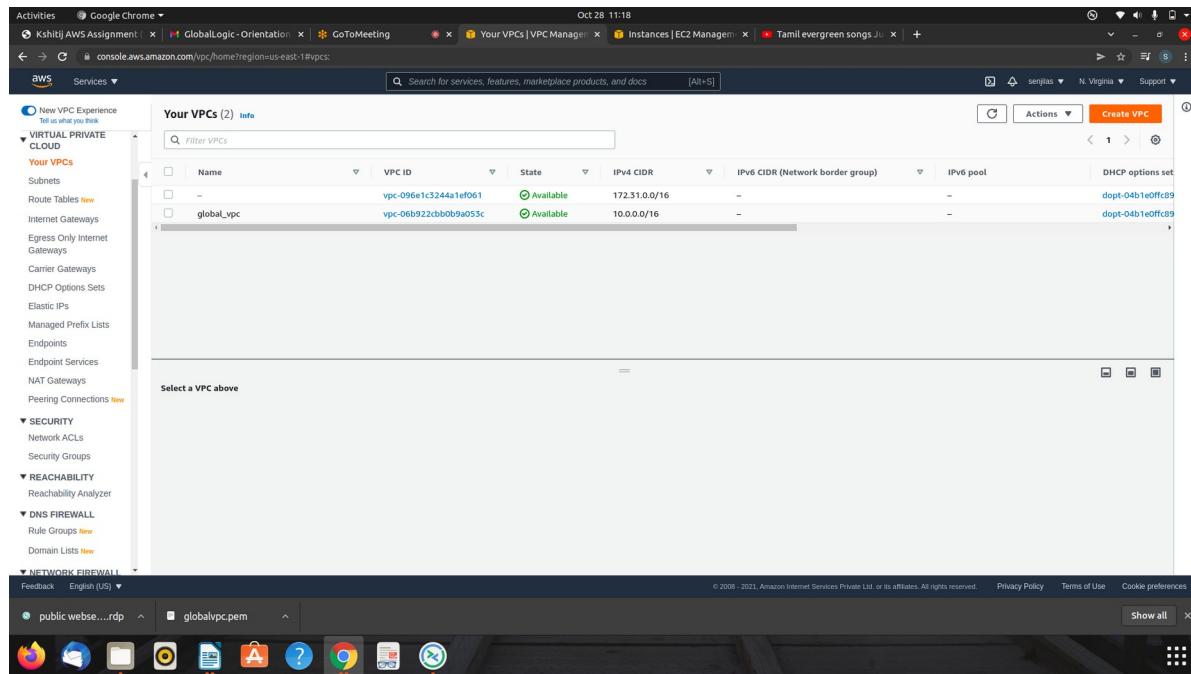


# AWS ASSIGNMENTS

Submitted by  
senjila s

1)  
**VPC- Create Public subnet( will access internet ) & private Subnet( Will access internet through NAT Gateway)**

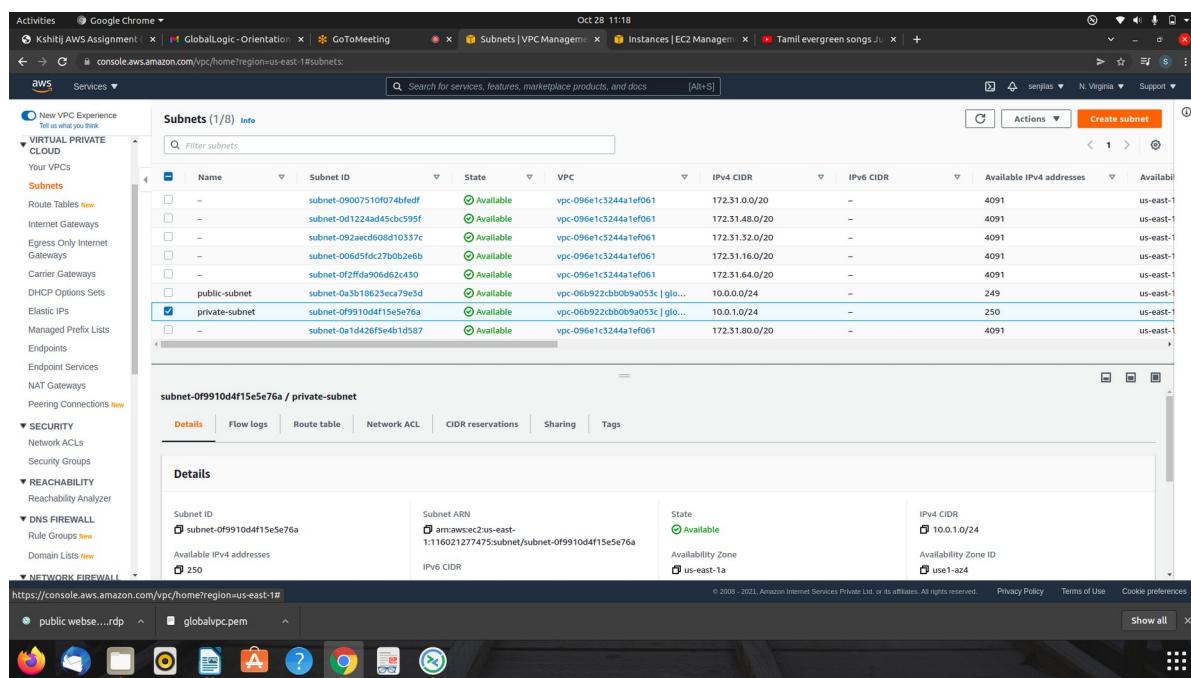
**Solution:-**



The screenshot shows the AWS VPC Management console. On the left, there's a sidebar with various VPC-related options like Route Tables, Internet Gateways, and NAT Gateways. The main area displays two VPCs:

Name	VPC ID	State	IPv4 CIDR	IPv6 CIDR (Network border group)	IPv6 pool	DHCP options set
vpc-096e1c3244a1ef061	Available	172.31.0.0/16	-	-	-	dopt-04b1e0ff:89
global_vpc	Available	10.0.0.0/16	-	-	-	dopt-04b1e0ff:89

Below the table, it says "Select a VPC above". At the bottom, there's a toolbar with icons for different services.



The screenshot shows the AWS Subnets management console. The sidebar includes options like Route Tables, Internet Gateways, and NAT Gateways. The main area shows a list of subnets under the 'private-subnet' VPC:

Name	Subnet ID	State	VPC	IPv4 CIDR	IPv6 CIDR	Available IPv4 addresses	Available
public-subnet	subnet-0a3b1623eca79793d	Available	vpc-096e1c3244a1ef061	172.31.64.0/20	-	4091	us-east-1
private-subnet	subnet-0f9910d4f15e5e76a	Available	vpc-096e1c3244a1ef061	172.31.16.0/20	-	250	us-east-1
-	subnet-006d51c27b0b2e6b	Available	vpc-096e1c3244a1ef061	172.31.16.0/20	-	4091	us-east-1
-	subnet-02ffd8906d62c430	Available	vpc-096e1c3244a1ef061	172.31.64.0/20	-	4091	us-east-1
-	subnet-0a3b1623eca79793d	Available	vpc-096e1c3244a1ef061	10.0.0.0/24	-	249	us-east-1
-	subnet-09910d4f15e5e76a	Available	vpc-096e1c3244a1ef061	10.0.1.0/24	-	250	us-east-1
-	subnet-0a1d426f5e4b1d587	Available	vpc-096e1c3244a1ef061	172.31.80.0/20	-	4091	us-east-1

Below the table, it says "subnet-0f9910d4f15e5e76a / private-subnet". Underneath, there are tabs for Details, Flow logs, Route table, Network ACL, CIDR reservations, Sharing, and Tags. The Details tab is selected. At the bottom, there's a toolbar with icons for different services.

Activities Google Chrome Oct 28 11:19

Kshitij AWS Assignment | GlobalLogic - Orientation | GoToMeeting | Route tables | VPC Manager | Instances | EC2 Management | Tamil evergreen songs Jukebox | +

console.aws.amazon.com/vpc/home?region=us-east-1#RouteTables:

AWS Services N. Virginia Support

New VPC Experience Tell us what you think

VIRTUAL PRIVATE CLOUD Your VPCs Subnets Route Tables Internet Gateways Egress Only Internet Gateways Carrier Gateways DHCP Options Sets Elastic IPs Managed Prefix Lists Endpoints Endpoint Services NAT Gateways Peering Connections

SECURITY Network ACLs Security Groups REACHABILITY Reachability Analyzer DNS FIREWALL Rule Groups Domain Lists

NETWORK FIREWALL

Route tables (3) Info Filter route tables

Name	Route table ID	Explicit subnet associations	Edge associations	Main	VPC	Owner ID
-	rtb-0aab52443925f3db	-	-	Yes	vpc-096e1c3244a1ef061	116021277475
private	rtb-0bdadda8dees51383a	subnet-0f9910d4f1se5e...	-	Yes	vpc-06b922cbb0b9a053c   glo...	116021277475
public	rtb-0cab046c8f90eb454	-	-	No	vpc-06b922cbb0b9a053c   glo...	116021277475

Select a route table

Feedback English (US) Show all

public webse....rdp globalvpc.pem

© 2008 - 2021, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. Privacy Policy Terms of Use Cookie preferences

Activities Google Chrome Oct 28 11:19

Kshitij AWS Assignment | GlobalLogic - Orientation | GoToMeeting | Internet gateways | VPC Manager | Instances | EC2 Management | Tamil evergreen songs Jukebox | +

console.aws.amazon.com/vpc/home?region=us-east-1#igws:

AWS Services N. Virginia Support

New VPC Experience Tell us what you think

VIRTUAL PRIVATE CLOUD Your VPCs Subnets Route Tables Internet Gateways Egress Only Internet Gateways Carrier Gateways DHCP Options Sets Elastic IPs Managed Prefix Lists Endpoints Endpoint Services NAT Gateways Peering Connections

SECURITY Network ACLs Security Groups REACHABILITY Reachability Analyzer DNS FIREWALL Rule Groups Domain Lists

NETWORK FIREWALL

Internet gateways (2) Info Filter internet gateways

Name	Internet gateway ID	State	VPC ID	Owner
-	igw-01a502bca86c13232	Attached	vpc-096e1c3244a1ef061	116021277475
internet-g-global	igw-09779cbbdf2f9de689	Attached	vpc-06b922cbb0b9a053c   global_vpc	116021277475

Select an internet gateway above

Feedback English (US) Show all

public webse....rdp globalvpc.pem

© 2008 - 2021, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. Privacy Policy Terms of Use Cookie preferences

Activities Google Chrome ▾

Oct 28 11:23

console.aws.amazon.com/ec2/v2/home?region=us-east-1#instances:

AWS Services ▾

New EC2 Experience Tell us what you think

EC2 Dashboard

EC2 Global View

Events

Tags

Limits

Instances Instances New

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances Reserved Instances New

