AWS Learning

1. Sign Up to AWS

Fill up the form and that’s it

1. AWS Budget setup

Account 🡪 my account billing dashboard 🡪 click budget 🡪 cost budget 🡪

Enter amount 0.01

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5. AWS Fundamental
6. AWS Regions

AWS has many region and each region has availability zone called AZ

1. IAM Introduction

IAM stand for identify and Access Management

AWS Whole Security based on

Users

Groups

Role

All services based on IAM

1. IAM Hands On

Login to AWS 🡪 Click Services 🡪 Select IAM 🡪 Create admin user and group and login to AWS with own username

1. EC2 Introduction

EC2 is the main service of AWS. It give below functionalities

Virtual machine (EC2)

Storing data on Virtual Drive (EBS)

Distributing Load Balancing (ELB)

Auto Scaling group (ASG)

Creating EC2 Instance

Login to AWS account 🡪 choose EC2 🡪 Check region 🡪 click lunch EC2 🡪 Choose amazon linux 2 AMI option 🡪 type of VM choose 🡪

1. SSH to EC2

We can easily SSH to EC2 from linux , Mac and windows or we can use EC2 Instance connect utility to SSH EC2 Instance.

ssh -i private\_key ec2-user@ip\_address

chmod 0400 private\_key

1. How to SSH to EC2 from linux

Issue the command above

1. SSH to EC2 VM from Windows OS using putty

Install putty in windows 🡪 start putty gen 🡪 load private key 🡪 save private key 🡪 file name .ppk 🡪 open putty 🡪 enter ec2-user@ip\_address 🡪 then click on authentication 🡪 SSH 🡪 give path to our private key 🡪 click connect

19. connecting to EC2 uisng ec2 connect

20. Introduction to Security Groups

Security Groups are fundamental of network security in AWS

They control the traffic in / out of our EC2

It’s very essential for troubleshooting networking issues

How to all inbound / outbound ports

Go to security group 🡪 here we can setup inbound on inbound tab and

outbound on outbound tab and Tab as well

21. Security Groups Deeper Dive

SG are working like firewall on EC2

They regulate access to port, authorized the IP

Inbound / outbound traffic

SG can be assign to multiple instance

Instance can have multiple SG as well

All inbound are blocked and all outbound are authorized by default

22. Private and Public IP vs Private IP and Elastic IP

IP v4 or IP v6

Elastic IP is public IP address which will not change with stop or restart of VM

23. Each VM have public & private IP address

To create Elastic IP 🡪 click elastic IP from left side 🡪 click allocate 🡪 now right

click the VM 🡪 Click Associate address 🡪 choose instance name and click

associate. Do dis-associate elastic IP 🡪 right click the vm 🡪 choose dis-associate address

24. create EC2 instance and configure as webserver by Apache

25. EC2 User Data

User Data is option under the advance Details of VM creation page. User Data is

used to enter script which will at time VM boot time.