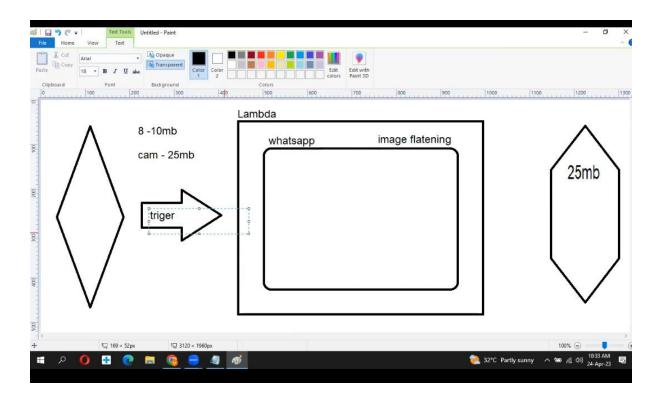
#### LAMBDA

#### LAMBDA SERVERLESS developer tool



#### LAMBDA RUNS ON TRIGER



Compute -- lambda

Compute

9:00 to 6:00 clk

### **AWS Lambda**

## lets you run code without thinking about servers.

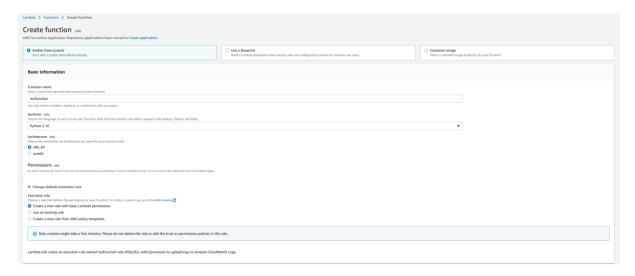
You pay only for the compute time that you consume — there is no charge when your code is not running. With Lambda, you can run code for virtually any type of application or backend service, all with zero administration.

net
Python
net core
Node js
Ruby

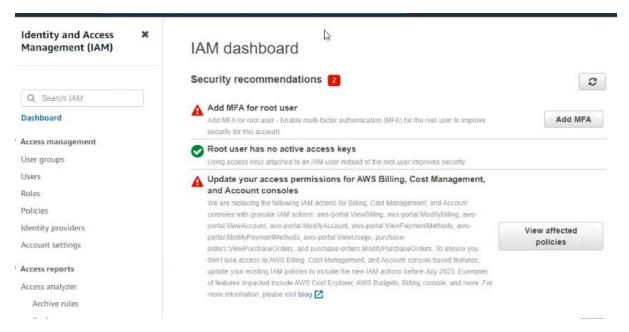
LAMBDA FUNCTION
Senior developer
Code – python

In this scenario
We use python code to delete everything we mentioned in that code

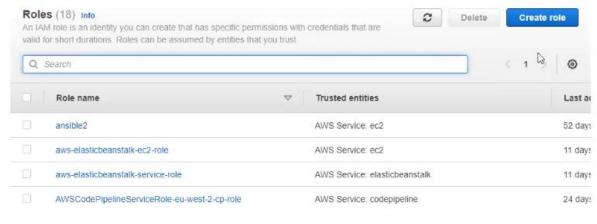
- (\*) create EC2 server in Mumbai, Singapore and London
- (\*) refer delete python code 78 lines cleanall.py
- (\*) create function in lambda
- (\*) in permissions we need to create roles using IAM function