Dedicated Hosts

Scheduled Instances

Capacity Reservations

Images AMIs

Elastic Block Store Volumes

Snapshots

Lifecycle Manager Lifecycle Manager New

Network & Security

Feedback English (US) ▾

public webse...rdp globalvpc.pem

Select an instance above

Oct 28 11:17

© 2008 - 2021, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. Privacy Policy Terms of Use Cookie preferences

Show all

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 IP	Elastic IP
-	i-0955609478ecba832	Terminated	t2.micro	-	No alarms	us-east-1a	-	-	-
private-database	i-0680b097f621b7ffaa	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a	-	-	-
public-webserver	i-018dc7be1294df251	Running	t2.micro	2/2 checks passed	No alarms	us-east-1a	23.20.33.107	-	-

Activities Google Chrome ▾

Oct 28 11:17

console.aws.amazon.com/vpc/home?region=us-east-1#NatGateways:

AWS Services ▾

New VPC Experience Tell us what you think

VIRTUAL PRIVATE CLOUD

Your VPCs

Subnets

Route Tables Route Tables New

Internet Gateways

Egress Only Internet Gateways

Carrier Gateways

DHCP Options Sets

Elastic IPs

Managed Prefix Lists

Endpoints

Endpoint Services

NAT Gateways NAT Gateways New

Peering Connections Peering Connections New

SECURITY Network ACLs

Security Groups

REACHABILITY Reachability Analyzer

DNS FIREWALL Rule Groups Rule Groups New

Domain Lists Domain Lists New

NETWORK FIREWALL

Feedback English (US) ▾

public webse...rdp globalvpc.pem

Create NAT gateway

NAT gateways (1/1) Info

nat-gateway

Name	NAT gateway ID	Connectivity type	State	State message	Elastic IP address	Private IP address	Network interface ID	VPC
nat-gateway	nat-065527a2f5baaaa4a	Public	Available	-	44.199.158.216	10.0.0.98	eni-0bce8475b0ddcebcb0	vpc-06b92

nat-065527a2f5baaaa4a / nat-gateway

Details Monitoring Tags

**Details**

NAT gateway ID nat-065527a2f5baaaa4a	Connectivity type Public	State Available	State message -
Elastic IP address 44.199.158.216	Private IP address 10.0.0.98	Network interface ID eni-0bce8475b0ddcebcb0	VPC vpc-06b922ccb0b9a053c / global_vpc

© 2008 - 2021, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. Privacy Policy Terms of Use Cookie preferences

Show all

2) Host EC2 Instance with Linux OS & host website  
 Solution:-

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic IP
~	i-03a3d225b1415f78d	Terminated	t2.micro	-	No alarms	us-west-2a	ec2-34-220-91-144.us...	34.220.91.144	-
3rd	i-0a0261430eb8b36b	Running	t2.micro	2/2 checks passed	No alarms	us-west-2a	ec2-34-220-91-144.us...	34.220.91.144	-
aws-3rd	i-0a0b6a356ed9db287	Running	t2.micro	2/2 checks passed	No alarms	us-west-2a	ec2-54-245-180-115.us...	54.245.180.115	-

```


e → o # us-west-2.console.aws.amazon.com/ec2/v2/console/instances/i-0a0b6a356ed9db287
3 package(s) needed for security, out of 15 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-34-115 ~]$ systemctl status httpd
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; enabled; vendor preset: disabled)
     Active: active (running) since Wed 2021-10-27 16:45:54 UTC; 3min 29s ago
       Docs: man:httpd.service(8)
      Main PID: 3367 (httpd)
        Status: "Total requests: 1; Idle/Busy workers: 100/0;Requests/sec: 0.00478; Bytes served/sec: 2 B/sec"
      CGroup: /system.slice/httpd.service
              ├─3367 /usr/sbin/httpd -DFOREGROUND
              ├─3368 /usr/sbin/httpd -DFOREGROUND
              ├─3369 /usr/sbin/httpd -DFOREGROUND
              ├─3370 /usr/sbin/httpd -DFOREGROUND
              ├─3371 /usr/sbin/httpd -DFOREGROUND
              └─3372 /usr/sbin/httpd -DFOREGROUND

Oct 27 16:45:54 ip-172-31-34-115.us-west-2.compute.internal systemd[1]: Starting The Apache HTTP Server...
Oct 27 16:45:54 ip-172-31-34-115.us-west-2.compute.internal systemd[1]: Started The Apache HTTP Server.
[ec2-user@ip-172-31-34-115 ~]$ curl 172.31.34.115
1.1.1.1:80PBACK_UP LOWER_UP 65536 qdisc noqueue state UNKNOWN group default qlen 1000
  link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
  inet 127.0.0.1/8 brd 127.255.255.255 scope host lo
    valid_lft forever preferred_lft forever
    inetet 127.0.0.1/8 brd 127.255.255.255 scope host lo
      valid_lft forever preferred_lft forever
      link/ether 06:ca:07:e0:77 brd ff:ff:ff:ff:ff:ff
      inet 172.31.34.115/20 brd 172.31.47.255 scope global dynamic eth0
        valid_lft 38320sec expires 38320sec
        inet6 fe80::4c07:7aff:fe07:a077/64 scope link
          valid_lft forever preferred_lft forever
[ec2-user@ip-172-31-34-115 ~]$ curl 172.31.34.115
Hello World
[ec2-user@ip-172-31-34-115 ~]$

```

i-0a0b6a356ed9db287 (aws-3rd)  
 Public IPs: 54.245.180.115 Private IPs: 172.31.34.115

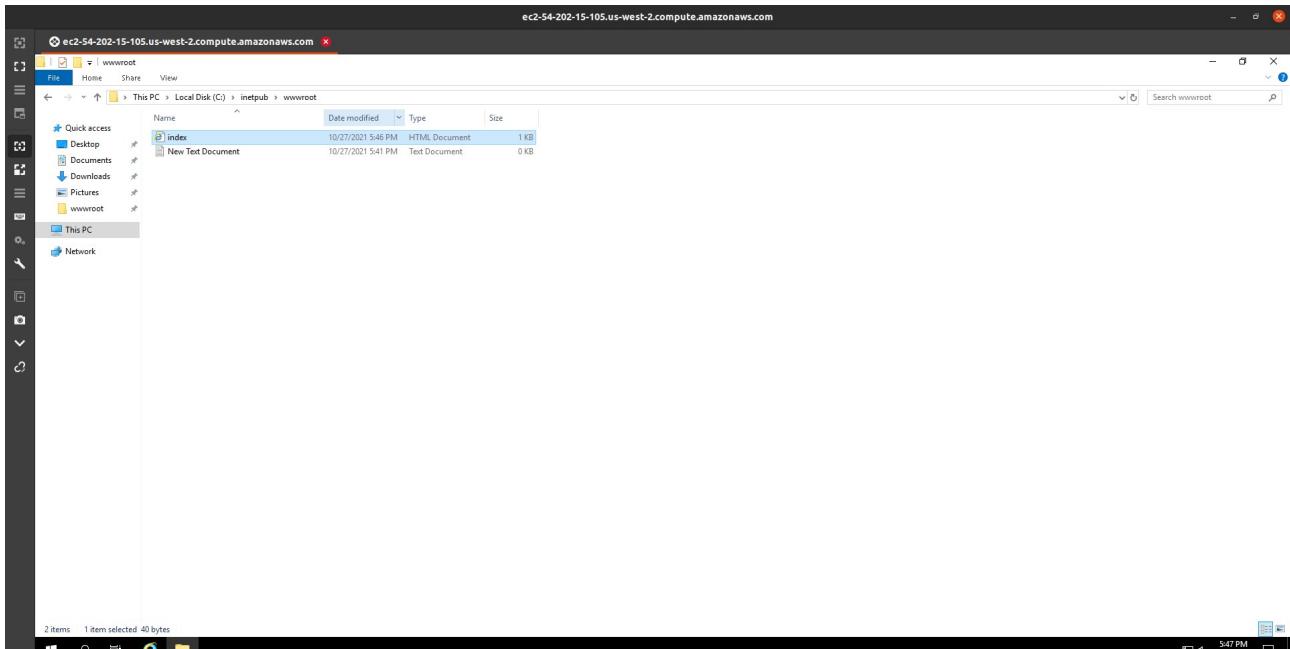
### 3) Host EC2 Instance with Windows as OS & Host website using IIS Webserver Solution:-

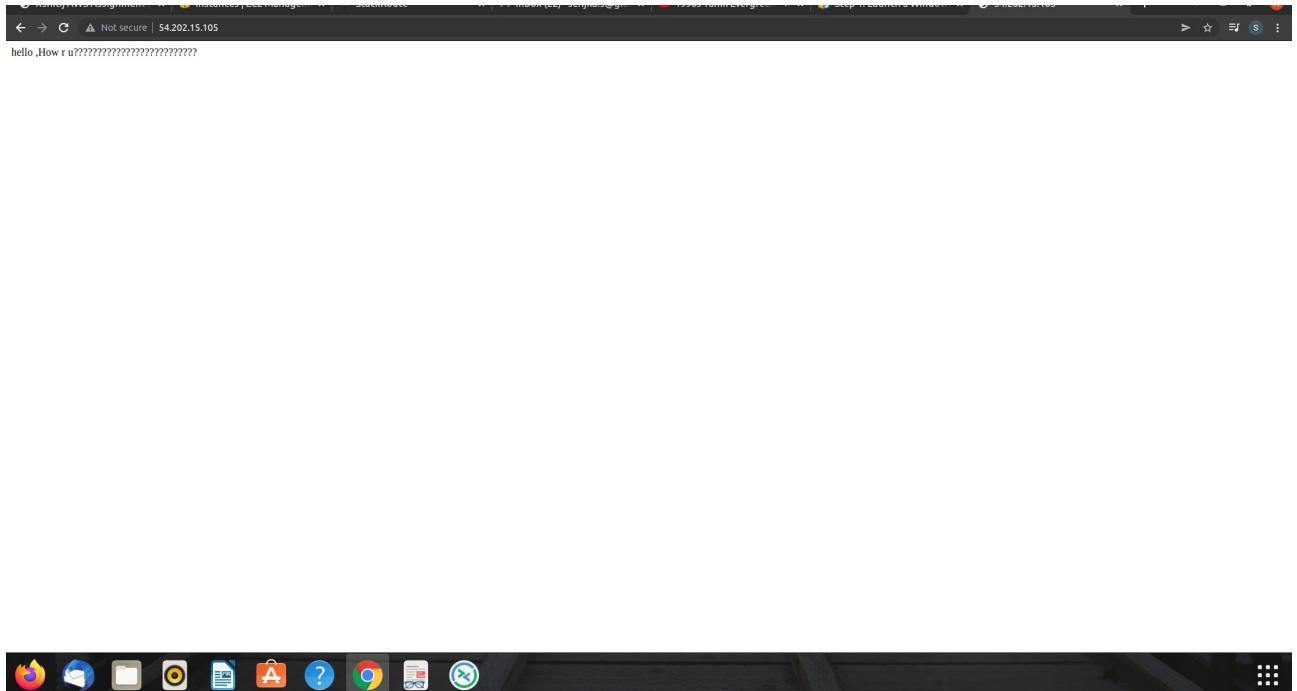
The screenshot shows the AWS EC2 Instances page. On the left, there's a sidebar with various navigation options like EC2 Dashboard, Events, Tags, Limits, Instances, Images, Elastic Block Store, Network & Security, and Feedback. The main area displays a table of instances:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic IP	IF
3rd	i-0aa0261430eb8b36b	Terminated	t2.micro	-	No alarms	us-west-2a	-	34.220.91.144	-	-
aws-3rd	i-0a0b6a356ed9db287	Terminated	t2.micro	-	No alarms	us-west-2a	-	54.245.180.115	-	-
windows	i-056d007c53d355653	Running	t2.micro	2/2 checks passed	No alarms	us-west-2a	ec2-54-202-15-105.us-west-2.compute.amazonaws.com	54.202.15.105	-	-

