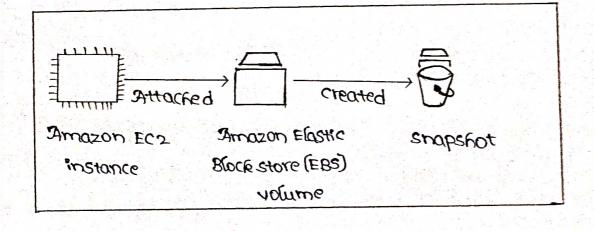
da6-4.

Him: The working with amazon Elastic Block store. (Amazon EBS). Discription:

Amazon Elastic Block Store (Amazon EBS) offers persistent Storage for Amazon EBS. instances. Amazon EBS volumes are network-attached and persist independently from the life of an instance. Amazon EBS volumes are highly available, highly reliable volumes that an be leveraged as an Amazon EC2 instances boot partition (or) attached to a running Amazon Ecz instance as a standard block device. when used as a boot spartition, Amazon EC2 instances can be stopped and subsequently restarted, enabiling you to pay only for the storage resources used while maintaining your instance's state.

Architecture:



steps followed to working with EBS console management:

- *Click Start 66 to Launch a Lab.
- * Wait until you see the message "Lab status: ready".
- * choose [AWS].

Task-1: Create à Men EBS volume:

- * In Aws management console, on the services menu, click EC2.
- *In navigation pane, choose Instances.
- * The Availability zone of the instance. It will book similar to us-east-la.
- * In navigation pane, choose volumes.
- * Choose create volume then configure:
 - o volume type: General purpose SSD (gp 2)
 - · Size (GiB): 1. NOTE: you may be restricted from creating large volumes
 - · Availability zone: safect the same availability zone as our EC2 instance.
 - · o choose Add Tag
 - o In Tag Editor, enter:
 - · key : name
 - · value: my volume
- * choose create volume.

Task-a: Attach the volume to an Instance:

* select my volume.

- * In the Action menu, choose Attach volume.
- * choose the Shotance Aeld.
- * crosse Attach volume

Task-3: connect to our Amazon Ecz instance:

- * Rend through the three bullet points in this step before we Start to complete the actions:
- orhoose the betails and then thoose the show. A credentials window will open.
 - o choose the bownload ppk button and save the labsuser.ppk file
 - other exit the betails panel
- * Downfood needed software.
 - o we will use putty to SSH to Amozon Ecz instances.
- + open putty. exe.
- * consigure purry to not timeout:
 - ochoose connection
 - oset seconds between keepalives to 30
- * consigure our putty session:
 - orhoose session.
 - o Host Name: paste the public DNS or 1PV4 address of lab instance.
 - · Back in purty, in the connection list, expand [] SSH
 - ochoose Auth and expand I credentials.
 - ounder private key file for authentication: choose Browse

- · Browse to Cobsuser. ppk file, choose open.
- ochoose open again.
- * To trust and connect to fast, choose accept
- * when prompted Login as, enter: ecz-user
 - . This will connect we to the Ecz instance.

macos and Linux users.

- * Read through the three bullet points in this step before we start to complete the actions:
- o choose the Details and then choose the Ishow. A credentials window will open.
 - o thoose the pownload button and save the Labsuser pern file.
 - o then exit the details panel.
- * open a terminal window, and change directory cd to directory where the Labsuser. pem tile was downloaded.
 - ofor example, run this command.

cd ~ Downbods.

* change the permissions on key to be read only by running this command.

chmod 400 labsuser. pem.

- * Deturn to Aws management console, and in Eczservices, choose Instances.
- * In Details tab, copy the public IPV4 address value.

* Return to terminal window and run this command. SSF -: Labsuser. pem ecz-user@cpublic-ip>

*Type yes.

Task 4: create and configure our file system.

* view the storage available on our instance:

df - 6

*create au 6243 tile distem ou non nolume: sudo mkfs -+ ext3 |dev| sdf

* create a directory for mounting the new storage volume: sudo mkdir Imnt-Idata-store.

* sworms the new norme:

Sudo mount Idea / Sdf / mnt/data-store.

* view the configuration file to see the setting on Last line: cat letc|fsta6

* view the available storage again:

df -6.

* create a sile and odd some text to it sudo sh - c " etho some text has been written > 1 mn+1 data-store I file text ".

*verify that text has been written to our volume.

cat I mont I data-store I sie. + 2+.

Task 5 - create an Amazon EBS snapshot"

- * In the Awsmanagement console, choose volumes and select
- *9n the Actions menu, select create snapshot.
- * choose [Add tag] then configure:
 - · Key: Name
 - · value: my snapshot
 - · Choose (create snapshot)
- *90 navigation pane, choose the snapshots.
- * In our remote SSH session, delete the file that you created on

Sudo im Imntidata - store life . tat.

* verify that the file has been deleted.

[s | mnt | data-store |

TOSK-6: Restore the Amazon EBS Snapshot:

Cleare à notinne rising our substot.

- * In the AWS management console, select my snapshot.
- . In the Actions menu, select create volume from snapshot.
- * For Availability zone select same availability zone.
- * choose [Add tag] then consigure:
 - o Ken : yours
 - · value : Restored volume
 - · choose [create volume

Attach the Restored volume to our Ecz instance.

- * In navigation pane, choose volumes
- * select restored volume.
- * In the Action menuselect Attack volume.
- * choose the Systamice field.
- * choose Attach volume.

The volume state is now in-use.

- Mount the Restored volume.
- *create a directory for mounting the new storage volume. sudo mkdir mnt Idata-store 2.
- * mount the new volume.

Sud o mount Iden 1 Sdg 1 mont I data - store 2.

* verify that volume we mounted has the file that we created earlier.

25 Imrit Idata-Store 2)

* choose [End lob] and then click [yes] to consim that we want to end the dab.