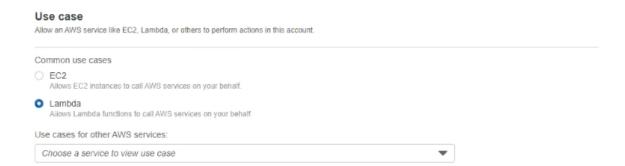
#### (\*) IAM Dashboard create roles



#### (\*) create roles



#### (\*) use case lambda



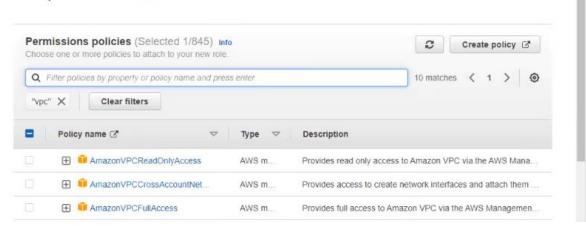
Cancel Next

#### (\*) EC2 full access



#### (\*) vpc full access

#### Add permissions Info

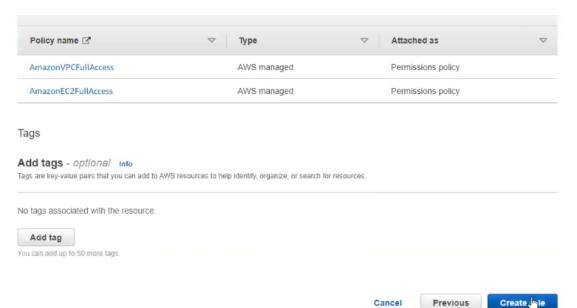


#### (\*) name and review

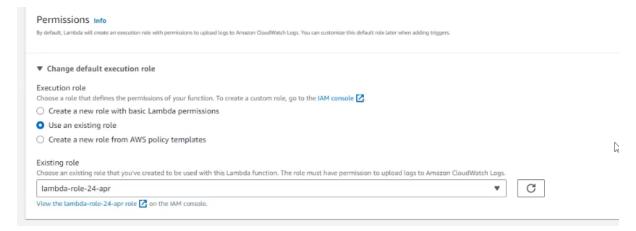
#### Name, review, and create

# Role name Enter a meaningful name to identify this role. Iambda-role Maximum 64 characters. Use alphanumeric and '+=,,@-\_' characters. Description Add a short explanation for this role. Allows Lambda functions to call AWS services on your behalf.

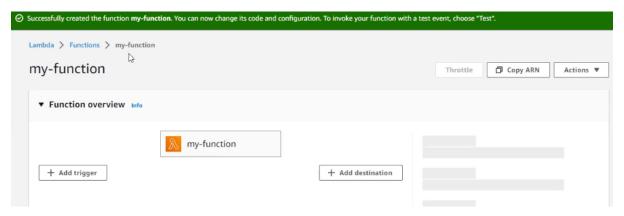
#### (\*) create role



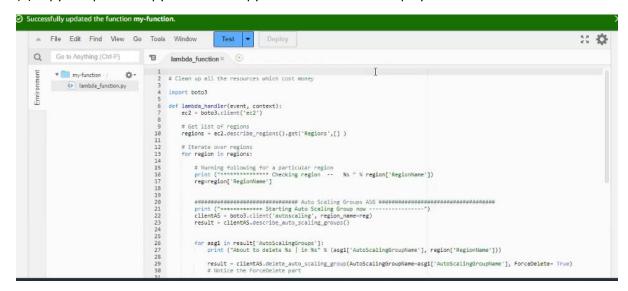
#### (\*) in permissions apply IAM ROLE – CREATE function



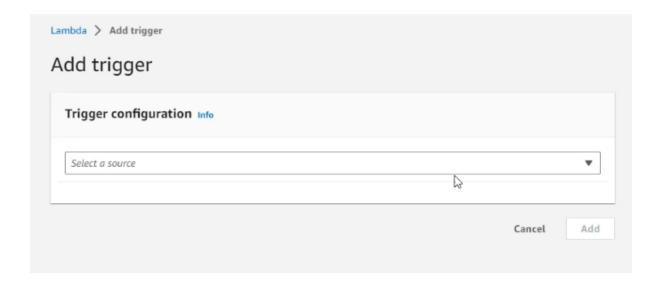
#### (\*) function has been created



(\*) copy and paste the python cleanall.py code in the editor -- deploy



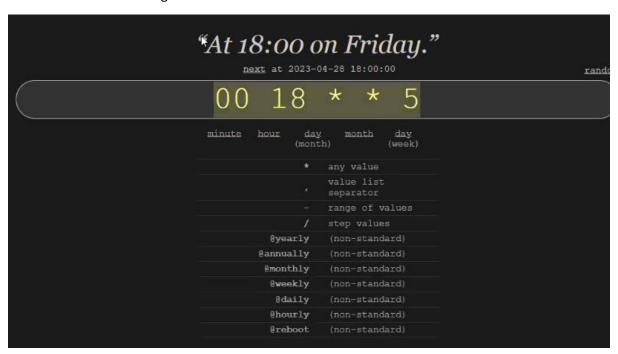
- (\*) if we test the code the ec2 and other functions in all regions get terminated
- (\*) event based and time based trigger time based