The "Details" tab is selected for the windows instance, showing its configuration:

- Instance ID: i-056d007c53d355653 (windows)
- IPv6 address: -
- Private IPv4 DNS: ip-172-31-39-54.us-west-2.compute.internal
- VPC ID: -
- Public IPv4 address: 54.202.15.105 | open address
- Instance state: Running
- Instance type: t2.micro
- AWS Compute Optimizer finding: -
- Private IPv4 addresses: 172.31.39.54
- Public IPv4 DNS: ec2-54-202-15-105.us-west-2.compute.amazonaws.com | open address
- Elastic IP addresses: -
- IAM Role: -





#### 4)Create S3 Bucket create Bucket policy to ListBuckets.

Solution:-

The screenshot shows the 'Edit bucket policy' page in the AWS S3 console. The policy is defined as follows:

```
1  {
2   "Id": "Policy1635361720063",
3   "Version": "2012-10-17",
4   "Statement": [
5     {
6       "Sid": "Stmt1635361650134",
7       "Action": [
```

The screenshot shows the AWS IAM Policy Generator interface. The policy being edited is for bucket `arn:aws:s3:::abc01234`. The policy document is as follows:

```
1  {
2    "Id": "Policy1635361720063",
3    "Version": "2012-10-17",
4    "Statement": [
5      {
6        "Sid": "Stmt1635361650134",
7        "Action": [
8          "s3:ListAllMyBuckets",
9          "s3:ListBucket",
10         "s3:ListBucketMultipartUploads",
11         "s3:ListBucketVersions",
12         "s3:ListJobs",
13         "s3:ListMultiRegionAccessPoints",
14         "s3:ListMultipartUploadParts"
15       ],
16       "Effect": "Allow",
17       "Resource": "arn:aws:s3:::abc01234",
18       "Principal": [
19         "AWS",
20           [
21             "arn:aws:iam::213250102049:user/krish"
22           ]
23       ],
24     },
25     {
26       "Sid": "Stmt1635361717820",
27       "Action": [
28         "s3:CreateBucket"
29       ]
30     }
31   ]
32 }
```

The screenshot shows a Microsoft Word document titled `WHO WILL CRY WHEN U DIE.doc`. The document contains the following text:

**WHO WILL CRY  
WHEN YOU DIE**  
- ROBIN SHARMA

THE TRAGEDY OF LIFE IS NOT DEATH, BUT WHAT WE LET DIE INSIDE OF US WHILE WE LIVE.  
- NORMAN COUSINS

Contents

Preface

1. Discover Your Calling  
2. Every Day, Be Kind to a Stranger

5) Configure RDS database & access from EC2 Linux instance  
Solution:-

```

ec2-user@ip-172-31-95-100:~$ mysql -h globallogicdb.cg9eozmwiuob.us-east-1.rds.amazonaws.com -u admin -p dbglobal
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MySQL connection id is 45
Server version: 8.0.23 Source distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MySQL [dbglobal]> show databases;
+-----+
| Database |
+-----+
| dbglobal |
| information_schema |
| mysql |
| performance_schema |
| sys |
+-----+
5 rows in set (0.00 sec)

MySQL [dbglobal]> use dbglobal;
Database changed
MySQL [dbglobal]> show tables;
Empty set (0.00 sec)

MySQL [dbglobal]> create table emp(
-> name varchar(39),
-> id varchar(19)
-> );
Query OK, 0 rows affected (0.03 sec)

MySQL [dbglobal]> show tables;
+-----+
| Tables_in_dbglobal |
+-----+
| emp |
+-----+
1 row in set (0.00 sec)

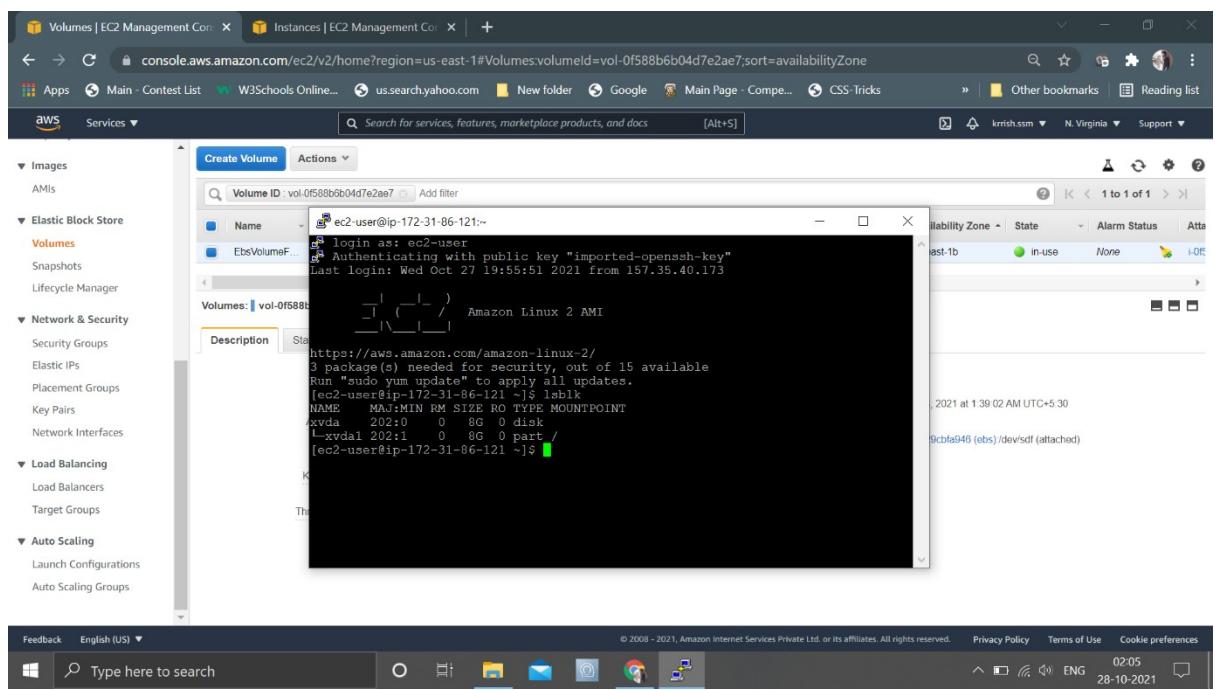
MySQL [dbglobal]> select * from emp;
Empty set (0.00 sec)

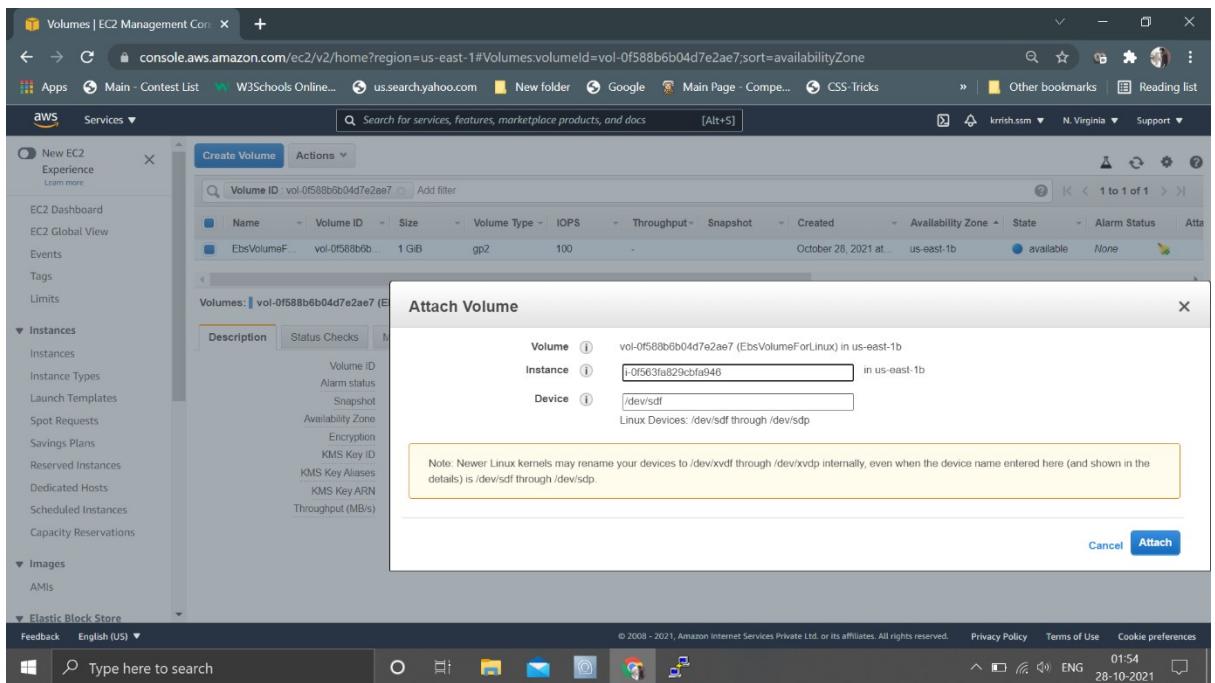
Windows Taskbar: Type here to search | ○ | 📁 | 📎 | 📧 | 🌐 | 🚙 | 📱 | 🖥 | 23:46 | ENG | 27-10-2021

```

## 6) Create EBS & attach to Linux ec2 Instance

Solution:-





```

ec2-user@ip-172-31-86-121:~ 
[ec2-user@ip-172-31-86-121 ~]$ login as: ec2-user
[ec2-user@ip-172-31-86-121 ~]$ Authenticating with public key "imported-openssh-key"
Last login: Wed Oct 27 19:55:51 2021 from 157.35.40.173
[ec2-user@ip-172-31-86-121 ~]$ 
[ec2-user@ip-172-31-86-121 ~]$ lsblk
NAME   MAJ:MIN RM SIZE RO TYPE MOUNTPOINT
xvda   202:0    0  8G  0 disk
└─xvda1 202:1    0  8G  0 part /
[ec2-user@ip-172-31-86-121 ~]$ lsblk
NAME   MAJ:MIN RM SIZE RO TYPE MOUNTPOINT
xvda   202:0    0  8G  0 disk
└─xvda1 202:1    0  8G  0 part /
xvdf   202:80   0  1G  0 disk
[ec2-user@ip-172-31-86-121 ~]$ 

