**EC2 SERVICE**

**Support Center –** To solve any kind of query

**Region –** Definition --aws region is a separate geographical areas.

**Avaibility Zone –** Definition --multiple, isolated locations within each region.

1. aws instances types -– google.com
2. Spot Instance – it’s a temporary instance - less than On demand price
3. Reserved Instance – The instance is reserved upto 1 years to 3 years
4. Saving Instance – its provide the lowest prices

1. Windows machin creation / launch instance – after launch – to connect -– and security credential –- and connect to rdp machine.

**Key Pair** –- Definition -- A key pair is a combination of a public key that is used to encrypt data and a private key that is used to decrypt data.

.pem –- open ssh / windows machine

.ppk –- for linux machine

In security grp to exesting and new creation.

1. In security group –- to set the inbound rule --- & outbound rule ---

Inbound rule means -- in the server request

Outbound rule means –- outside the server request

Windows port --- 3389

Ssh ----------- 22

http ------------ 443

/var/www/html --- path - to host the website

1. Volume --- attached to instance and partitions

Volume – action --- modify volume – modify

2 time volume modify after 6 Hours

Create volume

Create volume –- volume type –- size –- same avaibility zone as instance -– create

Select volume –- action -– attach volume – select instance – select device name as optional – attached

1. Snapshot – means to backup the volume

Create snapshot – select volume – description – create snapshot

* Snapshot to create an new volume – menas ek snapshot varun aapn new volume create krtoy – snapshot cha data in new volume

Select a snapshot – action – create volume from snapshot – avaibility zone – create volume

1. Elastc ip -- constant ip – static ip

Elastic IPs -– allociate elastic ip – allocate ---

Associate with ip address -- select instance -– associate

Public ip is fix

1. AMIs – Definition -- Amazon Machine Image (AMI) is a supported and maintained image provided by AWS that provides the information required to launch an instance.

Select instance – action – image & templetes – create image – name the machine – description – size for the machine – create image

Linux

$ lsblk – to check start or not the disk

https://devopscube.com/mount-ebs-volume-ec2-instance/ -----partitions

----------------------------------

Instances State --- IMP

start-stop-stopping-stopped

start-terminate-shutting down-terminated

start-starting-initiliazaing-2/2status check

----------------------------------

Types of Instances --- IMP

https://aws.amazon.com/ec2/instance-types/

----------------------------------

Web server configuration path

/var/www/html/index.html

https://992382556840.signin.aws.amazon.com/console

SHUBH\_SBI\_2

\_pbxL7O[

**IAM SERVICE [ Identity and access management ]**

1. CREATE USER

Users--Create User-- Username ( 1. [tick] Provide aws console management

2. To crete IAM user ) -- Next -- Next -- create user

Send the details to another employee

Go to user – security credential – enable console access – to create a access

https://992382556840.signin.aws.amazon.com/console

Shubh@2

rL2f7{5d

3. User Permission ( Add Permission )

a. Add Permission (AWS permission shownig)

b. Inline Permission ( user/admin to allow the permission to user)

a.Add permission

attachch policies---(to allow the permission)---Next---Add permission

b.Inline Permission--( to set the one by one permission to user / to set the specific instance/volume/snapshot access to user )

In Permission has a specific instances also have attached the permission.

Inline policy -- Attached policy –- resourses – 1. all – 2.specific -- in specific persision to add a specific instance.

4. Group

create a grop to add the user in grp

to set the grp permission at a time – all members to showing a all permissions

user info

https://992382556840.signin.aws.amazon.com/console -- Mayur

bV$3=\*&\_

Hi Darshan,

Your ID has created now, please use below credential to login.

https://269953685979.signin.aws.amazon.com/console

Darshan@12

KpTdI$6[

Thanks,

Bilal inamdar

**VPC Cloud [ Virtual Private Cloud ]**

1.Create VPC

2. craete an internet gateway --- attached to vpc

3.create subnet ---select vpc- subnetname-avaibility zone- ip range--create subnet----------public

4.create subnet ---select vpc- subnetname-avaibility zone- ip range--create subnet----------private

5.create route--select vpc --- create

go to subnet associations then add the public subnet----save

go to routes --- edit routes --- add route--- select ip and internet gateway -----save

6. create instances

a. rdp---windows--keypair-pem--edit--select vpc--select public subnet--auto assign -enable -----launch

b. machin 2 -linux---linux--keypair-ppk--edit--select vpc--select private subnet--auto assign -desable----select security grp to public -----launch

7.go to rdp instance --- connect-- rdp client --download desktop file--get password---upload private key--decrypt--connect to rdp

in rdp to set inboubd rule -- ssh

8. download the putty on rdp

9. create a new route for private subnet .

