Class-1  
 Linux-intro

Aws – amazon web service

Azure – Microsoft

On prem data center – database storage place

Command prompt [ ping [www.flipkart.com](http://www.flipkart.com) -t ]

EC2 => server

Aws free tier

* Create an aws account
* Sign up [ sign into existing account ]
* Root user
* Enter the catch
* Enter the passward

How create and delete the server ?

Location – [n-virginia] {region }

If you forget the delete the server , you need to pay the bills

* Services
* Compute
* EC2[click on it ]
* Ec2- elastic compute cloud
* Instances[click on it ]
* Launch instance
* Choose AMI

\* linux, ubuntu , redhat,centos

Which 0s is used in ubuntu ?

Ubuntu 16 or 18 or 20 version

Aws is giving free 750 hr , delete the server after the use[terminate the server]

* T2 [select]

Never decrease the size of the storage

* Tags are consider as giving the name

Linux 22 is linux port number

Windows 3389 port number for windows

Mysql 3306 is port number for mysql

Jenkins 8080

Tomcat 8080

Apche/nginx 80

To login into server[my server]

* Ip
* Username
* Passward

What is ip [search in google ]

Never keep anywhere in security config

How to connect with the server ?

Three methods

1.[gitbash]

Secdlect the instance and connect



Select SSH client and copy example

At key pair do gitbash



Right click and paste – enter

Cd /

Df – h [storage ]



class – 2



2.[mobaxterm]

\* copy ip[public] address

click on connect and Ec2 instance connect copy user name

[download the mobaxterm home edition from the google ]

Open the mobaxterm tool click on session

Click on ssh

Enter the ip address at remote host

Click on advance ssh settings

Tick on use private key and browse the key pair

3.[putty] [it is a .ppk format]

Download putty from putty.org website

Download putty gen

Watch in youtube

Linux commands:-

Touch – to create file

touch filename

ls -list the files

touch file1 file2 file3

folder => directory

mkdir – to create the directory

mkdir folder1 folder2

cd – change directory

cd folder1/

pwd- present working directory

newlookup

cd .. – comeback to one folder back

mv – rename folder

mv oldname newname

mkdir backup1

mkdir backup2

mkdir backup3

ls -l - it shows the when the folder or file is created

date – it shows the date on that day

ls -la – to show the hidden files

ls -lt – sort by time

ls ltr – in reverse formate

cd – to go to home

cd / - main cofig

* Ls

Sudo su[switch user] – to change to super user or root user

Exit – to exit from root user

Sudo mkdir folder1

Ls

Clear – to clear the commands

History – it shows the history we runned

Sudo mv copyfolder pastefolder

rm – remove the files or delete files

rm filename

rm -rf foldername [remove forcefully]- to delete folder

rmdir foldername

rm -rf folder1 folder2

rm -rf \*

touch .filename – to hide file





class-3

vi – to open file

vi filename

nano – to open file

nano filename

esc :wq! – to exit from file[write quite]

Sudo vi filename – by using sudo we get full access to file

I – to insert the data for file

:q!- data without saving quiting the file

how to create the users ?

sudo adduser username – command to create the user

cat – to display the file content

cat filename

cat /etc/passwd – to see the users

how to reset the password for user

* Sudo su
* #- indicates the root user
* Passwd username
* Enter new passwd

How to login in to user

* Cd /etc/ - in server type this command
* R -restart
* Cd /
* Cd /etc/
* Cd ssh
* Ls
* Sudo vi sshd config
* I – it is for inserting
* Passwd authantication click on yes
* Esc :wq!
* Sudo service ssh restart
* Same method to login user same as mobxtrem

Shift + r in user server

* Sudo visudo- in normal server
* User privilege here add the userdetails
* To come out of nano editor
* Ctrl + x
* Shift + y
* Enter

Linux – commands

* Df -h – shows the desk size
* Top – shows how much cpu is used

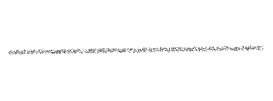
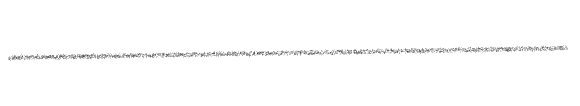
How to download server in to linux server

* Download maven
* .tar copy link adreess
* Sudo wget -get the file from web
* Sudo wget url
* Sudo tar -xvf filename – to unzip the tar file
* Sudo mv oldname newname
* Du -sh – desk usage of a file

Du -sh filename

* Du -sh \*
* Sudo di -sh \*







Class-4

Git/github

Download git

Login into the git-hub account

Folder = repository

* Create repository [public]

How many stages we have in git hub ?

* 1. Working area
* 2. Staging area
* 3. Local repo

Working area:

* Were the developer starts the coding

Staging area:

* The code which is completed in working area is pushed in the staging area
* It is sent using the commands [git add file name ]
* To move all files at time we use [git add . or git add \* or git add -A]
* git status – shows were the file is located
* red color – it is working area
* green color – it is in staging area
* git commit -m – it moves file from staging to local repo , with comment
* git log – to know weather it is in third stage
* git commit -m – to move last repo , with comment

how to add the file to git hub ?

* right click on file place and click git bash here
* it opens command
* ls
* git init – to initializing
* Git status
* Touch filename
* Git add filename
* Git status
* Git commit -m “my code”
* If it shows error of author identification error then [ copy the command suggested by git and config the identity]
* Git log – shows the logs details of the dev or user
* Git remote add origin url
* Git push -u origin master [ master is reflecting as user in cmd]
* And refresh the git hub and see pushed the files

Class-5

If we have create a repo those who need the access only not every one .

How to give collborated access ?

* Open your repo
* Click on repo settings
* Click on manage access
* Enter your password
* Click on invite a collaborator
* Enter the collaborator id or email

Any one can download the code if it is public repo but you can not push code with out collaborated access

Rename by settings in repo

How to change public to private ?

* In settings scroll down to danger zone
* Click on change visibility and change it

How to delete the repo ?

* In the danger zone we can find the delete repo

How to transfer the access ?

* In the danger zone we have the option to change the access by transfer

How to create the alerts when we dev pushes code in repo ?

* In repo settings
* Click notification and give the email and comment [header]

Clone = download

How to download the code?

* Copy the clone url
* Now open the folder were you want to download
* Open the git bash
* \* git clone
* \* enter url
* \* ls – to project
* \* cd foldername

How to check logs ?

* Git log [u will go inside the file ]
* Wq – write and quit
* Git log | grep devname (or) git log - -oneline
* Git log - -author = devname
* Git log - -author = devname - -online
* History – to recent commands
* Git log - -since=yy-mm-dd
* Oneline – it gives the date in oneline
* Git log - -until=yy- mm - dd
* Git log - - since = 2010-01-01 - - until = 2020-01-02 - - author=devname - - oneline