% of all the users The majority of the market now uses servers.

High throughput computing

The morket - oriented computing is now going through a strtegic change from HR to the tire paradigm. HTC correctiones more on high - Flux computing, the performance goal has shifted from speed of the device to the op of tasks completed per unit of time

HTC needs not only to improve the speed but also to solve other problems he availability cost. security and reliability



3 discuss about virtual emphines and operations

without machines (VM).

manged by a guest as to run a specific application.

Between the VMS and the host platform are need a middleware called VM months. A hypervisor (VMM) is a program that allows different operating system to share a single bardware bost.

VM Promitive operations

A vmm operation provides vm obstraction

to the quest os the vmm can also expert

an obstraction at full virtualization so that
a standard os can run it as it would on

physical bardware low level vmm operations are
indicated

* The MMs can be multiplexed between marking

* A VM can be suspended and stored in a stable

storage

the suspended we are the resumed as a new bordware platform.

* A VM can be migrated from one baildnesse platform to another.

A

4

Amdabl's loco:

on a uniprocessor anikstation with a total execution time of 1 montes say the program is running in parallel with other servers on a cluster of many processing modes. Assume that a fraction of the mode must be executed sequentially. Hence (1-x) of the code can be compiled for parallel execution by a processors the total execution time of the program is calculated by at + (1-x) The observe the first term is for sequential execution time on a single processor and the second term on a parallel modes.

Speedup S = T/[XT+(1-x)T/n]=1/[x+(1-x)/n]. 0

The maximum speedup of a can be obtained only if

w is reduced to zero or the code can be parallelized

with x=0

* As the cluster becomes large (that is n -> 0).

s approaches 1/0 obich is the thershold on the

speedup of s

* The sequential bothleneds is the portion of the

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