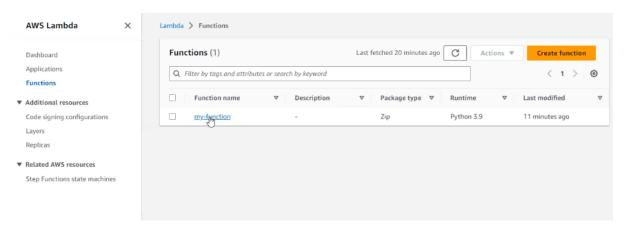
#### (\*) event trigger

Event bridge uses cron

Cron is used for scheduling



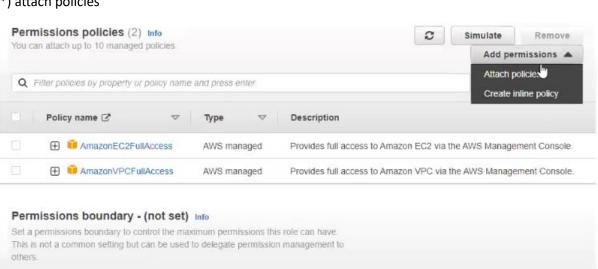
#### (\*) go to lambda functions



- (\*) we are going to give access to cloud watch role
- (\*) go to IAM select existing role