```

## 7) Configure EFS & make available file system on 2 Linux Ec2 Instance Solution:-

```
--> Finished Dependency Resolution
Dependencies Resolved
=====
Package           Arch      Version       Repository   Size
=====
Installing:
amazon-efs-utils    noarch   1.31.2-1.amzn2      amzn2-core     46 k
Installing for dependencies:
stunnel            x86_64   4.56-6.amzn2.0.3    amzn2-core   149 k
Transaction Summary
=====
Install 1 Package (+1 Dependent package)
Total download size: 195 k
Installed size: 479 k
Downloading packages:
(1/2): amazon-efs-utils-1.31.2-1.amzn2.noarch.rpm | 46 kB 00:00:00
(2/2): stunnel-4.56-6.amzn2.0.3.x86_64.rpm        | 149 kB 00:00:00
-----
Total          Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Installing : stunnel-4.56-6.amzn2.0.3.x86_64      1/2
  Installing : amazon-efs-utils-1.31.2-1.amzn2.noarch 2/2
  Verifying   : stunnel-4.56-6.amzn2.0.3.x86_64      1/2
  Verifying   : amazon-efs-utils-1.31.2-1.amzn2.noarch 2/2
Installed:
  amazon-efs-utils.noarch 0:1.31.2-1.amzn2
Dependency Installed:
  stunnel.x86_64 0:4.56-6.amzn2.0.3
Complete!
[root@ip-172-31-41-152 ec2-user]#
```

```
Total download size: 195 k
Installed size: 479 k
Downloading packages:
1/2): amazon-efs-utils-1.31.2-1.amzn2.noarch.rpm | 46 kB 00:00:00
2/2): stunnel-4.56-6.amzn2.0.3.x86_64.rpm        | 149 kB 00:00:00
-----
Total          Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Installing : stunnel-4.56-6.amzn2.0.3.x86_64      1/2
  Installing : amazon-efs-utils-1.31.2-1.amzn2.noarch 2/2
  Verifying   : stunnel-4.56-6.amzn2.0.3.x86_64      1/2
  Verifying   : amazon-efs-utils-1.31.2-1.amzn2.noarch 2/2
Installed:
  amazon-efs-utils.noarch 0:1.31.2-1.amzn2
Dependency Installed:
  stunnel.x86_64 0:4.56-6.amzn2.0.3
Complete!
root@ip-172-31-41-152 ec2-user]# ls
root@ip-172-31-41-152 ec2-user]# mkdir efsdir
root@ip-172-31-41-152 ec2-user]# sudo mount -t efs -o tls fs-0e42c5d414f8a9d78:/ efsdir
root@ip-172-31-41-152 ec2-user]# df -h
Filesystem      Size  Used Avail Use% Mounted on
/dev/xvda1     8.0G  1.5G  6.6G  19% /
tmpfs          492M   0B  492M  0% /dev/shm
mpfs          492M  460K  492M  1% /run
mpfs          492M   0B  492M  0% /sys/fs/cgroup
dev/xvda1     8.0G  1.5G  6.6G  19% /
mpfs          99M   0B  99M  0% /run/user/1000
27.0.0.1:/    8.0E   0B  8.0E  0% /home/ec2-user/efsdir
root@ip-172-31-41-152 ec2-user]# cd efsdir/
root@ip-172-31-41-152 efsdir]# touch a1 a2
root@ip-172-31-41-152 efsdir]# ls
1  a2
root@ip-172-31-41-152 efsdir]#
```

New EC2 Experience Tell us what you think

**Instances (1/2) Info**

Filter instances

Instance state: running

Clear filters

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic IP
EFS-01	i-054035283ecb55ddc	Running	t2.micro	2/2 checks passed	No alarms	ap-south-1a	ec2-13-233-214-21.ap... 1. compute.amazonaws.com   open address	13.233.214.21	-
EFS-02	i-05b108a0145adae25	Running	t2.micro	2/2 checks passed	No alarms	ap-south-1a	ec2-13-233-224-154.ap... 1. compute.amazonaws.com   open address	13.233.224.154	-

**Instances**

- Instances [New](#)
- Instance Types
- Launch Templates
- Spot Requests
- Savings Plans
- Reserved Instances [New](#)
- Dedicated Hosts
- Capacity Reservations

**Images**

- AMIs

**Elastic Block Store**

```

stunnel          x86_64           4.56-6.amzn2.0.3           amzn2-core          149 k
Transaction Summary
=====
Install 1 Package (+1 Dependent package)
Total download size: 195 k
Installed size: 479 k
Downloading packages:
(1/2): stunnel-4.56-6.amzn2.0.3.x86_64.rpm | 149 kB 00:00:00
(2/2): amazon-efs-utils-1.31.2-1.amzn2.noarch.rpm | 46 kB 00:00:00
-----
Total
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Installing : stunnel-4.56-6.amzn2.0.3.x86_64          1/2
  Installing : amazon-efs-utils-1.31.2-1.amzn2.noarch          2/2
  Verifying   : stunnel-4.56-6.amzn2.0.3.x86_64          1/2
  Verifying   : amazon-efs-utils-1.31.2-1.amzn2.noarch          2/2
Installed:
  amazon-efs-utils.noarch 0:1.31.2-1.amzn2
Dependency Installed:
  stunnel.x86_64 0:4.56-6.amzn2.0.3
Complete!
[root@ip-172-31-42-45 ec2-user]# ls
[root@ip-172-31-42-45 ec2-user]# mkdir efsdir
[root@ip-172-31-42-45 ec2-user]# ls
efsdir
[root@ip-172-31-42-45 ec2-user]# sudo mount -t efs -o tls fs-0e42c5d414f8a9d78:/ efsdir
[root@ip-172-31-42-45 ec2-user]# ls
efsdir
[root@ip-172-31-42-45 ec2-user]# cd efsdir/
[root@ip-172-31-42-45 efsdir]# ls
a1 a2
[root@ip-172-31-42-45 efsdir]# 

```

```

transaction Summary
=====
install 1 Package (+1 Dependent package)

total download size: 195 k
installed size: 479 k
downloading packages:
1/2): stunnel-4.56-6.amzn2.0.3.x86_64.rpm
2/2): amazon-efs-utils-1.31.2-1.amzn2.noarch.rpm

Total
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Installing : stunnel-4.56-6.amzn2.0.3.x86_64
  Installing : amazon-efs-utils-1.31.2-1.amzn2.noarch
  Verifying  : stunnel-4.56-6.amzn2.0.3.x86_64
  Verifying  : amazon-efs-utils-1.31.2-1.amzn2.noarch

Installed:
  amazon-efs-utils.noarch 0:1.31.2-1.amzn2

Dependency Installed:
  stunnel.x86_64 0:4.56-6.amzn2.0.3

Complete!
[root@ip-172-31-42-45 ec2-user]# ls
[root@ip-172-31-42-45 ec2-user]# mkdir efsdir
[root@ip-172-31-42-45 ec2-user]# ls
efsdir
[root@ip-172-31-42-45 ec2-user]# sudo mount -t efs -o tls fs-0e42c5d414f8a9d78:/root@ip-172-31-42-45 ec2-user]# ls
efsdir
[root@ip-172-31-42-45 ec2-user]# cd efsdir/
[root@ip-172-31-42-45 efsdir]# ls
a1 a2
[root@ip-172-31-42-45 efsdir]# 

```

## 8) Configure SNS & connect to Email for messaging

Solution:-

The screenshot shows the AWS SNS console interface. On the left, there's a navigation sidebar with links for Dashboard, Topics (which is selected), Subscriptions, and Mobile (Push notifications, Text messaging (SMS), Origination numbers). The main content area shows a success message: "Topic covidwarning created successfully. You can create subscriptions and send messages to them from this topic." Below this, the topic name "covidwarning" is shown, along with its ARN (arn:aws:sns:ap-south-1:787619482938:covidwarning) and Type (Standard). There are tabs for Details, Subscriptions, Access policy, Delivery retry policy (HTTP/S), Delivery status logging, Encryption, and Tags. The Subscriptions tab is currently active, showing a table with one row: "Subscriptions (0)". It includes buttons for Edit, Delete, Request confirmation, Confirm subscription, and Create subscription. A search bar and pagination controls are also present.

☰

**Message structure**

**Identical payload for all delivery protocols.**  
The same payload is sent to endpoints subscribed to the topic, regardless of their delivery protocol.

**Custom payload for each delivery protocol.**  
Different payloads are sent to endpoints subscribed to the topic, based on their delivery protocol.

**Message body to send to the endpoint**

1 Saty safe  
2 VACCINATION DOSE STATUS  
3 VACCINATION TODAY  
4 55,89,124  
5 VACCINATION DOSES DAY BEFORE  
6 1,83,53,25,577  
7 TOTAL VACCINATION DOSES  
8 SARS-COV-2  
9 TESTING STATUS UP TO OCT 26, 2021  
10 13,05,962  
11 SAMPLES TESTED ON OCT 26, 2021  
12 60,32,07,505  
13 TOTAL SAMPLES TESTED  
14 Statewise  
15 CASES ACROSS INDIA  
16 1.62.661

**Message attributes**  
Message attributes let you provide structured metadata items (such as timestamps, geospatial data, signatures, and identifiers) for the message. [Info](#)

Time	Name	Value
------	------	-------

## warning Saty Inbox ×

**AWS Notifications <no-reply@sns.amazonaws.com>**

to me ▾

Saty safe

VACCINATION DOSE STATUS

VACCINATION TODAY

55,89,124

VACCINATION DOSES DAY BEFORE

1,03,53,25,577

TOTAL VACCINATION DOSES

SARS-COV-2

TESTING STATUS UP TO OCT 26, 2021

13,05,962

SAMPLES TESTED ON OCT 26, 2021

60,32,07,505

TOTAL SAMPLES TESTED

Statewise

CASES ACROSS INDIA

1,62,661

1,155

ACTIVE CASES (0.48%)

TOTAL CASES

3,42,15,653

13,451

DISCHARGED

(98.19%)

3,35,97,339

14,021

DEATHS

(1,22061)

9)Host Website & access by name(Route 53) from Linux Ec2 instance  
Solution:-

## Create hosted zone [Info](#)

---

**Hosted zone configuration**

A hosted zone is a container that holds information about how you want to route traffic for a domain, such as example.com, and its subdomains.

---

**Domain name [Info](#)**  
This is the name of the domain that you want to route traffic for.  
  
Valid characters: a-z, 0-9, !\* # \$ % & ' ( ) \* + , - / ; < = > ? @ [ \ ] ^ \_ { } , ~

**Description - optional [Info](#)**  
This value lets you distinguish hosted zones that have the same name.  
  
The description can have up to 256 characters. 0/256

**Type [Info](#)**  
The type indicates whether you want to route traffic on the internet or in an Amazon VPC.  
 **Public hosted zone**  
A public hosted zone determines how traffic is routed on the internet.  
 **Private hosted zone**  
A private hosted zone determines how traffic is routed within an Amazon VPC.

