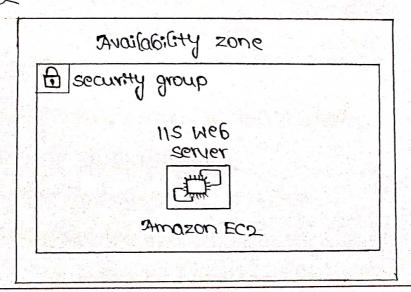
dab-3:-

Aim: To introduce a Amazon Ecz.

Description:

Amazon Elastic compute cloud (Amazon Ecz) is a web service that provides resizable compute capacity in the cloud. It is designed to make web-scale. Goud computing easier of developers. Amazon EC2 Simple web services interface allows you to obtain and consigure capacity with minimal friction. 5+ provides you with complete control of our computing resources and dets we run on Amazon's proven computing Environment. Amazon Ecz changes the economics of computing by allowing to pay only for capacity that actually use. Amozon EC2 Drovides developers the tools to build failure resilient applications and isolate themselves from common failure scenarios.

Architecture:



Etens follomed to introduce à Amozon Eco console

management:

- * choose start lab to Launch the lab.
- * Wait until we see the message "Lab status: ready".
- * choose Aws.

Task-1: Launch Amazon Ecz instance:

- *In the AWS management console, choose services, choose compute and then choose Ecz.
- * choose the founch instance menu and select founch instance. Step-1: Name and tags.
- * Give the instance the name web server.

step-9: Application and Os Smages (Amazon Machine Image):

- * Keep default Amazon Linux AMI selected.
- * Also keep the default Amazon Linux 2023 Ami selected.

etter:3: Abstance type:

*In the Instance type panel, keep the default ta-micro selected.

Step-4: Key pair [login]:

* For key pair name - required, choose vockey.

Step-5: Metwork settings:

- * year to betwork settings, choose Edit.
- * For upc, select 106 upc.

- *Under Firewall (security groups), choose @ create security group and configure.
 - · security group name: Web server security Group.
 - · Description: security group for my web server.
 - · under Thound security group rules. Remove exists rules.

Eteb-e: confidure stolade:

* In configure storage section, keep the default settings.

step-7: Advanced details:

- * Expand > Advanced details
- * For Termination protection, select Enable.
- *Scroll the bottom of page and then copy and paste the code shown below into the userdata box:

#116001605R

dry install - y fitted

systemet 1 enable 64pd

systemet 1 share httpd

echo 'z fitm[>zhi > Hello from your web server! xhi>x | html>! > lvar/www/ftmc/index.ftmc

steb-8: gonnice the instance:

- *In summary panel , choose downch instance.
- * (hoose view all instances.
 - o In instance Cist, select web server.
 - o Review the information displayed in the petails tab.

- * wait for instance to display the following:
 - · Instance state: Or unning
 - o status check: @ 2/2 thecks passed.

Pask-a: Donitor the instance:

- * Choose the Status checks tab.
- * choose the monitoring tab.
- * In the Action menu, select monitor and troubleshoot >
 Get system log.
- * The HTTP parkage was installed from the userdata that added when we created the instance.
- * choose cancel
- * Ensure web server is still selected. In the Actions menu, select anonitor and troubleshoot > Get instance screenshot.
- * choose cancel

Task-3: update the security group and Access the web server:

- * Ensure webserver is still selected. choose the betails tab.
- * copy the public IPV4 address of our instance.
- * open a new tabin your web blowser, pask the 10 address you just copied. then press Enter.
- * keep the Growser tab, but return to the EC2 console tab.
- * In novigation pone, choose security Groups.
- * select web server security group.

- * choose the Infound rules tab.
- * choose the Edit inbound rules, select Add rule and then consigure.
 - othbe: Harb
 - o source: Anywhere-1714
 - o choose save rules.
- * Return to well server tab and refresh 2 the page.

Jose-4: Desize the elustance: anotance The and EBS rollime: Stop the Instance:

- * on the EC2 management console in navigation paner choose Sustances. Mel server should already be selected.
- *In Instance State menu, select stop instance.
- *choose stop.
- * wait for the stance state to display: stopped.

change the instance type:

- * In Action menu, select Instance settings > change instance type. then configure:
 - o Shotance Type: +2. Small
 - o choose Apply.

Resize the EBS Yournes.

- * choose the storage tab.
- * In the Action menu, select modify volume.
- * Increase the size of disk and change the size to: 10.
- * choose modify.

- * choose modify again to confirm and increase the size of volume.

 start the Resized Systance:
- * In navigation pone, choose Instances.
- *select the Meb server instance.
- *In the instance state + menu, select start instance.

Task-5: Explore EC2 Limits:

- * In Aws management console, In services, starch for and choose service auotas.
- * choose Aws services from navigation menu and search for ecz. and choose Amazon Elastic compute cloud (Amazon Ecz).
- * In find quotas search bar, search-for running on-demand.

Task-6: Test termination protection:

- *In Aws management console, In services, search for and choose Ecz to return to Ecz console.
- *In havigation pone, choose Instances.
- * select the web server instance and in instance state * menu, select terminate instance.
- *Then choose reminate.
- # In Action renu, select Instance settings refange termination Drotection.
- * Pernove the check heat to DEnable
- * choose save, we can now terminate the instance.

VVIT

*select the web server instance again and in Sinstance state meny, select terminate instance.

*choose reminate.

* Choose [END Lab] and choose [Yes] to confirm that we want to end the Eab.