1. Cloud computing is powerful network architecture intended to perform large-scale complex operations.

· There are many challenges which need to be addressed during its architectural design

- I service Availability and Data book in problem

- * cloud is not managed by a single company which would be so.

 were of single points of failure Multiple cloud providers work together to acheive high availability.
- * Even if a company has multiple data centres located in different geographie regions, it may have common software infrastruture and accounting systems.
- * Therefore using multiple clouds providers may provide more protection from failure. Another availability obstacle is distributed denial of service attacks which make services unavailable to inhanded users
- 2. Data privacy and Security Concurry
- enposing the system to more attacks.
- Many obstacles can be overcome immediately with well understood technologies such as enerypted storage virtual lans and Network
- many Nations have laws requiring Saas providers to keep customer data and copyrighted material with national boundaries

- * Traditional network attacks include buffer overflows, Dos attacks spyware, malware, root kits, Trojan Losses.
- * In a cloud environment never attacks may result from hyper visor malware, guest hopping and hijacting
- * In general passive attacks steal considere data or passwords.
- 3- Unpredictable Performances and Bottle neeks

 * Multiple Un's can share epu and main memory in cloud
 computing but I/o sharing is problematic.
- Systems to efficiently virtualize interrupts and Ilo Channels

 Antunet applications continue to become more data-intensive

 A me assume applications to pulled apart across the boundaries

 of clouds, thus may complicate data placement and transport.

 The pota transfer bottle needs must be removed, bottleneet links must be widered and weak servers should be removed for

 minimizing the cost

4- Distributed storage and Widespreed software Bugs

The Database is always growing in cloud applications. The
opportunity is to create a storage system that will not only
meet this growth but also combine its with the cloud
advantage of scaling arbitarity up and down on demand.

This demands the design of efficient distributed SAN's

* Data centre's must meet programmers emperiations in kins

of seablitity data durability and HA Data consistence checking

in SAN connected data centers is a major challenge in cloud

computing.

* large-scale distributed bugs can't be reproduced, so the debugging must occur at a scale in the production data centers

2. i) There are different components of Aws, but only for key components

are

a) Amazon durter: To assess thus cloud compiling capabilities

we must first examine the basic components of the cloud

This is also known as Amazon account. And has the main

computer service EC2 and ELB Due to these cases

companies can increase or decrease according to needs.

Administrators and system developers we ecz

movement of a

b) storage:

c) Databases:

d) Management and security

e) Networks:

f) Analytics

- 9) Application services
- 1) implementation and management
- i) Mobile services
- b) Elastic cloud computing for 4t is a webservice interface that provides resizable compute capacity in the Aws cloud 4t is designed for developers to have complete control over web scaling and computing resources

philadelle dale the philadelphy

ECZ components:

An Aws fcz the users must be aware about the fcz components the operating system, support, security measures, priving structures, etc

features of ECZ

- Reliable
- Designed for Amazon web services
- Cecure
- Flendele tools
- in expansive

- 1) B
- 2) A
- 3) A
- 4) B
- 5) (
- 6) C
- 7) D
- 8) B
- 9) D
- 10) C