---

**VPCs to associate with the hosted zone [Info](#)**  
To use this hosted zone to resolve DNS queries for one or more VPCs, choose the VPCs. To associate a VPC with a hosted zone when the VPC was created using a different AWS account, you must use a programmatic method, such as the AWS CLI.

---

**logic.com [Info](#)**

[Delete zone](#)
[Test record](#)
[Configure query logging](#)

**▶ Hosted zone details**

[Edit hosted zone](#)

---

**Records (2)** [Info](#)

Hosted zone tags (0)

---

Records (2) <a href="#">Info</a>						
Automatic mode is the current search behavior optimized for best filter results. To change modes go to settings.						
<input type="checkbox"/>	Record name	T...	Ro...	Di...	Value/Route traffic to	▼
<input type="checkbox"/>	logic.com	NS	Simple	-	ns-1536.awsdns-00.co.uk. ns-0.awsdns-00.com. ns-1024.awsdns-00.org. ns-512.awsdns-00.net.	◀ 1 ▶
<input type="checkbox"/>	logic.com	SOA	Simple	-	ns-1536.awsdns-00.co.uk. awsdns-hostmaster.amazon.com. 1 7200 9	✖

1. Choose AMI   2. Choose Instance Type   3. Configure Instance   4. Add Storage   5. Add Tags   6. Configure Security Group   7. Review

### Step 3: Configure Instance Details

---

**IAM role** (i)

---

**Shutdown behavior** (i)   Enable hibernation as an additional stop behavior

**Stop - Hibernate behavior** (i)  Protect against accidental termination

---

**Enable termination protection** (i)  Enable CloudWatch detailed monitoring  
Additional charges apply.

**Monitoring** (i)  Enable CloudWatch detailed monitoring  
Additional charges apply.

---

**Tenancy** (i)   Additional charges will apply for dedicated tenancy.

---

**Credit specification** (i)  Unlimited  
Additional charges may apply

---

**File systems** (i)

---

**Advanced Details**

**Enclave** (i)  Enable

**Metadata accessible** (i)

**Metadata version** (i)

**Metadata token response hop limit** (i)

**User data** (i)  As text  As file  Input is already base64 encoded

```
#!/bin/bash
yum install httpd -y
systemctl start httpd
systemctl enable httpd
echo "WebpageServer" >> /var/www/html/index.html
systemctl restart httpd
```

---

logic.com [Info](#)

[Delete zone](#) [Test record](#) [Configure query logging](#)

▶ Hosted zone details [Edit hosted zone](#)

[Records \(3\)](#) [Hosted zone tags \(0\)](#)

**Records (1/3) [Info](#)**

Automatic mode is the current search behavior optimized for best filter results. To change modes go to settings.

[C](#) [Delete record](#) [Import zone file](#) [Create record](#)

Filter records by property or value

Type ▾ Routing ... ▾ Alias ▾

< 1 > [@](#)

Record name	Type	Routing policy	Value/Route traffic to
logic.com	NS	Simple	- ns-1536.awsdns-00.co.uk. ns-0.awsdns-00.com. ns-1024.awsdns-00.org. ns-512.awsdns-00.net.
logic.com	SOA	Simple	- ns-1536.awsdns-00.co.uk. awsdns-hostmaster.amazon.com. 1 7200 90
<input checked="" type="checkbox"/> www.logic.com	A	Simple	- 13.127.171.46

Record name  
 www.logic.com

Record type  
A

Value  
 13.127.171.46

Alias  
No

TTL (seconds)  
300

Routing policy  
Simple

```
[root@ip-172-31-44-140 ec2-user]# systemctl status httpd
● httpd.service - The Apache HTTP Server
  Loaded: loaded (/usr/lib/systemd/system/httpd.service; enabled; vendor preset: disabled)
  Active: active (running) since Thu 2021-10-28 02:59:29 UTC; 2min 34s ago
    Docs: man:httpd.service(8)
Main PID: 3371 (httpd)
   Status: "Total requests: 0; Idle/Busy workers 100/0;Requests/sec: 0; Bytes served/sec: 0 B/sec"
   CGrou...
[...]
Oct 28 02:59:29 ip-172-31-44-140.ap-south-1.compute.internal systemd[1]: Stopped The Apache HTTP Server.
Oct 28 02:59:29 ip-172-31-44-140.ap-south-1.compute.internal systemd[1]: Starting The Apache HTTP Server...
Oct 28 02:59:29 ip-172-31-44-140.ap-south-1.compute.internal systemd[1]: Started The Apache HTTP Server.
[root@ip-172-31-44-140 ec2-user]# ip add show
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
  link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
      valid_lft forever preferred_lft forever
  inet6 ::1/128 scope host
    valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 9001 qdisc pfifo_fast state UP group default qlen 1000
  link/ether 02:8a:7a:88:3f:f8 brd ff:ff:ff:ff:ff:ff
    inet 172.31.44.140/20 brd 172.31.47.255 scope global dynamic eth0
      valid_lft 3396sec preferred_lft 3396sec
    inet6 fe80::2a:7aff:fe88:3ff8/64 scope link
      valid_lft forever preferred_lft forever
[root@ip-172-31-44-140 ec2-user]# curl http://www.logic.com
Webpageserver1
[root@ip-172-31-44-140 ec2-user]# curl https://www.logic.com
curl: (7) Failed to connect to www.logic.com port 443: Connection refused
[root@ip-172-31-44-140 ec2-user]# curl http://www.logic.com
Webpageserver1
[root@ip-172-31-44-140 ec2-user]# cat /var/www/html/index.html
Webpageserver1
[root@ip-172-31-44-140 ec2-user]#
```



```
https://aws.amazon.com/amazon-linux-2/
3 package(s) needed for security, out of 15 available
Run "sudo yum update" to apply all updates.
[root@ip-172-31-44-140 ~]# sudo su
[root@ip-172-31-44-140 ~]# systemctl status httpd
● httpd.service - The Apache HTTP Server
  Loaded: loaded (/usr/lib/systemd/system/httpd.service; enabled; vendor preset: disabled)
  Active: active (running) since Thu 2021-10-28 02:59:29 UTC; 2min 34s ago
    Docs: man:httpd.service(8)
Main PID: 3371 (httpd)
   Status: "Total requests: 0; Idle/Busy workers 100/0;Requests/sec: 0; Bytes served/sec: 0 B/sec"
   CGrou...
[...]
Oct 28 02:59:29 ip-172-31-44-140.ap-south-1.compute.internal systemd[1]: Stopped The Apache HTTP Server.
Oct 28 02:59:29 ip-172-31-44-140.ap-south-1.compute.internal systemd[1]: Starting The Apache HTTP Server...
Oct 28 02:59:29 ip-172-31-44-140.ap-south-1.compute.internal systemd[1]: Started The Apache HTTP Server.
[root@ip-172-31-44-140 ec2-user]# ip add show
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
  link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
      valid_lft forever preferred_lft forever
  inet6 ::1/128 scope host
    valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 9001 qdisc pfifo_fast state UP group default qlen 1000
  link/ether 02:8a:7a:88:3f:f8 brd ff:ff:ff:ff:ff:ff
    inet 172.31.44.140/20 brd 172.31.47.255 scope global dynamic eth0
      valid_lft 3396sec preferred_lft 3396sec
    inet6 fe80::2a:7aff:fe88:3ff8/64 scope link
      valid_lft forever preferred_lft forever
```

## 10) Enable S3 versioning on S3 Bucket

Solution:-

We're continuing to improve the S3 console to make it faster and easier to use. If you have feedback on the updated experience, choose [Provide feedback](#).

**Bucket name**  
assignmentq  
Bucket name must be unique and must not contain spaces or uppercase letters. [See rules for bucket naming](#)

**AWS Region**  
US West (N. California) us-west-1

**Copy settings from existing bucket - optional**  
Only the bucket settings in the following configuration are copied.  
[Choose bucket](#)

**Block Public Access settings for this bucket**

### Default encryption

Automatically encrypt new objects stored in this bucket. [Learn more](#)

**Server-side encryption**  
 Disable  
 Enable

**Advanced settings**

**Info** After creating the bucket you can upload files and folders to the bucket, and configure additional bucket settings.

[Cancel](#) **Create bucket**

Summary					
Destination <a href="s3://assignmentq">s3://assignmentq</a>	Succeeded <a href="#">🔗 1 file, 10.1 KB (100.00%)</a>	Failed <a href="#">🔗 0 files, 0 B (0%)</a>			
<a href="#">Files and folders</a> <a href="#">Configuration</a>					
<b>Files and folders</b> (1 Total, 10.1 KB)					
<a href="#">Find by name</a> <a href="#">&lt;</a> <a href="#">1</a> <a href="#">&gt;</a>					
Name	Folder	Type	Size	Status	Error
<a href="#">assign10.odt</a>	-	application/vnd.oasis.opendocument.text	10.1 KB	<a href="#">🔗 Succeeded</a>	-

English (US) © 2008 - 2021, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. [Privacy Policy](#) [Terms of Use](#) [Cookie preference](#)

## 11) Create IAM Policy – Developers Group give access to Lambda, Dynamodb services

Solution:-

The screenshot shows the AWS IAM 'Create policy' wizard. It consists of two main sections: 'Create policy' and 'Review policy'.

**Create policy:** This section contains a JSON editor where the following policy document is defined:

```
10  "Version": "2012-10-17",
11  "Statement": [
12    {
13      "Effect": "Allow",
14      "Action": [
15        "dynamodb:PutItem",
16        "dynamodb:UpdateItem"
17      ],
18      "Resource": "arn:aws:dynamodb:eu-west-1:123456789012:table/SampleTable"
19    },
20    {
21      "Effect": "Allow",
22      "Action": [
23        "logs:CreateLogStream",
24        "logs:PutLogEvents"
25      ],
26      "Resource": "arn:aws:logs:eu-west-1:123456789012:*log"
27    }
28  ]
```

The JSON editor includes line numbers (11-26), a visual editor tab, a JSON tab (which is selected), and an 'Import managed policy' link. Below the editor, status indicators show Security: 0, Errors: 0, Warnings: 0, and Suggestions: 0.

**Review policy:** This section contains the following fields:

- Name\***: Developer777
- Description**: (Empty)
- Summary**:
  - Service: CloudWatch Logs, Access level: Limited: Write, Resource: Multiple, Request condition: None
  - Service: DynamoDB, Access level: Limited: Read, Write, Resource: TableName | string like | SampleTable, Request condition: None
- Tags**:
  - Key: \* Required
  - Value: (Empty)

At the bottom right of the 'Review policy' section are 'Cancel', 'Previous', and 'Create policy' buttons.

IAM > User groups

### User groups (1) Info

A user group is a collection of IAM users. Use groups to specify permissions for a collection of users.

<input type="checkbox"/>	Group name	Users	Permissions	Creation time
<input type="checkbox"/>	DEVELOPERS_GL	~ Loading	Defined	Now

User groups > DEVELOPERS\_GL

### /DEVELOPERS\_GL

Empty

Delete Edit

Group name	Creation time	ARN
DEVELOPERS_GL	October 28, 2021, 00:25 (UTC+05:30)	arn:aws:iam::012654547674:group/DEVELOPERS_GL

Permissions Access Advisor

### Permissions policies (2) Info

can attach up to 10 managed policies.

