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① How anyone EC_2 provide load balancing?

Ans. Micro services must be scalable & elastic, & if components fail new instances or containers must be brought online to ensure constant availability this means IP address of each instance changes constantly in the micro service. Each instance of services also must continuty maintained using load balancers provide stable & available points. Load balances require additional compute resource & introduce If client is in control. Elastic load balancing automatically distribute incoming application traffic across multiple targets such as instances, containers etc. It can handle the load of your application in a single availability zone.

② Compare Google file system & HDFS?

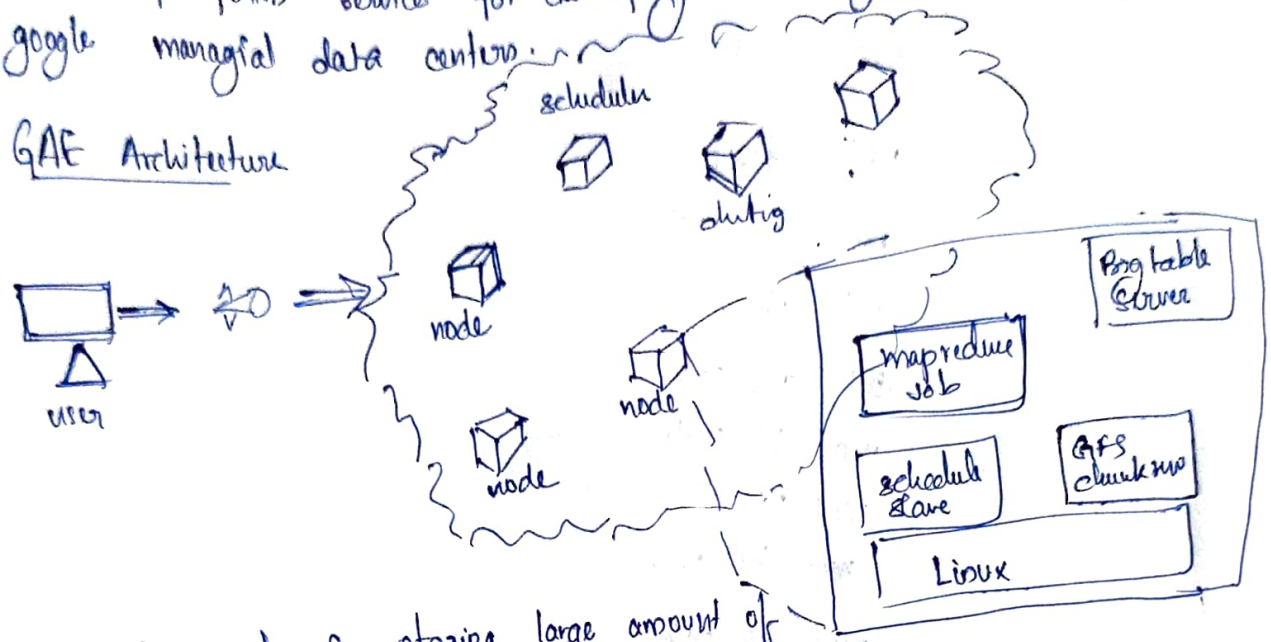
Ans

Hadoop distributed file system	Google file system
→ Developed in Java	→ developed in C, C++
→ deleted files are renamed into particular folder & then it will removed via garbage.	→ deleted files are not deleted immediately and are renamed. In hidden name space & deletes after 3 days
→ No n/w stack issues	→ N/w stack issues.
→ only append possible	→ redeem file also possible.
→ It has name node & address node.	→ it has waste note & chunk server.

③ Discuss about google App engine with the help of suitable diagrams. ?

Ans These platforms service for developing & hosting web application in google managed data centers.

GAE Architecture



GFS is used for storing large amount of data map reduce is for use in application program development chubby is used for distributed application local service. Big table offer a storage service for accessing used data. User can interact with google app. via the web interface provided by each application via the web interface provided by each application. Third party application provide can use to build closed applications for providing service.

Inside each data center there are 1000 of service forming difficult cluster.

The holding block of google cloud computing appreciation include the google file system, for storing large amount of data. Map reduce programming framework for applied non developers.

The figure shown is the overall architecture of google cloud infrastructure. A typical cluster can run the GFS, map reduce job & Big table server for structure data extra service such chubby for distributed locks can also run the cluster.