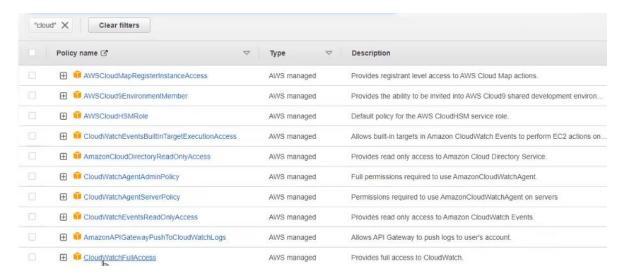


#### (\*) attach policies

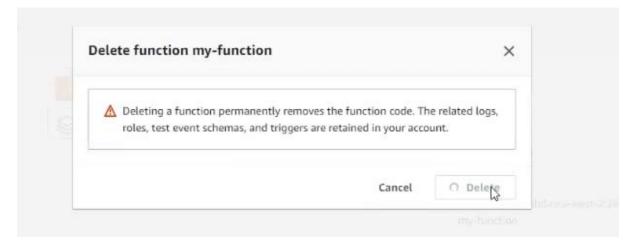


Set permissions boundary

#### (\*) cloud watch full access—add permissions



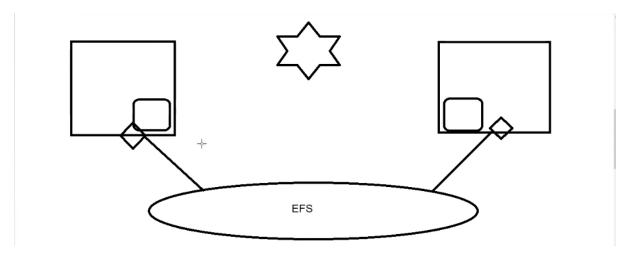
#### (\*) action-delete function



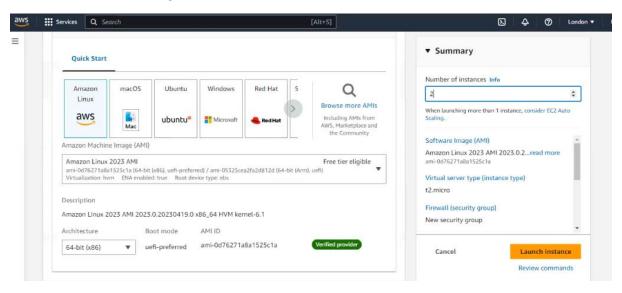
#### **ELASTIC FILE SYSTEM EFS**

#### Common file system

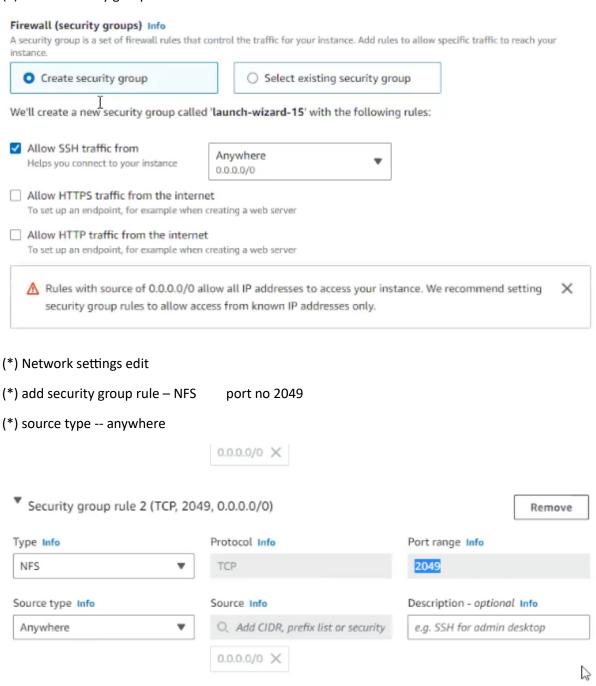
#### Storage --- EFS



- (\*) First create 2 servers with same configuration ec2 linux instance
- (\*) NFS network file sharing

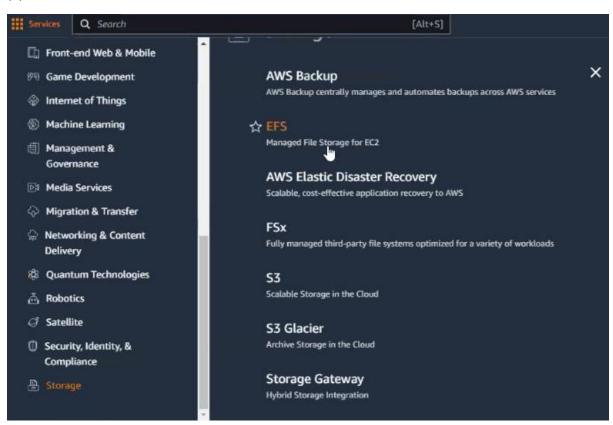


#### (\*) create security group NFS

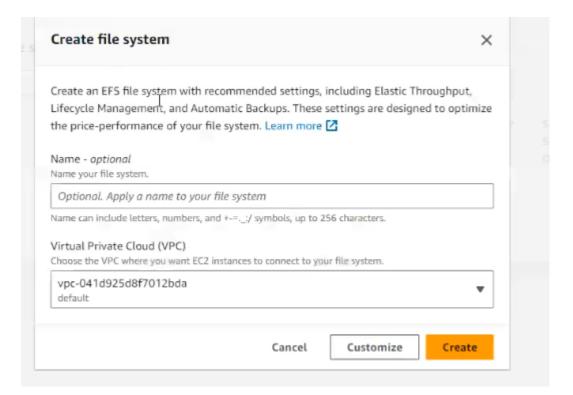


- (\*) volume 8gb --- launch instance
- (\*) 2 instances with same configuration created

