1)DAILY LIFE WE ARE USING GOOGLE DRIVE SERVICE

GOOGLE DRIVE SERVICE ADVANTAGES:

1. WE CAN ACESS FROM ANY WHERE AND ANY TIME IN THE WORLD
2. ACESS IN ANY DEVICE(device inde)
3. Scalling:increasing and decreaseing size
4. Pay as go : how much u r using that much need to pay.
5. Tco/toc : total cost ownership /total ownership cost responsible is google only / maintance works belongs to google only.

2) AWS IS IAAS PROVIDER:

IAAS MEANS:PROVIDING BELOW 3 THINGS

1. SERVERS
2. STORAGE
3. NETWORK

Using of these 3 things we can create our infrastructure

1. Server configuration
2. Server instalization
3. Our website hosting etc…

3) Interview question: 1) How do I resize an AWS instance?

**Resizing an EBS-backed instance**

1. Open the EC2 console.
2. Select the instance you wish to resize, and stop the instance.
3. With the selected instance, choose Actions > Instance Settings > Change Instance Type.
4. From the Change Instance Type dialog box, choose which instance you would like to resize to.

2) How do I change my server on AWS?

**Open the AWS Transfer Family console at https://console.aws.amazon.com/transfer/ .**

1. In the navigation pane, choose Servers.
2. Choose the identifier in the Server ID column to see the Server details page, shown following. You can change the server's properties on this page by choosing Edit:

AWS PROVIDING IAAS

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1. Tell me diff between
2. Dev/test/livE
3. **Using aws cloud we are creating infrastructure using of aws services**

**Lunch one business of mobile selling (e-commerce )**

**Requrments:**

1. **Servers**

**: server maintain in 3 environment**

**1)dev env: devlopers works on dev env**

**aws admin responsibility of create dev env infrstucture**

**For devlopers using of dev servers developing one e-commerce application**

1. **test env: testers works on testing env**

**aws admin responsibility of create test env infrasture**

**: using for test servers testers do testing on e-commerce application**

1. **live env(prod): operations team works on live env**

**aws admin responsibility of create prod env infrasture**

**: live server users acess our e-commerce application**

1. **Website**
2. **Network**
3. **Building**

**6.AWS PROVIDING IAAS AND SERVER CONFIGURATION**

1. AWS AND AZURE JOBS MEANS: HOW TO MAINTAINE A INFRASTRUCTURE and how create infra
2. AWS FOR CREATE AND MAINTAINE A INFRASTRUCTURE USING OF CLOUD SERVERS
3. AND DEVOPS FOR DEPLOYMENT OF OUR APPLICATION.
4. BEFORE CLOUD SERVER CONFIGURATION CHANGE IS VERY DIFFCULT

BUT CLOUD CAME SERVER CONFIGURATION CHANGES IS VERY EASY

SERVER CONFIGURATION MEANS: ram no cpu storage

Server configurations changes means:

4 GB RAM 4 CPUS 10 GB STORAGE-----------16 GB RAM 8 CPUS 100 GB STORAGE

How to change server configuration in aws cloud

1. Lunch instance
2. Stop instance
3. Go to actions change instance type
4. INSIDE CLOUD AUTOMATED :

1)LINUX ADMIN :

What linux admin job done cloud automated

1. WEB ADMIN

What web admin job done before cloud now cloud automated

1. NETWORK

Network peoples job cloud automates inside

1. STORAGE ADMIN

Storage people will done job cloud automated

1. SECURITY ADMIN

What security people will do that job cloud automated in side cloud

1. Personal laptops mainly windows laptops

Servers are 90% mainly linux servers.

Interview question:

1. Why servers are mainly linux servers not windows servers

Linux servers vs windows server.

1. Linux os should not be a user friendly & not reqired good configuration machine linux servers performance is good it taken req very fast way.
2. Windows required good configuration machine.
3. We want to install windows os want to good configuration machines like 4gb ram 1 cpu 10 gb storage
4. Windows servers are user friendly .
5. In real-time not required user friendly servers
6. But install linux os in machine don’t want higer configuration machine like 512 mb ram 1 cpu 1 gb storage sufficient

Because of that reason 90% servers are linux servers

1. What is mean by server management:

Server admin roles and responsibilities:1) server backup

2) providing server security

3)instalizations

4) keep server high availability

1. Ipaddress: ip means identity for machine two machines communicate for using ip address it not enough want port number also

For ex: ip:port.

