Introc	Juckon	P	cloud	
Why	Cloud?			

1) Previous setup was
(a) Costly
(b) Troubleshooting was big issue
(c) Traffic := not constant

Furthermore, since everything is going ordere today,
the amount of data generated is huge. Thus, the
previous setups were bound to be brited & cloud was
inevitable.

Thork of previous setup as stacks of websites. Now,
thork of similar stacks of data centers. Cloud basically
lets your function choose the data centres required.
Then rest only are particular service needed. This makes

it very cost-efficient.

Thur, Whalis Cloud Computing? -> storng data application on remote servers

-> Processing data application from servers -> Accessing data / applications via internet. his lookal Cloud Service Models Cloud Computing Paas I aas O Saas · CSP leases opplications or software which are owned by them to its client cloud infractmence to lits client and charges them for it, but the coftware is owned by salesforce company only.

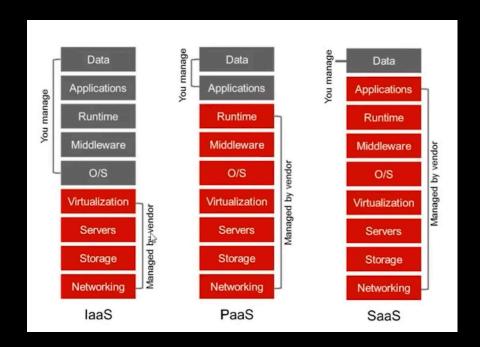
2 Paa S	
No control over under Os, storage servers et.	lying architech ture including
OS, storage servers etc.	
The cloud provider	gives the ability to the
customer to deploy customer	to that are manided by
customer to deploy customer programming languages, tools	one provides
doud provider.	

@ Jaas

· Provides a virtualized computing resources over the mterret

· No worries about the underlying physical machine

Machael the user from physical machine.



Imagine eating a pizza:

- @ Order it online & east at home (Saas)
- b) hoto a ristaurant & eatil (Paas)
- @ Make it (I as 4)

[loud Deployment Models Public Cloud
Private doud
Hybrid
Cloud Public cloud · A CSP malces recources such as applications and storage available to general public over the internet. hordware, opplication and bondwidth costs are Covered by the provider. No wasted resources because you pay · Offers hosted services to broked number

of people behind firewell, so it minimizes the

security concerns (b) Private Cloud

· Private doud gives companies direct

C Hybrid Cloud

· A doud computing environment which uses min of on-premises, private cloud & third party, public cloud services

· It helps you leverage the best of both worlds.

On premise V/s Cloud Computing · On-premise Approach On premise computing refers to the scenario where an organization hosts its IT ins fras hucture including software application , data and hordwore, within its own facilités. The traditional model requires significant investment in physical hordwore and on going maintainance. Below is o detailed emploration of various aspects on-premise computing. Ky components 1. Hardware servers: physical mochnes that runs application and store data Networlang: Routers, switches, and other network devices to manage internal & entrad

communication

Storage devices: Hard drives, SSDs and other storage medio dor data storage &

2. Software

· 05 a joundakonal software that manges hardware resources

Applications: business-specific software installed on servers or individual workshops

· Middle ware: Software that connects different opplications and ensures they work together

Infrostructure · Data centers

· Workstations

Ky Charecteristics

(a) Control including hardware specifications, software

configurations and security measures (b) Security Data is stored on-site, providing of precipitation of higher security Physical security measures can be implemented, such as access control, survillence and on site-guards 3 Complana Easier to meet certain regulators and complian a requirements, particularly those mandating data to reman on-site. · Organizations can ensure full control over data residency and address (4) High costs · Significan-1 initial investment required · United scalibility & costly to scale - cost for hardware mantainance

· cost for disaster recovery

· Cloud Computing Approach

what is cloud?

This a huge online space, that holds collection of servers orchestrated to provide you various of services.

I magine using electricity in modern day households.

On-premise model is similar to having a powerplant in
your house and using the electricity. And, cloud
computing is to buy electricity from a Electricity Provider
and pay the usage based on units. The provider

wornies about everything, and for us there is very less thing to warry about. So, cloud computing is also a pay-as-you-go model.