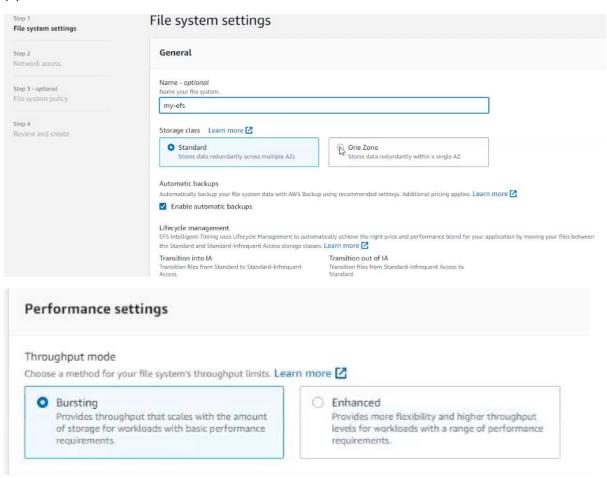
#### (\*) create EFS STORAGE -- EFS



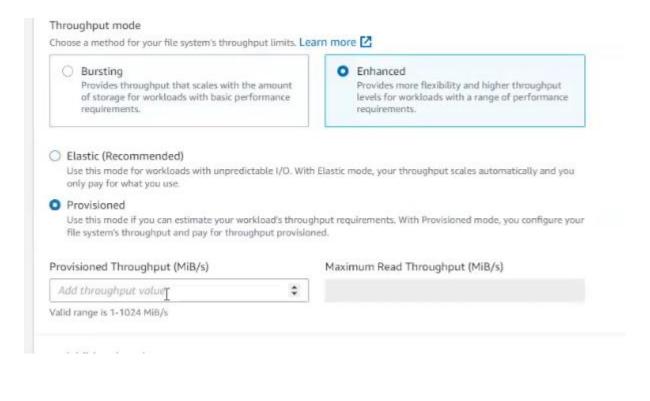




#### (\*) customize



In enhanced we can select the data transferring speed --- provision



#### ▼ Additional settings

applications

#### Performance mode

Set your file system's performance mode based on IOPS required. Learn more

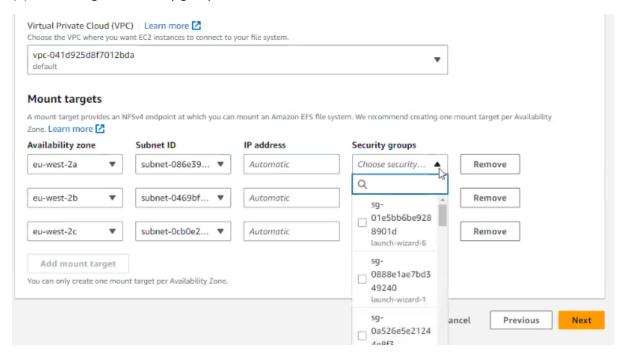
 General Purpose (Recommended)
 Ideal for a variety of diverse workloads, including high performance and latency-sensitive

O Max I/O

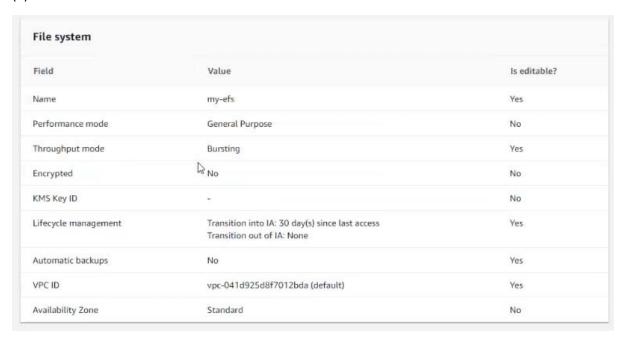
Designed for highly parallelized workloads that can tolerate higher latencies