10. Nat gateway--- name ---select public subnet--public--allocate elastic ip--create

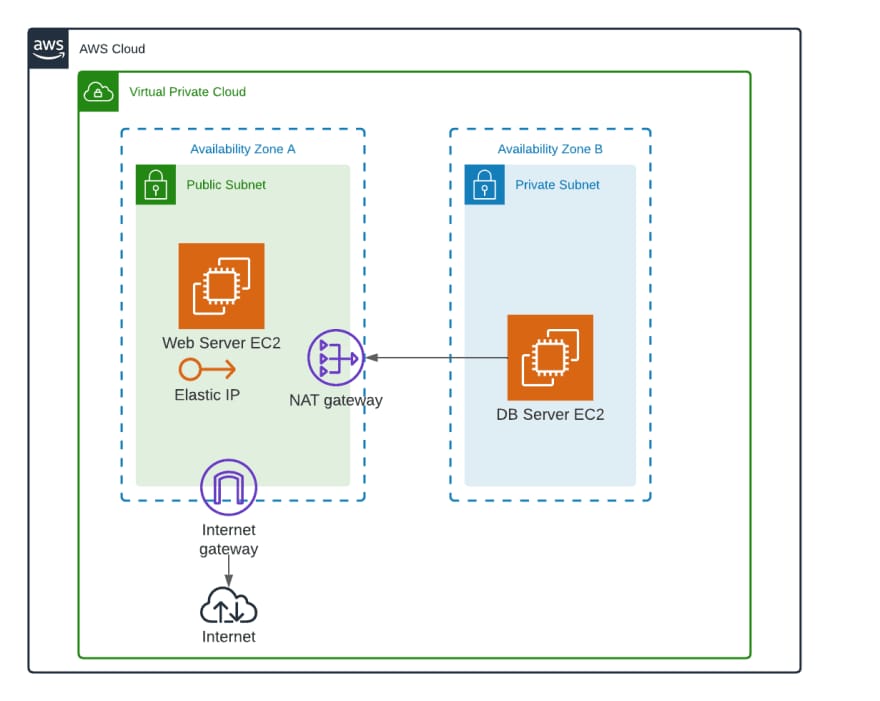
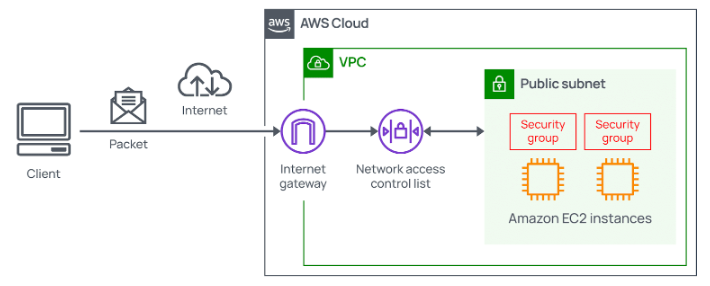
11. In private route to add the net way traffic

12. THIS VPC to attached the Network ACLs –

Create a network acl – name of acl – select VPC – create ACL

To set the inbound and outbound rule for the Network ACLs

In VPC also set the end point of any service

**CLI [ Command Line Interface ]**

Go to IAM – Click on user – security credentials – access keys – CLI

ACCESS KEY -- AKIA6ODU4DKUGHFFAXIT SECRET ACCESS KEY -- 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

step 1-

curl "https://awscli.amazonaws.com/awscli-exe-linux-x86\_64.zip" -o "awscliv2.zip"

unzip awscliv2.zip

sudo ./aws/install

step 2-

aws configure

AWS Access Key ID [None]:

AWS Secret Access Key [None]:

Default region name [None]:

Default output format [None]:

step 3-

aws ec2 describe-instances ----- Checking the instances info

step 4-

aws ec2 modify-volume --volume-id vol-01c24350f5205ce20 --size 10 ----- modify volume

aws ec2 create-volume --size 50 --availability-zone us-east-1a --volume-type gp2 ----- create a new volume

aws ec2 attach-volume --volume-id vol-00f61ad61e5863c00 --instance-id i-0f45d1eb60634bfa0 --device /dev/sdf ----- new volume attach to instance

aws ec2 detach-volume --volume-id YOUR\_VOLUME\_ID --instance-id YOUR\_INSTANCE\_ID --force && aws ec2 delete-volume --volume-id YOUR\_VOLUME\_ID ----- in this query to deteach and delete the volume

aws ec2 delete-volume --volume-id vol-00f61ad61e5863c00 ----- delete volume

aws ec2 create-snapshot --volume-id vol-01c24350f5205ce20 --description "Linux machin snapshot" ----- createc a snapshot

aws ec2 delete-snapshot --snapshot-id snap-0e9b7658f9ca99009 ----- delete snapshot