1. How to make a server(computer) as a web server

In server we can install web server software that server act as a web-server

That web server responds a web request that webserver occupy port number

1. What is server: bare metal
2. Linux server

I have bare metal I install linux os it is called linux server

1. Webserver: I have bare metal install os and install web server that server call web server and web server occupy one port number

means it responds to web requests.

Server

+ os

+webserver

1. Tomcat
2. Apache2
3. Ias for windows
4. weblogic
5. Db server: I have bare metal install os on that os install db server we call as db server and it will be ocuupy one port number.

how to make a our server is database server we can install db software that server is act as a db server

Server

+os

+db software.

1. It is possible to install multiple software in one machine : yes

Server+linux=========10.10.0.1====Mumbai loc

Install in one server

Tomcat,apache2,oracle db,mysql,java,phython

One machine communicate with another machine wants to ip along with port number

Service occupy port number in server

Service response web req

Service means: web server,db server aws services etc…..

One machine having total 0-65535 port numbers

0-65535

Default port numbers os services

Tomcat:8080

Apache2(httpd):80

Oracle db:1521

Mysql db:3306

Postgresql:5432

These are softwares : they don’t want port numbers

Java

phython

1. Amazon.com---------ip address:portnumber------http(80)

Verzon.com ip+port---------https(443)

Browser software by default send req to 80 port number software design like that.

When we send req to one website smaranit.com it will convert to 10.0.10.90:80 by default

1. Putty is a software design for connect to linx server

Ipaddress:portnumber(22)

1. Toad edge design for connect to mysql software

Ipaddress: portnumber(3306)

1. We can’t access db software using of browser.
2. We can connect with db server wants to toad edge software and we give

Ip+port+username+password

1. What is

Software: means it is program some one is developed we are install in our own system.

Service: means software+some additional works it will do it+it will occupy one port number in system to handle external request.

1. I want to start a business e-commerce business.

Through my portal I want to sell 2 mobile brands Samsung,apply so I want to tieup with sam,apple

Requrments

1. Website
2. Server

Dev

Test

Live prod

Go to infra developer take a desing for infrasture for server configuration

16gb ram 4 cpu 10 gb storage

It will take req 100 req/min

Next business grown 500 req/min

So above server configuration not suitable

So goto ifra developer taka a design for 5000 req/min

64 gb ram 4 cpu 1tb storage

Growing all is good

Suddently bad name came no one acess our web-site

Req came only 50 req/min

So previous server is sufficient to current business

So we want to change infrasture bec of users requests

in real time change the infrasture multiple regions

1)because of the load(user requests)

2) bec of server versions

Infrastructure we can easily change easily in cloud but on-permise not that much easy.

How to overwrite these type of things

In small business not enough for 3 servers

In live I taken 1 server that server posiblity to faild

If fail hard-disk is faild all data is correcpted.

We have back-up server but that is not a running condition

From that backup we can take new server it will take 1 or 2 hrs

Obiyasly business is damage

Bocz of power isuues or network issues or site issues server is failure

How can I overcome these problms

These solution given by cloud only all probles solutions given

In cloud

16gb ram 4 cpu 10 gb storage-we can take in aws cloud

Againe business is expand we can easily change server configuration

Again down we can easily change low configuration servers here how you use that much u pay . 1st solution is solver bocz of aws cloud taken rented base.

2nd problem : server faild hard-disk correct in cloud we can take hard disk(volume) snapshot 2nd problem also solved

3rd problem:backup server automatically lunch new server and it will got to running stage in cloud or we can take mutilpe server maine our app in multiple servers now app is high availability it is possible in cloud and small amount their charges so 3 rd problem also solved

3 problems :1) server configuration scalling 2) server faild data is gone 3) backup server not in running stage

1. Network
2. Building
3. Server configuration easily change
4. Server backup
5. Server high avalibility