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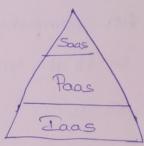
Deb applications uses APIs to connect user-facing front ends with all-important back end functionally and data ctreaming sourices like spotify & netflix uses API to distribute content.

-> Automotive companies like TESLA sends sow updates working API

cloud computing & comprused on mainly with three layers
Saas, Paas, Iaas.

Software as a source cloud provider leaves applications or sfuss which are owned by them to clients.

en grail & saas provided by google Salesforce



Patforn as a Service

This service is made up of programming language estimation environment. An operating system, A websenver of A database In this model you manage data of the application resources, and all other resources managed by vendor

Ewode abb audius

Infratructure as a Service

- This sources offers the computing architecture & infrasture,.

 All computing resources But in a virtual environment

 so that multiple were com access them
- -> Resources unclude: Data storage, Virtualization, Servere & retwo

Ex: GoGard.

EC2

rackspace.

- -> Saas provides the best cost effective applications because they don't need any maintainence by user
- as you leave hondware infrastrature
- 3) components of cloud computing:

e) storage:

Storage is one of the most important components of cloud composition of provides a huge amount of storage capacity in the cloud to store and meanage data

application:

- -> The cloud storage can some cost
- data rendundancy as cloud storage vendors keep multiple copies of data
 - -) data tiering for cost saving.

(7) Infrastructure

- -> It provide services on host level, application level and only devel
- -> cloud infrastructure includes hardware and software components such as somers, storage, network durices and other.

Applications:

cost: first and foremost the cloud removes or greatly reduces operating expense of company setting up & managing

Agility & fleribiley

cloud Enfrasture is mostly self managed.

this makes user company more business focused than it focused.

in) Security

securely is an inbut back end component of cloud computing It implements a security mechanism in back end.

Applications.

cloud security involves — availability

campilance

DR/BC planning

Grovernance

-> doud security is quickly Scalable -> uses resources efficiently & wrage Based cost.

Economic?

Loud computing services mainly based on PAY AS YOU GO

related

The cloud users can use sfu application on subscription

basis without any cost because of property of sfu

providing services remains to doud provider.

es it reduces capital cost

reduces maintainence cost

administrative cost

- 5) In cloud anchitecture, the server handware provided by & maintained by source provider.
 - where can draw the Services they require over the unternet eliminating the need to purchase any new hardware

	180	0	Control	flerabing
traditional	high mountainence, setup corst	morages	more control umplementation former time to setup.	More flerible less updation essues
cloud	cheapers.	dependence dependence	Easy to unblen	nent less flembly etup & more stability more consistency

Thus, both have its own advantages and disadvantages wer should choose based on requirment.

Elasticity It is used just to meet the sudden up & down in workload for small period of turne.

Scalubility: It is used to meet the static increase in workload

They need to be able to grow their workflows to matche their entemprises needs while also knowing they have to correct of rescurces to do so

advantages of Elasticity, Scalability in cloud

For demand computing to high customizable infrastructure.

Pay for use tost souring

Eax of implementation Security

Security

more versatile

These advantages makes Elasticity and Scalability un.
Aws cloud computing as usefull securicus.