

## **AWS Session 12**

## 8-3-2023

- Three ways to use AWS:
  - 1. WebUI (Console/Portal)
  - 2. **CLI** Command line interface(makes things easy/simpler, automate, use script)
  - 3. **API** (mobile application)
- To create own commands we can use CLI.
- PRACTICAL- Launching Instance through CLI

In Command Prompt

To check aws version: aws --version

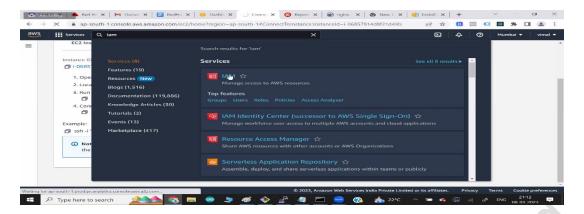
```
Microsoft Windows [Version 10.0.19044.2604]
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C:\Users\Vimal Daga>aws --version
aws-cli/2.10.2 Python/3.9.11 Windows/10 exe/AMD64 prompt/off

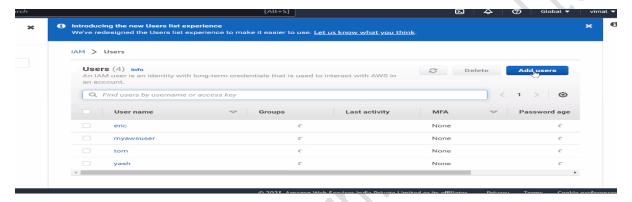
C:\Users\Vimal Daga>
```

To login: aws configure

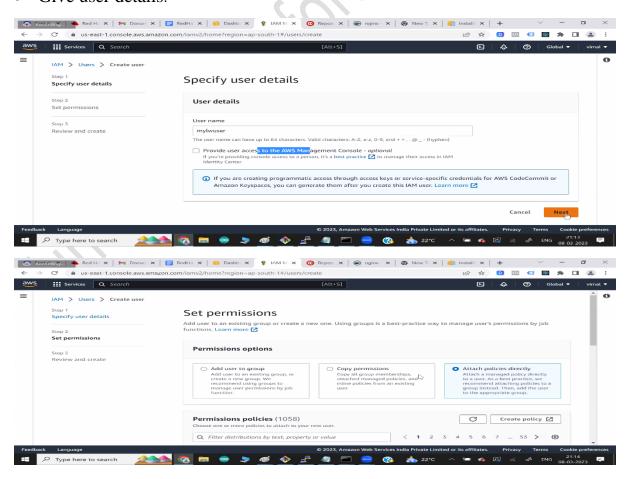
• In one single system we can access multiple accounts can be made. Before that we will create user in IAM.

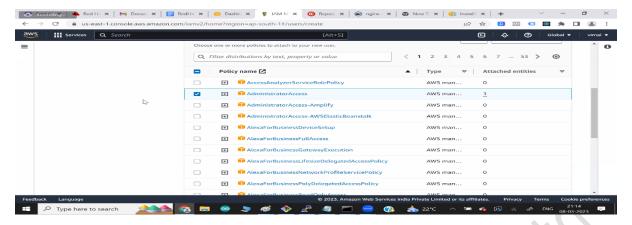


Now add users.

