12/3/2021
Friday

Cloud Computing
CS360

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1. Api :- Firstly Api stands for Application Program interface, which is a software intermediary that allows two applications to talk to each other.

So, Api is used to make our work easy and fast. if we look into our daily life we use Api in many ways. for example. we log-in using facebook/twitter/any other website. Here they use login Api. It works in a pretty Simple way. Every the time the App loads, it uses the API to check whether the user is already logged in or not. If not, when the user clicks login button then popup appears to confirm the login and it logs into the profile.

→ Here Simply API is used to connect user-facing front end with all-important back end functionality.

2. There are three different layers in Cloud Computing Service.

(i) Top-layer which is SaaS (Software as a service); it is is a service where we access via web browser and web based services.

(ii) Middle layer which is PaaS (Platform as a service), it is a service, where consumers get diverse settings according to their requirements

(iii) Bottom layer which is IaaS (Infrastructure as a service), It is a service where we (user) can get the memory, CPU & all additional hardware resources

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Example for Top layer (IAAS):- Microsoft azure, AWS, etc.
Example for Middle layer (PAAS):- Heroku, google App Engine, etc.
Example for Bottom layer (SAAS):- GMAIL, OFFICE 365, etc.

(2) → So, when we need to tell the best effective layer
we can simple choose according to our need
if we need out-of-box-software (CRM, GMAIL, etc)
choose "Saas". if we need a platform for building
software products choose "PaaS", if we need
virtual machine then we can opt for
"IaaS"

(3) cloud computing components generally correspond
to frontend, backend, network. So a framework
of cloud computing is categorised as three
specifically clients, Servers, data center, etc.

→ False, it is economical, cloud technology reduces
significant cost associated with purchasing
hardware & software resources. It also reduces
cost of storage space for servers, and
infrastructure maintaince and it provides many
other benifts as we can access them from any
where through internet.

④ Network and ~~the~~ laptop or ~~tab~~

So, here ~~is use~~ it is cloud we require network and one necessary thing to ~~and~~ use the, Services ~~of cloud~~ of Iaas provided by Service provider.

⑤ "Operation excellence pillar" focuses on running & monitoring systems to deliver business value & key topics that include responding to events, etc.

→ Security pillar focuses on protecting information and systems. Key topics include. Confidentiality and integrity.

→ Reliability pillar focuses on ensuring workload. performs its intended function correctly & consistently when its expected to.

→ Performance pillar focuses on using. It & computing resources efficiently by selecting the right resource types & sizes based on requirements

→ Cost optimization Pillar focuses on avoiding unnecessary costs. It includes understanding & controlling where money is being spent and scaling it to needs

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→So when we look at traditional way all the security, hardware and everything must be controlled by us but here it controls everything for us (it means cloud service provider) we can save money by paying for what we use.