Policy name	Type	Description
AmazonDynamoDBFullAccess	AWS managed	Provides full access to Amazon DynamoDB via the AWS Management Console.
AWSLambda_FullAccess	AWS managed	Grants full access to AWS Lambda service, AWS Lambda console features, and other related AWS services.

© 2008 - 2021, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. Privacy Policy Terms of Use Cookie preferences

**Author from scratch**  Start with a simple Hello World example.

**Use a blueprint**  Build a Lambda application from sample code and configuration presets for common use cases.

**Container image**  Select a container image to deploy for your function.

**Browse serverless app repository**  Deploy a sample Lambda application from the AWS Serverless Application Repository.

#### Basic information

**Function name**  
Enter a name that describes the purpose of your function.  
  
Use only letters, numbers, hyphens, or underscores with no spaces.

**Runtime** Info  
Choose the language to use for your function. Note that the console code editor supports only Node.js, Python, and Ruby.

**Permissions** Info  
By default, Lambda will create an execution role with permissions to upload logs to Amazon CloudWatch Logs. You can customize this default role later when adding triggers.

**Advanced settings**

Create function

**The new DynamoDB console is now complete, and becomes your default experience**

Following the preview phase in which we analyzed and incorporated your feedback, we have completed the new DynamoDB console, making it even easier for you to manage your data and resources. Let us know what you think. You can still choose to return to the previous console from the navigation pane.

DynamoDB > Tables > Create table

## Create table

**Table details** [Info](#)

DynamoDB is a schemaless database that requires only a table name and a primary key when you create the table.

**Table name**  
This will be used to identify your table.  
  
Between 3 and 255 characters, containing only letters, numbers, underscores (\_), hyphens (-), and periods (.)

**Partition key**  
The partition key is part of the table's primary key. It is a hash value that is used to retrieve items from your table and allocate data across hosts for scalability and availability.

1 to 255 characters and case sensitive.

**Sort key - optional**

1 to 255 characters and case sensitive.

**Settings**

**Default settings**  
The fastest way to create your table. You can modify these settings now or after your table has been created.

**Customize settings**  
Use these advanced features to make DynamoDB work better for your needs.

**Default settings**

Read/write capacity [Info](#)  
Using provisioned capacity mode. Read and write capacity are set to 5 units each with auto scaling enabled.

Secondary Indexes [Info](#)  
No secondary indexes have been created. Queries will be run by using the table's partition key and sort key only.

Key management for encryption at rest [Info](#)  
Using the AWS owned customer master key. This key is managed by DynamoDB at no extra cost.

**Tags**  
Tags are pairs of keys and optional values, that you can assign to AWS resources. You can use tags to control access to your resources or track your AWS spending.

No tags are associated with the resource.

[Add new tag](#)  
You can add 50 more tags.

[Cancel](#) [Create table](#)

12) Create IAM Policy – Developers Group give access to Lambda, Dynamodb services  
**Solution:-**

Servicest Xexamster Global Support

Create role

Select type of trusted entity

**AWS service** EC2, Lambda and others **Another AWS account** Belonging to you or 3rd party **Web identity** Cognito or any OpenID provider **SAML 2.0 federation** Your corporate directory

Allows AWS services to perform actions on your behalf. [Learn more](#)

Choose a use case

**Common use cases**

**EC2** Allows EC2 instances to call AWS services on your behalf.

**Lambda** Allows Lambda functions to call AWS services on your behalf.

Or select a service to view its use cases

Create role

Select type of trusted entity

**AWS service** EC2, Lambda and others **Another AWS account** Belonging to you or 3rd party **Web identity** Cognito or any OpenID provider **SAML 2.0 federation** Your corporate directory

Allows AWS services to perform actions on your behalf. [Learn more](#)

Choose a use case

**Common use cases**

**EC2** Allows EC2 instances to call AWS services on your behalf.

**Lambda** Allows Lambda functions to call AWS services on your behalf.

Or select a service to view its use cases

API Gateway	CloudWatch Events	EMR	IoT SiteWise	RAM
AWS Backup	CodeBuild	EMR Containers	IoT Things Graph	RDS
AWS Chatbot	CodeDeploy	ElastiCache	KMS	Redshift
AWS Marketplace	CodeGuru	Elastic Beanstalk	Kinesis	Rekognition
AWS Support	CodeStar Notifications	Elastic Container Registry	Lake Formation	RoboMaker
Amazon OpenSearch Service	Comprehend	Elastic Container Service	Lambda	<b>S3</b>
Amplify	Config	Elastic Transcoder	Lex	SMS
AppStream 2.0	Connect	Elastic Load Balancing	License Manager	SNS
Amazon CloudWatch Metrics	DMS	EventBridge	MQ	SWF

roles > Assign\_q12

## Summary

Delete role

**Role ARN** arn:aws:iam::012654547674:role/Assign\_q12 [Edit](#)

**Role description** Allows EC2 instances to call AWS services on your behalf. [Edit](#)

**Instance Profile ARNs** arn:aws:iam::012654547674:instance-profile/Assign\_q12 [Edit](#)

**Path** /

**Creation time** 2021-10-28 11:45 UTC+0530

**Last activity** 2021-10-28 12:14 UTC+0530 (Today)

**Maximum session duration** 1 hour [Edit](#)

**Permissions** **Trust relationships** **Tags** **Access Advisor** **Revoke sessions**

▼ Permissions policies (2 policies applied)

**Attach policies** **Add inline policy**

Policy name	Policy type	X
▶ <b>AmazonEC2FullAccess</b>	AWS managed policy	X
▶ <b>AmazonS3FullAccess</b>	AWS managed policy	X

© 2008 - 2021, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. [Privacy Policy](#) [Terms of Use](#) [Cookie preferences](#)

**Configure instance details**

Network	vpc-fda8039b (default)		Create new VPC
Subnet	No preference (default subnet in any Availability Zone)		Create new subnet
Auto-assign Public IP	Use subnet setting (Enable)		
Placement group	<input type="checkbox"/> Add instance to placement group		
Capacity Reservation	Open		
Domain join directory	No directory		Create new directory
IAM role	Assign_q12		Create new IAM role
Shutdown behavior	Stop		
Stop - Hibernate behavior	<input type="checkbox"/> Enable hibernation as an additional stop behavior		
Enable termination protection	<input type="checkbox"/> Protect against accidental termination		
Monitoring	<input type="checkbox"/> Enable CloudWatch detailed monitoring Additional charges apply.		
Tenancy	Shared - Run a shared hardware instance		

English (US) ▾ © 2008 - 2021, Amazon Internet Services Private Ltd. or its affiliates

```
  _\|_(_|_) /   Amazon Linux 2 AMI  
  \_\|_|_|  
  
https://aws.amazon.com/amazon-linux-2/  
3 package(s) needed for security, out of 15 available  
Run "sudo yum update" to apply all updates.  
[ec2-user@ip-172-31-17-201 ~]$ sudo su  
[root@ip-172-31-17-201 ec2-user]# aws s3 list  
Note: AWS CLI version 2, the latest major version of the AWS CLI, is now stable and recommended for general use. For  
ation instructions at: https://docs.aws.amazon.com/cli/latest/userguide/install-cliv2.html  
  
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: argument subcommand: Invalid choice, valid choices are:  
ls                                | website  
cp                                | mv  
rm                                | sync  
mb                                | rb  
precision  
[root@ip-172-31-17-201 ec2-user]# aws s3 ls  
2021-10-28 06:27:28 assignments  
[root@ip-172-31-17-201 ec2-user]#
```

### 13) Create a Role ec2 can access S3 Bucket, Host Ec2 Instance using Role Solution:-

The screenshot shows the AWS Auto Scaling Groups console. The left sidebar includes links for EC2 Dashboard, Events, Tags, Instances (selected), Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Scheduled Instances, Capacity Reservations, Images (AMIs), Elastic Block Store (Volumes, Snapshots, Lifecycle Manager), Network & Security (Security Groups, Elastic IPs, Placement Groups, Key Pairs, Network Interfaces), and Feedback. The main content area displays the 'Auto Scaling groups (1/2)' table:

Name	Launch template/configuration	Instances	Status	Desired capacity	Min	Max	Availability Zones
<input checked="" type="checkbox"/> globalogic	test	0	Updating capacity	2	1	4	ap-south-1a
<input type="checkbox"/> auto	auto	1	-	1	0	1	ap-south-1a

Below the table, the 'Group details' section shows:

- Desired capacity: 2
- Auto Scaling group name: globalogic
- Minimum capacity: 1
- Date created: Thu Oct 28 2021 16:02:10 GMT+0530 (India Standard Time)
- Maximum capacity: 4
- Amazon Resource Name (ARN): arn:aws:autoscaling:ap-south-1:351475346927:autoScalingGroup:73132317-659a-4c56-896d-8f8125821e08:autoScalingGroupName/globalogic

The screenshot shows the AWS Instances console. The left sidebar includes links for EC2 Global View, Events, Tags, Instances (selected), Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, Images (AMIs), Elastic Block Store (Volumes, Snapshots, Lifecycle Manager), Network & Security (Security Groups, Elastic IPs, Placement Groups), and Feedback. The main content area displays the 'Instances (2) Info' table:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4 ...	Elastic IP
-	i-01acc3bae0021085c	Pending	t2.small	-	No alarms	+ us-west-1b	-	54.195.84.168	-
all	i-071e0a2647a01aaaf0	Running	t2.micro	2/2 checks passed	No alarms	+ us-west-1a	ec2-52-53-174-243.us...	52.53.174.243	-

A modal dialog at the bottom of the screen says "Select an instance above".

