Ans 1 - 1) An demand self service

(3) Broad Network Access

(3) Resource Pooling and Rapid Elasticity I Cloud differer from Traditional on-premiee; 1 cost - pay only for the seesowices used 2 Scalability - with numinimal effort 3 Maintenance & Upgradation - managed by service provider to laude support. (4) Security & Reliability. - robert mechanisms and diester recovery solutions. 3 I would prefer (Saas)-software as a service which provides unmediate access to functioned, cost efficient tools and help startup focus on Aus 2 - 1 publisher - entity that produces and sends Iteal time updates. 2 Subscriber - entity that recieve updates 3 Message beoker - recieves message like Rabbit MR, AWS SNS, etc. = Steps to set up Publisher - lubscreiter model -1 - settling up publisher - create logic using JSON format over HTTP. 2 - setting up subscriber - display notification,

- 3 Setting up niessage bocker chopse RILLIMB, configurce and ensure suppose.
 - 1 communication medianis m message: Ison, Protocol: HTTI, acknowledgments.

Ans 3 - Types of vistualization -

- 1 eru allows multiple os and applications to strace single cru by abstracting hardionsei. Eg - VMWase, KVM, etc.
- Demony abstracts physical memory, allawing machines to shace memory dynamically and distributed. Eg - Esxi, etc.
- 3 I/O abstract physical network enterfaces, etorage devices and other 1/0 devices. eg - NEX, Open vswitch (ovs), etc.

I Approach to implement them -

- 1) Access avocent reservees wage
 - Delect vistualization tools (from above)
 - 3) meplement dynamise reserver allocation
 - W) monitor and scale susaveces.
- 3 Benefix of Vistualization_
- Desceased utilization

 (2) Reduce cost and halability

we should elecommed typood cloud:

- 1) High Elewrity aprivat closed for elevritive data, (b) Public Cloud for less sensiteue operations
- @ fleribility (a) Dynanic workland, (b) Reambers entegration
- (3) cost efficiency (a) Par as you go model, (b) efficient suscee allocation
- (4) Real world example: General Electric (48)

=> Inuplementation steps:

- 1) Access workload requirements
 - D choose cloud providers (mos, Aruse, etc.)
 - 3) Derign cloud architecture
 - 9 let up doud enterconnectivity 3 Monitor and Optimize.
- (1) Derign Staal implementation _ La car cloud storage selection (Amazon 83) (5) Storage class (53 standard, Glacier).
 - (c) Integration with enterprise
- 2) steps to migrale existing data to doud -Ly cas late assessment
 - (b) Choose data nugration strategy (CII) (c) Date syndownization

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

Descerption categorize AWS Snowball, CLI Data Assessment Migration tool Data Eyne or reyne shift workeload to 53 Dynawcoui zation Cutoreer 95ES3 O SSE KMS Security S3 intelligent testing cost optimization-Backup / Recoverycrr Cloud Trail Monitoring