IIIT DHAKWAD 4. Sanlly Swamp C.S.360-Introduction to Cloud Computing 18BE COSI MID TERM EXAMINATION ECE. 12/03/2021 The Layers of cloud computing Services on. 1. IAAS (Infra Structure as a Sorvice) 2. PAAS (Platform as a sorvice) 3. Set SAAS (software as a service). 1. IAAS (Infrashucture as a sorvice):-41t provides doud infrastructure in terms of hardware like nemony procuson speed etc. -> The providers give low-level abstractions of physical devices. EX: AWS SA an Example of IAAS, GCE, Digitalocan.

It provides EC2 for Computing, S3 buckets for Storage etc.

2. PAAS (Platform as a Service):-

application platform for the -> It provides cloud developors.

-> PAAS provider offers managed benvices like Rolls, Djorgo etc.

Ex: Google App Engineen, openshipt, Apache Stantol.

Those are the environments in which developers Con dwelop sophisticated software with cose.

Developer J. 15t Jours on developing Sygware, who ever Scaling and performance is hondled by PMAS provide

3. SAAS (Software os a Sorvice) ->It provides cloud applications which are used by the Uson directly without and alling anything on the System. The application nemains on the and 9+ can be saved and edited in there only. >Jt provides cloud applications colerch are used by The user directly without installing anything, as The application 91cm. > provider eggers an actual working before application EX:- Sales force and gothub They lide the underlying details of the software, and just provide the an interface to work on the Exptem. Cost effective:-It's an Non-ecommerces and also cost expective. IAAS:fir, Example if we take EC2 users they do not ocon the physical servers, ANS provides virtual sorvers. So usus only pay for the usage of the sowers, save nog them the coot (and associated ongoing maintaince) of investing in physical hardwave.

(1) API: - (Application Programing Interjace) It's the Printerface blu two applications to Communicate with each other. An API delevers Luck gresponde to a bystem and Sonds the system response back to the more

they also allow is to share the impodata and expose practical business functionally bloom divices, applications & Individuals.

For examples weather snippehi-

Rich weather Snippets Seem to be Common place, jours on all platforms, like googh search, apple woatherete. For example if you search weather on google, you'll See & dedicated box at the top of the search results with the curvent weather Conditions and forecit Gragh isn't barriness of weather data, por they source This information from a third party. They do so by means of an API. means of an Apri.

(5) The Cloud architechture is dipperent from the traditional hosting in many ways.

The Cloud architecture, the server hardware is provided and maintanance to it is done by The

TUSONS Can drow the sovices they require over the internet eliminating the need to purchase any hardware.

7 Uses pay dor the Services they use. It does away the need to pay any gived worthly plan dee as in tradition

- -> Cloud architectione is scalable on demand. of Cloud hosting is Capable of hondling workloads Senialisty without any possibility of Jailuve. > USENS Can Grerense/dicherse Their resources depending on Their seds businen medl. - Cloud offers better data security and vecovery from any natural disasters and human errors as it backups data over multiple lo cations. 6 The purpose of elasticity is to match the gresowers allo costed with actual amount of resourced needed at any given point in time. -> Scalability handed the changing needs of an application with in the confine of the infrastructure via statically adding removing resources to meet applications, do mands if needed. In addition, bealability can be more granular and targeted an hature Than Clasticity when it comes to sizing. -> Classicity is the ability to grow or shrink injustructure resourns agranically as readed to adapt to workload Changes in an autonomic manner, maximizing the Use of resources. This can gresult in baving an infrastructure cost cost overall. -> Scalability includes the ability to increase workload Bezze within existing infrabhucture without impacting
 - performance. These resources required to support this me UKually pre-planned copacity with a Centain amount of hudroon, built in to handle peak domand.

6)	Application! -
-	in a livetion with uneven usage or spike disting
4.	Applications with uneven usage or sprike during -> Applications with uneven usage or sprike during periods, having built in plasticity and scalability is periods, having built in plasticity and scalability is
	periods, houng
	& redication should be designed
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-6.	
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	on a bright and elasticity
	tox bold
	Cloud provids.
	1 1 davices are
3	Commonly used Choud Services are
	-4 EC2
	$\rightarrow S_3$
- 200	> Pyramods.
	Ly Aws lamber
	out of Aws when
	All are productive all the spring
	All are parts of Aws which at thing and can All are parts of Aws which all the thing and can The Ecz we virtualize all the thing and can we without a hardware machine
	The Ecz we virtualize an hardware machine run with out a hardware machine out this q data & sin In S3 we can Store are out this q data & -> In S3 we can keeps backup like Google drive.
	so we can Store the Google drive
	-> In >3 backerp backerp
	In S3 we can store the out of the deadle drive. The Sa we can keeps backup like Google drive. The surfacts point of view dynamods can be yield widely in federaling the details of employees and Used widely in federaling the details of employees and and for a federaling the details of employees and
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	AV VOSTINI
	True, et 1 not economic
	and by got hab are
	True, etts not economical because et all the services
7	

(4) "Scalable" and "clastic" intrastrutive resources to specienty hantale the applications and also even being charged for services that are no largest used.