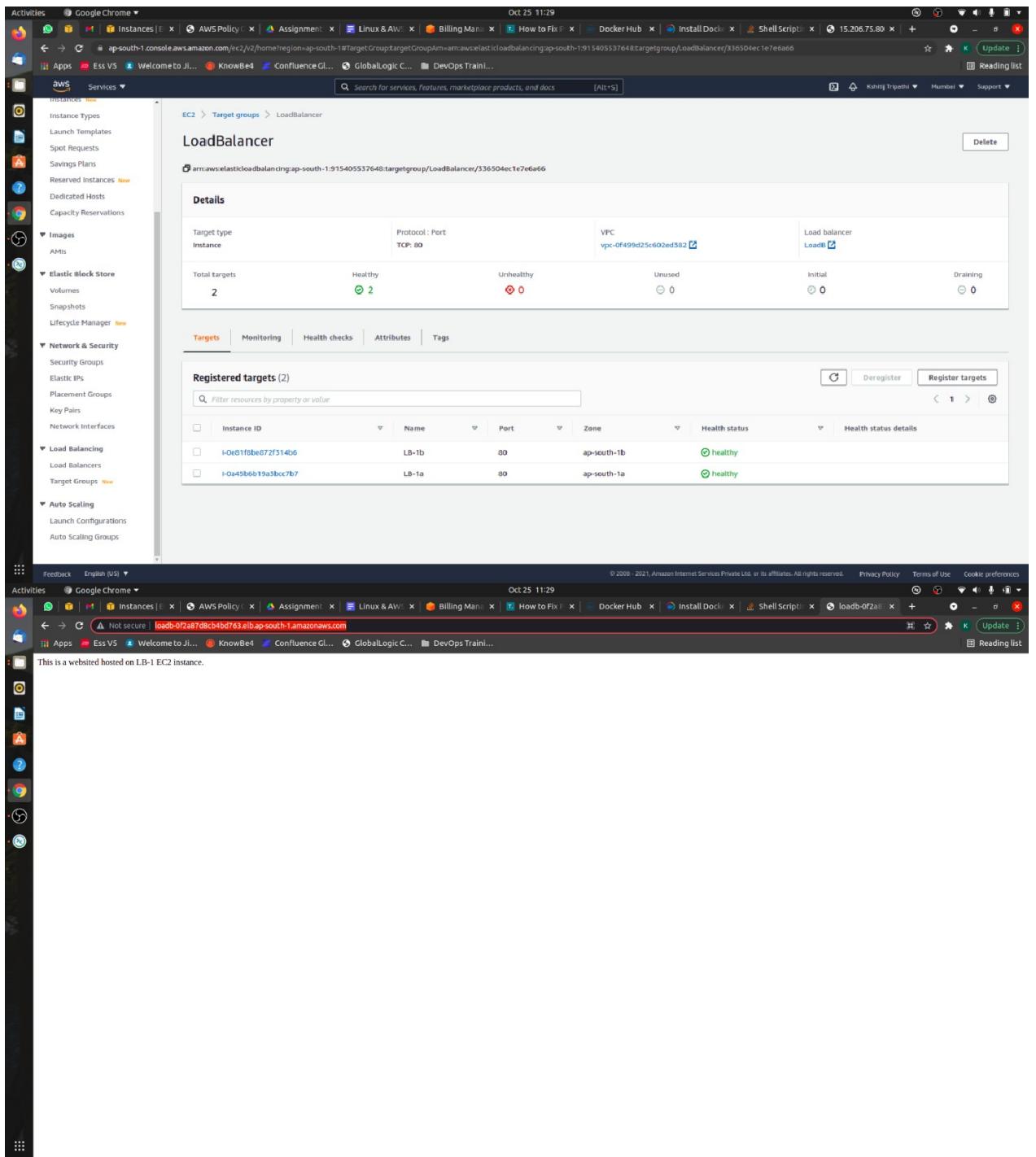
Screenshot of the AWS CloudWatch Metrics interface showing monitoring data for two EC2 instances. The left sidebar shows the AWS navigation menu with 'Instances' selected. The main pane displays two instances: 'public' (Instance ID: i-032944b6066608cbe) and 'public2' (Instance ID: i-049c58d6deb6c47b). The 'Monitoring' tab is active, showing four metrics over a 1-hour period:

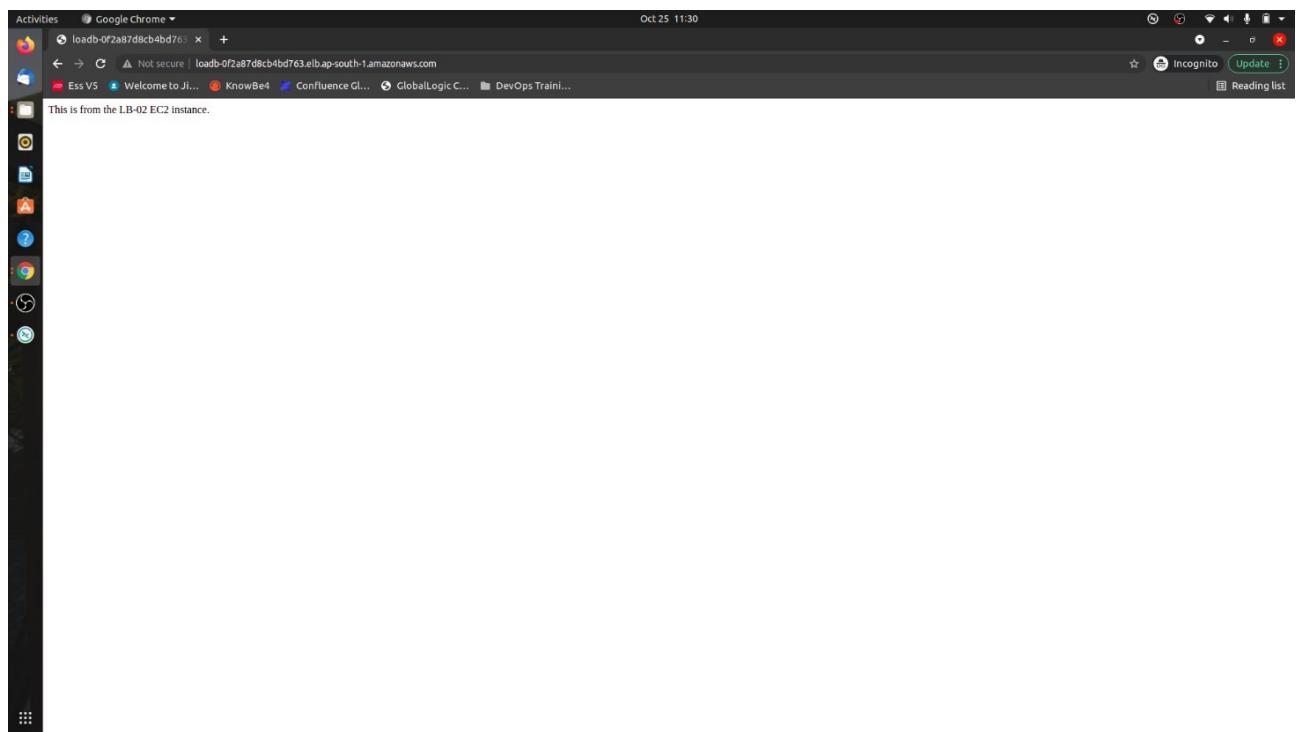
- CPU Utilization (%)**: Percent usage. 'public' starts at ~0.766 and drops to ~0.383. 'public2' starts at ~1.23k and fluctuates between 615 and 1.21k.
- Status check failed (any) (count)**: Count of failed status checks. Both instances show 1 failure each.
- Status check failed (instance) (count)**: Count of failed status checks per instance. Both instances show 1 failure each.
- Status check failed (system) (count)**: Count of failed system status checks. Both instances show 1 failure each.

Screenshot of the AWS CloudWatch Metrics interface showing monitoring data for two EC2 instances. The left sidebar shows the AWS navigation menu with 'Instances' selected. The main pane displays two instances: 'public' (Instance ID: i-032944b6066608cbe) and 'public2' (Instance ID: i-049c58d6deb6c47b). The 'Monitoring' tab is active, showing four metrics over a 1-hour period:

- Network in (bytes)**: Bytes received. 'public' starts at ~1.23k and fluctuates between 615 and 1.21k. 'public2' starts at ~1.23k and fluctuates between 615 and 1.21k.
- Network out (bytes)**: Bytes sent. 'public' starts at ~1.23k and fluctuates between 615 and 1.21k. 'public2' starts at ~1.23k and fluctuates between 615 and 1.21k.
- Network packets in (count)**: Count of incoming packets. 'public' starts at ~10.4 and fluctuates between 5.2 and 10.4. 'public2' starts at ~10.4 and fluctuates between 5.2 and 10.4.
- Network packets out (count)**: Count of outgoing packets. 'public' starts at ~13.8 and fluctuates between 6.9 and 13.8. 'public2' starts at ~13.8 and fluctuates between 6.9 and 13.8.

14)Autoscaling – Desired Instance -2, Min-1, Max -4, CPU Utilization =50%  
 Solution:-





15) Load Balancing- Host 2 Windows 2012 Instance , launch website in windows & share load

Solution:-

Oct 25 12:10

The role lambda-dynamodb has been created.

IAM > Roles

**Roles (Selected 1/12) Info**

An IAM role is an identity you can create that has specific permissions with credentials that are valid for short durations. Roles can be assumed by entities that you trust.

Search

Role name	Trusted entities	Last activity
AWSServiceRoleForAmazonElasticFileSystem	AWS Service: elasticfilesystem (Service-Linked Role)	2 hours ago
AWSServiceRoleForAutoScaling	AWS Service: autoscaling (Service-Linked Role)	16 minutes ago
AWSServiceRoleForBackup	AWS Service: backup (Service-Linked Role)	24 hours ago
AWSServiceRoleForECS	AWS Service: ecs (Service-Linked Role)	2 days ago
AWSServiceRoleForElastiLoadBalancing	AWS Service: elasticloadbalancing (Service-Linked Role)	38 minutes ago
AWSServiceRoleForRDS	AWS Service: rds (Service-Linked Role)	17 hours ago
AWSServiceRoleForSupport	AWS Service: support (Service-Linked Role)	-
AWSServiceRoleForTrustedAdvisor	AWS Service: trustedadvisor (Service-Linked Role)	-
ecsInstanceRole	AWS Service: ec2	2 days ago
ecstaskExecutionRole	AWS Service: ecs-tasks	2 days ago
<b>lambda-dynamodb</b>	AWS Service: lambda	-
rds-monitoring-role	AWS Service: monitoring.rds	17 hours ago

Feedback English (US) ▾

AS.rdp

Oct 25 12:19

Successfully created bucket "lambdabucket0123"

To upload files and folders, or to configure additional bucket settings choose View details.

Amazon S3

**Account snapshot**

Storage lens provides visibility into storage usage and activity trends. Learn more

**Buckets (1) Info**

Buckets are containers for data stored in S3. Learn more

Find buckets by name

Name	AWS Region	Access	Creation date
lambdabucket0123	Asia Pacific (Mumbai) ap-south-1	Objects can be public	October 25, 2021, 12:19:07 (UTC+05:30)

View details

Feedback English (US) ▾

AS.rdp

Activities Google Chrome Oct 25 12:25

Items S3 Man EC2 Ma AWS Pe Linux & Billing How to Docker Install Shell Sc New To AWI ... + Update Reading list

Apps Ess V5 Welcome to Ji... KnowBe4 Confluence Gl... GlobalLogic C... DevOps Train...