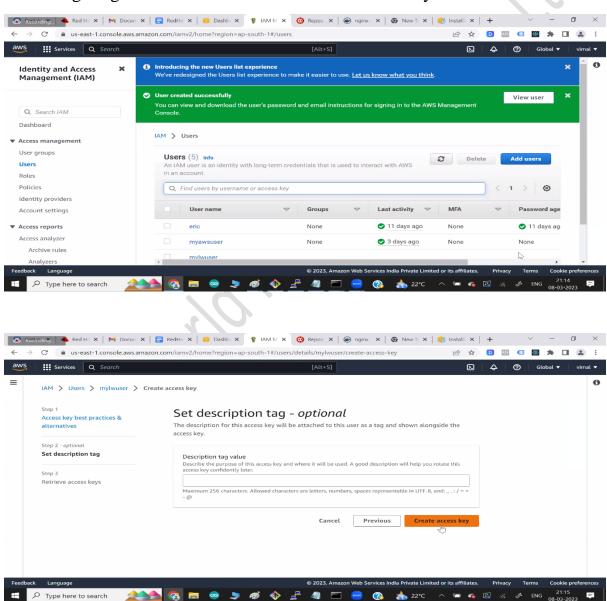


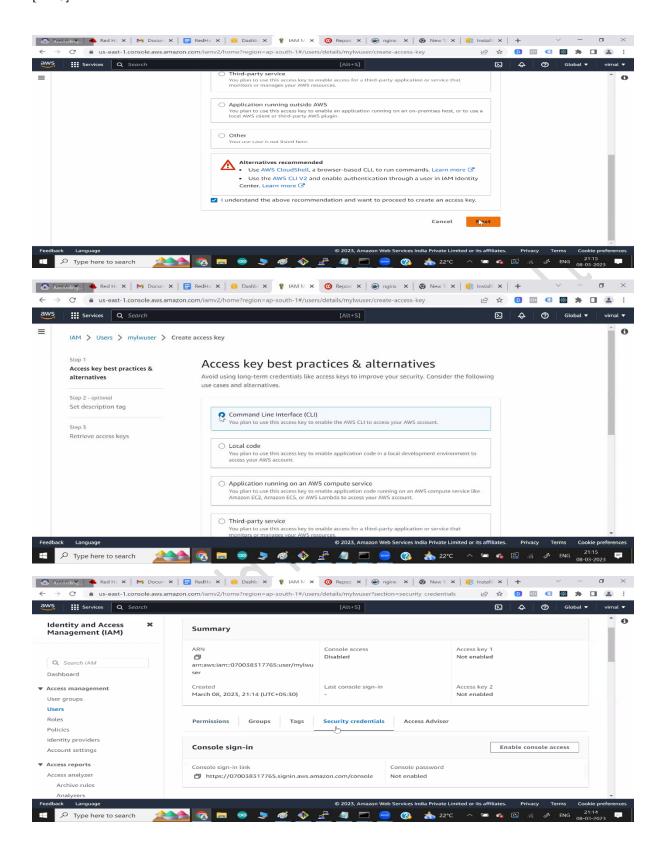
Give user details.

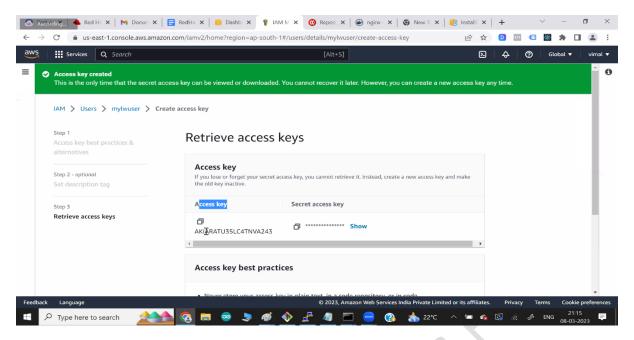




• After giving details click on craete the user named mylwuser will be created.







