

| 4     | Essential characteristics of doud computing:   |
|-------|--|
| ľ     | I Broad Netwark Access:  |
|       | cloud services are accessible over the   |
|       | Network through standard mechanisms enabling   |
| 2115) | and laptops.   |
|       | and laptops.   |
| 2     | Rapid Elasticity:  |
|       | -> cloud resources can be quickly scaled up an   |
| 5337  | down to neet demand, providing thesibility to  |
| 100   | accomodate varying workloads   |
| 2     | Measured Services:   |
|       | doud suctoms automatically control and   |
| -     | optimize resource use by leveraging a proctime   |
| 0.    | optimize resource use by leveraging a Aracking metering apability often on a pay-per-use or  |
|       | change-pen-use basis.  |
| . 7   | On-Demand Self-Services:   |
| 4     | -) User can provision computing presources as  |
| 97.30 | needed automatically without nequiring human   |
| inel  | interaction with service providers.  |
|       | mendalistest less sometimetres constant court  |
| 5     | I Resource Pooling:  |
|       | -> Multiple austomers share a common pool of resources, dynamically assigned and treassigned |
|       | according to demand, providing a multi-tenant  |
| 1     | model with different physical and virtual necources.   |
| 2000  | status has allest se sensiatisation  |

142/16/18 \* Service Models :-Tothware as a Service (Saas):

-> Delivers rothware applications over the internet, typically on a subscription basis, eliminating the need for local installation and maintenance. 2] Function as a Service! (Faas)2 developers to run individual functions as pieces of code without managing server infrastructure 3] Mattarm as a Service (Paas):--> Provides a platform allowing customers develop, run, and manage applications without the complexity of building and maintaining the underlying intrustructure. 2) Container as a Service (Caas):

-> offers container-based viritualization

where containers can be used to deploy, manage and sale applications, Providing an abstraction layer between applications and infrastructure. 5 Intrastructure au a Service (Iags): over the internet, including servers, storage and networking enabling automers to went infrastructure on a flexible and scalable basis

Deployment Models: 17 Public cloud: cloud services provided over the public internet and available to anyone who wants to purchase them, affering scalable and elastic resources. 27 Private doud:

> cloud infrastructure operated soldy for a single arganization, offering enhanced seasity and control over data and applications. 3 Hybrid cloud: combines public and private clouds, allowing data and applications to be showed between them providing flexibility and optimal nexurces utilization. 4) Community cloud:

A cloud infrastructure shared by several arganizations with common concerns, such as security, compliance on jurisdiction, and managed either internally on by a thind party.