#### (\*) network access

#### (\*) mount targets – security groups -- nfs



- (\*) file system policy next
- (\*) review-- create



(\*) file system created

Mounting the file system

- (\*) login to server A using putty white
- (\*) login to server b using putty black

```
15 list X @ ec2-user@ip-172-31-45-200:~
 login as: ec2-user
Authenticating with
y
ey" from agent
                                                                                                     Authenticating with public key "imported-openssh-
key" from agent
     Authenticating with public key "imported-openssh-k
                                                                                                         I__'__
                                Amazon Linux 2 AMI
                                                                                                                                  Amazon Linux 2 AMI
                                                                                          C
https://aws.amazon.com/amazon-linux-2/
                                                                                                  https://aws.amazon.com/amazon-linux-2/
l package(s) needed for security, out of 8 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-45-201 ~]$ [
                                                                                                 1 package(s) needed for security, out of 8 available Run "sudo yum update" to apply all updates.

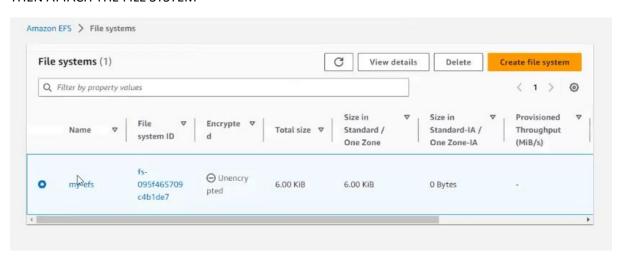
[ec2-user@ip-172-31-45-200 ~]$
                                                                                       ⊘ Runni
                                                                                       ⊘ Runni
                                                                                        Status ch
                                                                                       dress copi
                                                                                       8.134.205
                                                                                       nce state
                                                                                       inning
```

```
[ec2-user@ip-172-31-45-200 ~]$ sudo -i
[root@ip-172-31-45-200 ~]# pwd
[ec2-user@ip-172-31-45-201 ~]$ sudo su
[root@ip-172-31-45-201 ec2-user]# pwd
                                                            ⊘ Runni
/home/ec2-user
                                                                    /root
                                                            Runni
[root@ip-172-31-45-201 ec2-user]# mkdir test
                                                                    [root@ip-172-31-45-200 ~]# mkdir new
[root@ip-172-31-45-201 ec2-user]# 1
                                                                    [root@ip-172-31-45-200 ~]# ls
bash: 1: command not found
                                                                    new I
[root@ip-172-31-45-200 ~]# |
[root@ip-172-31-45-201 ec2-user]# ls
[root@ip-172-31-45-201 ec2-user]#
                                                             Status ch
```

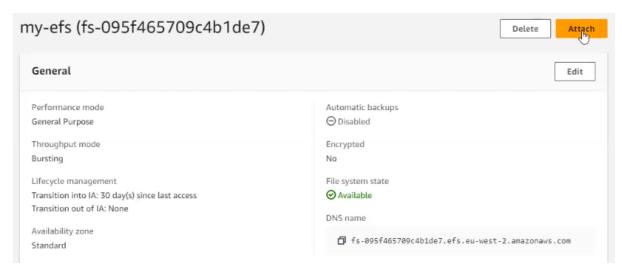
#### Create directories A TEST

#### **B NEW**

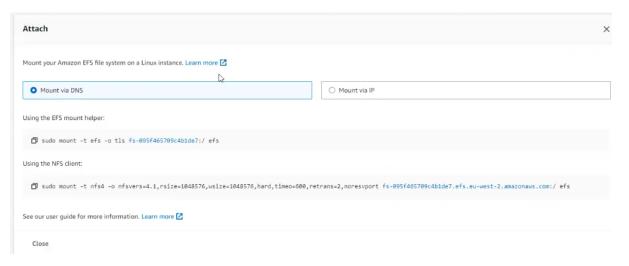
#### THEN ATTACH THE FILE SYSTEM

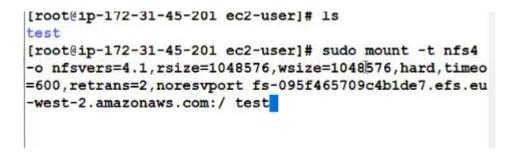


#### (\*) SELECT ATTACH



(\*) connect using NFS CLIENT copy the public link and paste it in machine A instead of efs change the directory name to test

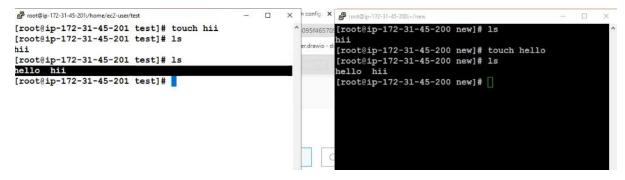




(\*) for machine B copy and paste the public link instead of efs change the directory name to new

(\*) nothing in both the directories

- (\*) then create a file in machine A NAMED hii check the same in machine b it will show the same file
- (\*) create a new file in machine B TOUCH HELLO it will show in machine A



It is called common file system sharing