 Now in CLI to configure we will write the command aws configure --profile mylw

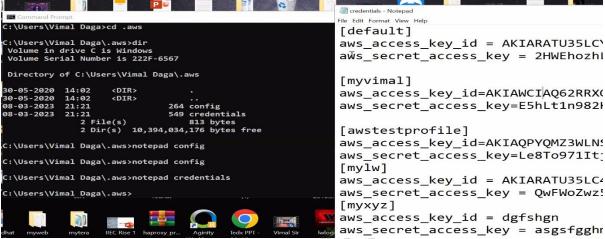
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Microsoft Windows [Version 10.0.19044.2604]
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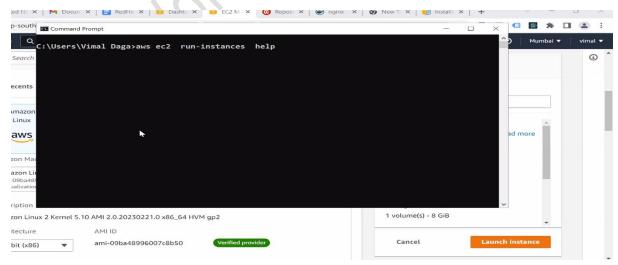
C:\Users\Vimal Daga>aws configure --profile mylw
AWS Access Key ID [None]: __
```

• Add the details in the required field like give access key and secret key. Also give region in our case region: ap-south-1.



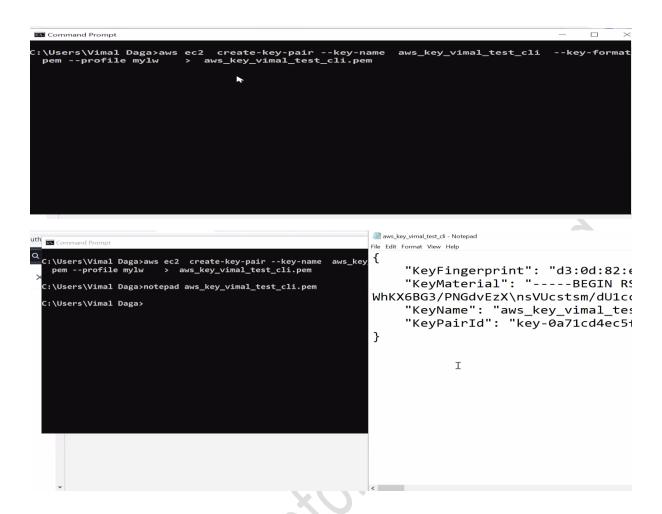


- aws –help command shows all services which aws supports.
- Subcommands is the other facility which we want to give to that particular service.
- Synopsis contains the options that a particular service contains.
- Now to use any service like ec2 we will use help to search other features inside that. Command- aws ec2 run-instances help



To create key use command: **aws ec2 create-key-pair --key-name key\_name\_cli --key-format pem --profile profile\_name > file.pem** 

Note: here > file.pem is the file in which key details will be stored.

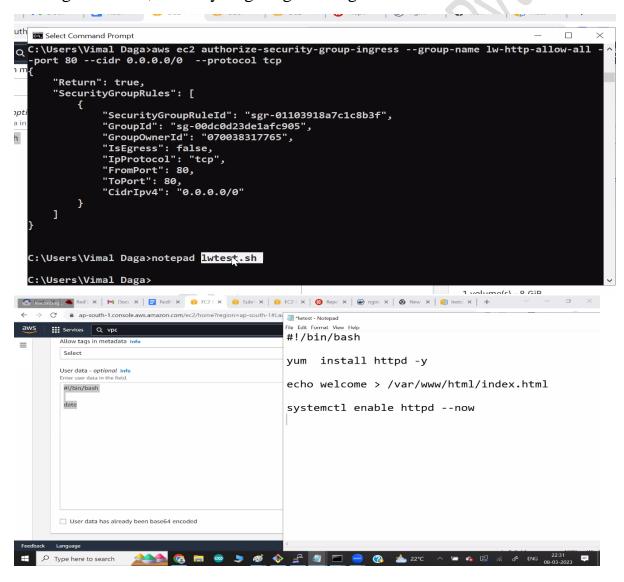


 We can also check in AWS Console screen by goining in key pairs in network and security.

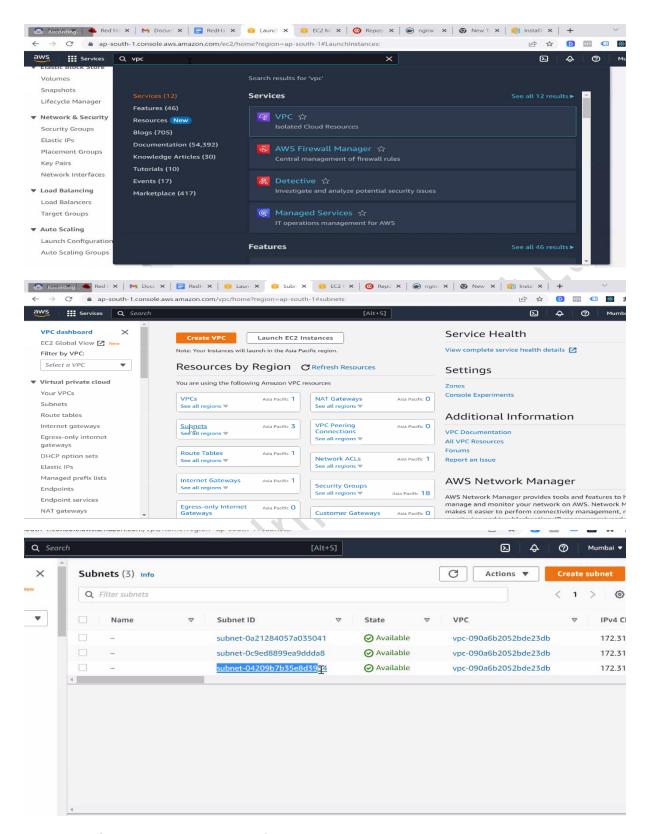
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ith Command Prompt - aws ec2 create-security-group --group-name lw-http-allow-all --profile mylw --description "my lw test sg from...
                                                                                                 -no-paginate
     [--output <value>]
     [--query <value>]
[--profile <value>]
     [--region <value>]
 C:\Users\Vimal Daga>aws ec2 create-security-group --group-name lw-http-allow-all --profile m
 v1w
 usage: aws [options] <command> <subcommand> [<subcommand> ...] [parameters]
 To see help text, you can run:
    aws help
    aws <command> help
    aws <command> <subcommand> help
 aws: error: the following arguments are required: --description
 C:\Users\Vimal Daga>aws ec2 create-security-group --group-name lw-http-allow-all --profile m
 ylw --description "my lw test sg from allow all to web http"
    _ _
```

aws ec2 create-security-group --group-name group\_name --profile mylw --description "describe"

- Every OS/AMI gives AMI ID So whenever we launch instance, internally AWS use ID called ami-ID.
- Every availability zone belongs to different subnet(The way through which we select own Avalability zone).
- Webserver works on the protocol called HTTP which works on port=80. Allowing this is a rule.
- Anybody from internet denoted by IP 0.0.0.0/0 defines any IP in the world. Also referred as as source.
- Anything coming from internet to webserver it is called Inbound/Ingress.
- Group is more like a firewall, by default blocks everything.
- Cidr Whenever we create a rule and in rule we give protocol and we give source, this way of giving the range is called CIDR.



• To know the security group Use VPC service and then choose subnets and choose subnet id.



To create instance use command –

aws ec2 run-instances --instance-type t2.micro --key-name key\_name --count 1-image-id image\_id --profile profile\_name --subnet-id subnet\_id --security-group-ids security\_group --user-data file://file.sh



• To check copy the IP of the instance and check in browser.



welcome

