

Containers Virtualizes the operating system → abstraction at the operating system level -> Muttiple containers can run on the same machine -> can share the host operating system kernel. -> container does not require its own operating system. · The amount of disk space, RAM, processor time and other server resources that are saved. -> container, packages your application code and it's dependencies together. Server room secured ! Setupe configure * Benefits of cloud computing Servers connect it to the server organizations faced with a large Reduce costs initial capital expenditure (Capex) v cloud reduces both capex and poper antivirus cooling system Software opex. server vorganization no longer have to any other dependencies Maintenance spend huge amount of money · disaster recovery on physical servers, · failover system related IT infrastructure specialized IT workforce server rooms or data centers.

pay as you go



You will pay for what you use.

cloud resources are metered

Business continuity

any crisis do not result in data loss

Scalability

scale up 1 Scale down &

Never run out of resources.

Automatic Updates

self service

Accessibility

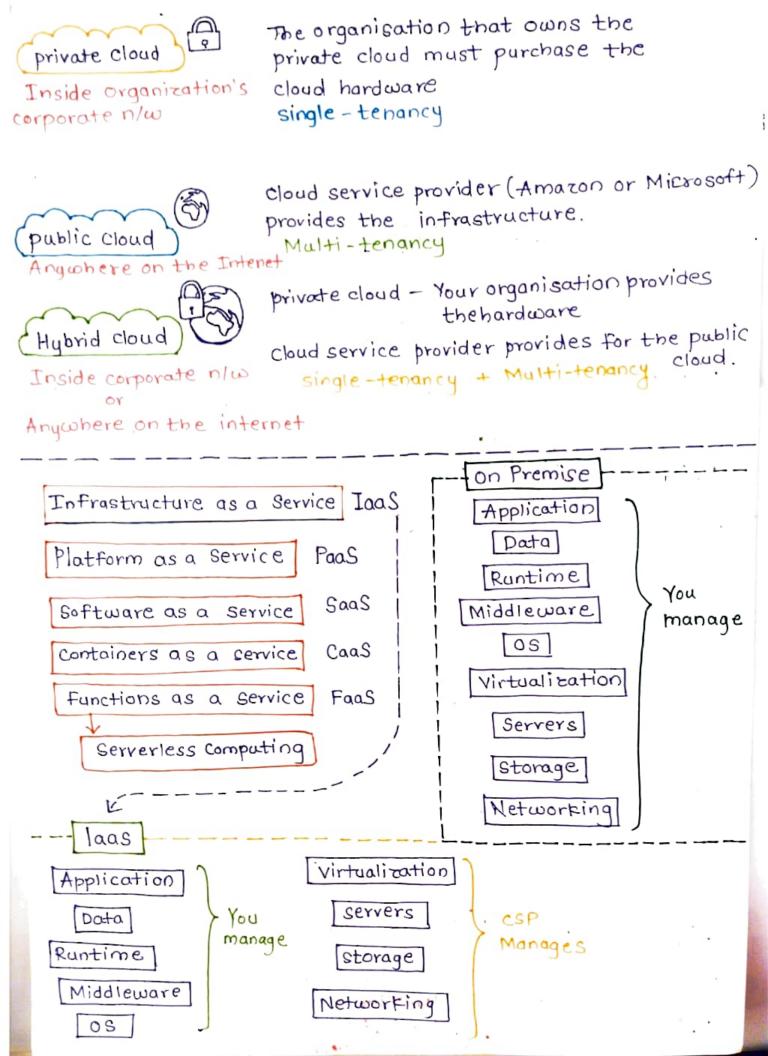
accessed from Virtually anywhere and anytime.

Increased

collaboration

Risk of cloud computing SLA'S Service Level Agreement loss of cloud data and services Data security Compliance and legal risks Local and international regulations GDPR, HIPAA cost concerns What is a Public Cloud. Benefits, Limitations & Usecases. Lo Physical servers, storage, networking etc public doud are procured and owned by the cloud service. No setup & maitenance worries Most common L. Anyone can use a public cloud type of cloud Individuals and organisations Microsoft Azure examples Multi-tenancy Amazon AWS Manage the cloud services Multiorganisations cloud resources. and resources using cloud provider web fortal. like water or electricity bills = pay-as-you-go No upfront capex Low visibility and control imitations Benefit pay as you go .. compliance and legal risks No maintenance cost concerns Highly scalable Highly reliable Unlimited scalability usecase varying peak demands Fast growing businesses Backup and disaster recovery solutions.

7		•
Private Cloud		
located on-pr		athird party e provider
	e used by one ousiness or organisations.	•
organisation		
-> easy to customi	se a private cloud	,
→ used by govern	iment agencies	
Better securit Better contro		
Better contro Predictable co Legal complia	obts Limited acces.	
E Legal complia	inces of	
	Huge initial constraints the Limited access.	
(use case)	Highly regulated business	المراجع والمراجع والمراجع
* .	Tech companies that require	re complete control
	large companies that requ	
(Hybrid Cloud)	doud Bursting	
private clos		
combination of private + public		otinue to run in your ivate cloud.
	Spike in Demand Burst to	hrough to the cloud.
Best of both to worlds Better Control Cost - effecti	of control Additional complexity	Use case



Iaas Hardwar as a Service (Haas). Infrastructure or Computational or Storage Teams install SQL server Software Developmen webapplication oracle host & run Teams If your new product launch, well and good. Benefits If it doesn't shut things down and > Reduce Financial risk stop paying. > Deployment speed -> Geographical advantages -> Unlimited scalability. Pags Runtime Applications (cloud Service) Middleware providers Data OS Manages Virtualization Servers storage Networking platform for software Data driven web app Development ASP. NET Core or Java A SQL Server or Oracle Windows Azure ♦ Web Server AWS Elastic Beanstalk Google App Engine Igas + Pags Benefits > Paas Benefits · Reduce development time Reduce financial Risk · support global team · Deployment speed · Develop for multiplatform · Geographic location adv.

· Acuto scaling

· Affordability

