Cloud Computing Assignment 1 Navereet Saini 2100290120111 7B

- Ans 1 1) on demand self sourice 2) Broad Network Access 3) Resource Pooling and Rapid Elasticity
 - 3 Cloud differes from Traditional on-premise;
 - 1 cost pay only for the sessiveres used 2 Scalability with nunimal effort

 - 3 Maintenance & Upgradation managed by service provides to handle suppost.
 4 Security & Reliability.— robust mechanisms and diaster recovery solutions.
- 3 d'usuld préfer (Saas)-software as a service which provides enemediate access to functional, cost efficient tools and help starties focus on
 - AN 2 1 publisher entity that produces and sende Ileal time updater.
 - 2) Subscriber entity that recieve updates
 - 3 Message beoker decieves message like Rabbel-MR, AWS SNS, etc.
 - 3 Steps to set up Publisher-leebscreiber model-
- setting up publisher create logic using JSON format over HTTP
- 2 setting up subscriber display notification,

- 3 Setting up niessage becker chopse Rabbitma, configure and ensure suppose.
 - 4 communication mechanis m message: ISON, protocol: HTTP, acknowledgments.

Ans 3 - Types of vistualization -

- allows multiple Os and applications to share single cov by abstracting hardwase. Eg VMwase, KVM, etc.
- (2) Memory abstracts physical memory, allowing machines to shace memory dynamically and distributed. Eg - ESXi, etc.
- 3 I/O abstract physical network enterfaces, etcrage devices and other I/O devices.
 Eg NSX, Open vswitch (ovs), etc.
 - 3 Approach to implement them -
- 1) Access avoicent reservece wage
 - 2) Select vistualization tools (from above)
 - 3) Ineplement dynamica resource allocation
 - (i) monitor and scale susaveces.
 - 3 Benefits of Visitealization.
 - Desceased utilization

 Reduce cost and Scalability

Ans 4 - we should belcommed typoo'd cloud:

- 1) High lecweity (a) Brivat closed for elusticul data, (b) Public Closed for less sensitive operations
- 2 fleribility (a) Dynanic workland, (b) Reamless entegration
- (3) cost efficiency (a) las as you go model,
- (9) Real world example: General Electric (4E)
 - 3 Ineplementation steps:
- D'Access workload Ilequisements D'Ouose cloud providers (2008, Aruse, etc.)
 - (3) Derign clirid architecture (4) Set up doed fut excomenter 14
 - (9) Set up cloud luterconnecteurly (5) Monitor and Optimize.
 - Ans 5 (1) Derign Staal implementation —

 L) (a) claud storage selection

 (Amazon S3)

 (b) Storage class (S3 standard,

 Glacier).

 (c) Integration with enterprise
- (2) steps to migrate enisting data to doned— Ly (a) Data assessment

 (b) Choose data migration strategy (CII)

 (c) Data syndronization

(3) Ensuring data security -) (a) Encouption (SSE), (KMS) (b) Access control (IAM) (c) Data backup (CRP)

Description categorize Data Assessment -AWS Snowball, CLI Migration tool Data Sync or regne Synchoconigation shift workload to S3 Security -SSES3 ON SSEKMS S3 intelligent testing cost optimization-CRR Backup / Recovery-Cloud Trail Monitoring -ALL THE WASHINGTON

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