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## Practical :- 1

Aim: Introduction to cloud vendors: Amazon, Microsoft, IBM.

Cloud service providers (CSP) are organizations that offer network services; infrastructure, or business applications in the cloud:

There are several different forms of services that can be used in the cloud by CSP's, including software, often referred to as Software as a Service (Saas); a computing platform for developing or fusting applications, known as Plotform as a Service (Paas); or an entire notworking or computing Infrastructure as a Service (Paas);

## Amazon:

Amazon Elastic Compute Cloud (Amozon EC2) is a useb service that provide secure, resizable compute capacity in the cloud. It is cleriqued to make web scale cloud computing easier for developers. Amazon Ecz's simple web service interface allows you to obtain and configure capacity with minimal friction. It provides you with complete control of your computing resources and lets you run on Amazon's proven computing environment.

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	Reliable, scalable, infrastructure an demand:  Discrease or decrease capacity within nimites, not hours on days:  SLA commitment of 99.99% availability for each Ameron EC2 region. Each region consists of atleast 3 availability zones.
	Secure compute for your applications:  With the AWS Nitro System Virtualization resources  are offlorded to dedicated hardware and software  minimizing the attack surface.
•	Lockdown security model prohibits administrative access eliminating possibility of human error and tampering.
2·	Microsoft Azure, commonly referred to as Azure, is a cloud computing service created by Microsoft for building, testing, deploying, and ranging applications and services through Microsoft— managed data centres. It provides sixtemare as a Service (Saas), platform as a Service (Paas) and infrastructure as a Service (Taas) and supports many different programming languages, tools and frameworks, including both Microsoft—specific and third—party
	software and systems.

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		Services provided by Azure: Computer Services
	-b)	Educity
		Mobile Services
		Storage Services
	2)	Data management messaging
_	#	Media Services
<u>a</u>	9)	Developer
	3)	Media Services  Developer  Management
<b>3</b> -		
	3.	IBM:
		IBM cloud computing is a set of cloud computing
		services for business offered by the information
		technology company IBM. IBM cloud includes
		infrastructure as a Service (Iggs), software as
		a Service ( Saas) and platform as a sovice (Paas)
		offered through public, private and hybrid cloud
<u>(</u>		offered through public, private and hybrid cloud delivery models, in addition to the components that
		make up those clouds.
		IBM offers three hardware platforms for cloud
		computing. These platforms offer built-in support
		for virtualization IBM offers IBM websphere
		application infrastructure that supports programming
		models and open standards for virtualization.
		The propagatent lover of the PRM cland
		The management layer of the IBM cloud framework includes IBM. Fixali middleware.
		Management tools provide capabilities to regulate
		A require capable 100 require

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incapes with automated provisioning and de-provisioning, and number range while tracking costs and alberting billing. JBM also offers planning and consultation throughout
the deployment process. JBM offers five cloud
provision needels:
Private cloud, owned and operated by the customer.
Private cloud, owned by the customer, but operated by IBM (or another provider).
Private cloud, owned and operated by IBM (or another provider). · Wintual provider private cloud services (based on | multi-tenanted support for individual enterprises). · Public cloud services Chased on the provision of functions to individuals.

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Aim: Setting up virtualization using Virtual box/VMwane.
Hypervisor.

- 1. Run Vintual Box and create a new virtual machine. Name
  it Es Xi, select Linux as its type and other
  Linux (64-bit) as the version.
- 2. The virtual machine will need atleast 4GB of memory.
- 3. Create a new virtual hard disk; select VDI as its file type and fixed size as its storage type.
- 4. Right click on it and select settings (Ctrl+S) from the meny.
- [ 5. Select System -> Processor and assign two CPUs.
  - 5. Select the Network tob and configure Adapter 1.

    Select Host-only adapter and rone of the vboxnet networks, most likely vboxnet O. Expand the advanced section and select Intel PRO/1000 MT server (82545 EM) as the adapter type and Allow all for the promiscous Mode.
  - 7. Finally, mount the Usphere Hypervisor Dso in the

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	storage tab. Select the empty optical drive and choose the Virtual optical Disk file by clicking on the CD icon on the right.
8:	Click OK to exit the Settings window and return to the Virtual Box main window. Start the VM.  The installer will start and after a few seconds, you will be presented with a screen having a grey and
	yellow background.