AWS Services AWS Lambda

Function overview Info

lambda1

S3 Layers (0)

+ Add destination

Description

Last modified 14 minutes ago

Function ARN arn:aws:lambda:ap-south-1:915405537648:function:lambda1

Code Test Monitor Configuration Aliases Versions

Code source Info

File Edit Find View Go Tools Window Test Deploy Changes deployed

Go to Anything (Ctrl+P)

Environment

lambda1 lambda\_function.py

```
1 import boto3
2 from aws_lambda import *
3 def lambda_handler(event, context):
4     s3 = boto3.client('s3')
5     dynamoTable = boto3.resource('dynamodb')
6     for record in event['Records']:
7         bucket = record['s3']['bucket']['name']
8         object_key = record['s3']['object']['key']
9         file_size = record['s3']['object']['size']
10        event_name = record['eventname']
11        event_time = record['eventtime']
12        dynamoTable.create_table(
13            TableName='newtable',
14            Item={'unique': str(uuid4()), 'Bucket': bucket_name, 'Object': object_key, 'Size': size, 'Event': event_name, 'EventTime': event_time})
```

Feedback English (US) Show all

AS.rdp Activities Google Chrome Oct 25 12:22

Items Listai S3 Man EC2 Ma AWS Pe Linux & Billing How to Docker Install Shell Sc New To AWI ... + Update Reading list

Apps Ess V5 Welcome to Ji... KnowBe4 Confluence Gl... GlobalLogic C... DevOps Train...

AWS Services DynamoDB

The new DynamoDB console is now complete, and becomes your default experience.

Following the preview phase in which we analyzed and incorporated your feedback, we have completed the new DynamoDB console, making it even easier for you to manage your data and resources. Let us know what you think. You can still choose to return to the previous console from the navigation pane.

The newtable was created successfully.

DynamoDB Tables

Tables (1) Info

Create table

Name	Status	Partition key	Sort key	Indexes	Read capacity mode	Write capacity mode
newtable	Active	unique (String)	-	0	Provisioned with auto scaling (5)	Provisioned with auto scaling (5)

Feedback English (US) Show all

The screenshot shows the AWS DynamoDB console. On the left, the navigation pane includes 'Dashboard', 'Tables' (with 'Item New' and 'PartQL editor' options), 'Backups', 'Exports to S3', and 'Reserved capacity'. Below that is the 'DAX' section with 'Clusters', 'Subnet groups', 'Parameter groups', and 'Events'. A feedback section asks to tell what they think and provides a link to the previous console experience. The main area is titled 'Items' and shows 'Tables (1)'. A table named 'newtable' is listed, with its details expanded. The table has one item: '9baa6abb-...', which is associated with the 'lambdabuc...' bucket, created on '2021-10-2...', and has a size of '358'. The status is 'Completed' with a note about consumed read capacity units.

16) Create Lambda Function source as S# Bucket Destination Dynamodb( Any upload in S3 should be reflected in DynamoDb)

Solution:-

The screenshot shows the AWS CloudFormation console. The left sidebar lists 'CloudFormation', 'Stacks', and the current stack 's3bucket'. The main area is titled 's3bucket' and shows the 'Events' tab. It displays a single event: 'CREATE\_IN\_PROGRESS' for the stack 's3bucket' at '2021-10-27 22:54:32 UTC+0530', with the status reason 'User Initiated'. Other tabs include 'Stack info', 'Resources', 'Outputs', 'Parameters', 'Template', and 'Change sets'.

Activities Google Chrome ▾ CloudFormation - Stack s... + Oct 27 22:56

CloudFormation - Stack s... ap-south-1.console.aws.amazon.com/cloudformation/home?region=ap-south-1#/stacks/template?stackId=arn%3aws%3acloudformation%3aap-south-1%3a488976890796%3astack%2fs3bucket%2fbfb99180-374a-11ec-96b0-0a8d1fb2d30&filterin... kashish Mumbai Support

CloudFormation > Stacks > s3bucket

CloudFormation > Stacks (1) C

Stack Info Events Resources Outputs Parameters Template Change sets

**s3bucket**

Stack Info Events Resources Outputs Parameters Template Change sets

**Template**

View In Designer C

```
{ "AWSTemplateFormatVersion": "2010-09-09", "Description": "AWS CloudFormation Sample template to create an Amazon S3 bucket.", "Resources": { "S3Bucket": { "Type": "AWS::S3::Bucket", "Properties": { "AccessControl": "Private", "DeletionPolicy": "Delete" } } } }
```

2021-10-27 22:54:52 UTC+0530 CREATE\_COMPLETE

https://ap-south-1.console.aws.amazon.com/cloudformation/home?region=ap-south-1#/stacks/template?stackId=arn%3aws%3acloudformation%3aap-south-1%3a488976890796%3astack%2fs3bucket%2fbfb99180-374a-11ec-96b0-0a8d1fb2d30&filterin... © 2008 - 2021, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. Privacy Policy Terms of Use Cookie preferences

Activities Google Chrome ▾ CloudFormation - Stack s... + Oct 27 22:56

CloudFormation - Stack s... ap-south-1.console.aws.amazon.com/cloudformation/home?region=ap-south-1#/stacks/events?stackId=arn%3aws%3acloudformation%3aap-south-1%3a488976890796%3astack%2fs3bucket%2fbfb99180-374a-11ec-96b0-0a8d1fb2d30&filterin... kashish Mumbai Support

CloudFormation > Stacks > s3bucket

CloudFormation > Stacks (1) C

Stack Info Events Resources Outputs Parameters Template Change sets

**s3bucket**

Stack Info Events Resources Outputs Parameters Template Change sets

**Events (5)**

Search events

Timestamp	Logical ID	Status	Status reason
2021-10-27 22:54:58 UTC+0530	s3bucket	<span style="color: green;">CREATE_COMPLETE</span>	-
2021-10-27 22:54:57 UTC+0530	S3Bucket	<span style="color: green;">CREATE_COMPLETE</span>	-
2021-10-27 22:54:36 UTC+0530	S3Bucket	<span style="color: blue;">CREATE_IN_PROGRESS</span>	Resource creation Initiated
2021-10-27 22:54:35 UTC+0530	S3Bucket	<span style="color: blue;">CREATE_IN_PROGRESS</span>	-
2021-10-27 22:54:32 UTC+0530	s3bucket	<span style="color: blue;">CREATE_IN_PROGRESS</span>	User Initiated

https://ap-south-1.console.aws.amazon.com/cloudformation/home?region=ap-south-1#/stacks/events?stackId=arn%3aws%3acloudformation%3aap-south-1%3a488976890796%3astack%2fs3bucket%2fbfb99180-374a-11ec-96b0-0a8d1fb2d30&filterin... © 2008 - 2021, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. Privacy Policy Terms of Use Cookie preferences

The screenshot shows the AWS CloudFormation console with a stack named 's3bucket'. The 'Overview' section displays the stack's status as 'CREATE\_COMPLETE', created on 2021-10-27 at 22:54:32 UTC+0530. The stack's description is 'AWS CloudFormation Sample template to create an Amazon S3 bucket.' The 'Tags (0)' section indicates no tags have been applied.

The screenshot shows the AWS S3 console with a bucket named 's3bucket-s3bucket-2du2n8p68jki'. The 'Objects' tab is selected, showing a table with one row: 'No objects'. A message at the top states, 'We're continuing to improve the S3 console to make it faster and easier to use. If you have feedback on the updated experience, choose Provide feedback.'

## 17)Cloudformation- Create S3 Bucket using Code. Solution:-

The screenshot shows two stacked windows from the AWS Management Console.

The top window is titled "simple\_aac\_recording" and shows the "Create stack" wizard at Step 1: "Specify template". It displays the "Prerequisite - Prepare template" section with three options: "Template is ready" (radio button unselected), "Use a sample template" (radio button selected), and "Create template in Designer" (radio button unselected). Below this is the "Select a sample template" section, which lists "LAMP Stack" under "Sample templates". A "View in Designer" button is present. At the bottom right are "Cancel" and "Next" buttons.

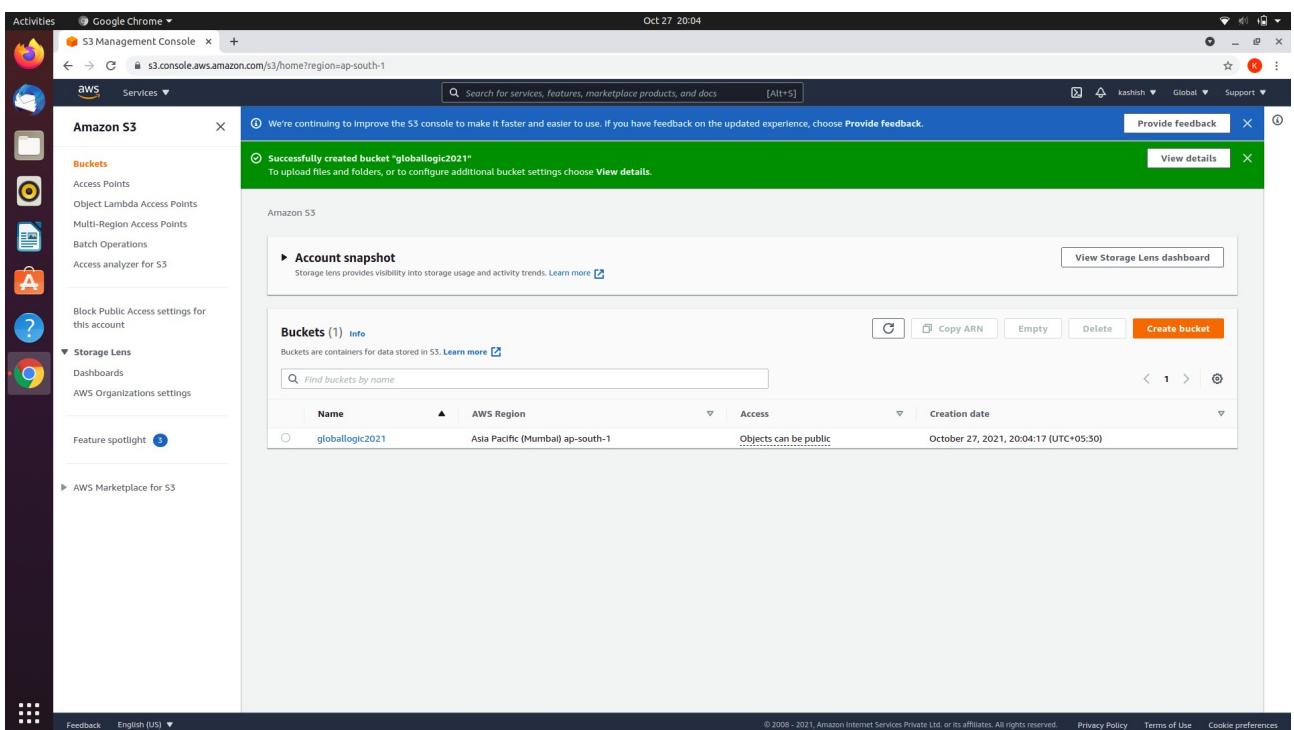
The bottom window is also titled "simple\_aac\_recording" and shows the "Instances (1/2) info" page. The left sidebar shows navigation links for EC2 Dashboard, EC2 Global View, Events, Tags, Limits, Instances (selected), Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, Images, AMIs, Elastic Block Store, Volumes, Snapshots, Lifecycle Manager, Network & Security, Security Groups, and Elastic IPs. The main content area shows one instance: "i-098ce22b56e8c26fe" (Running, t2.small, 3.109.122.85). The "Details" tab is selected, showing details like Instance ID, Public IPv4 address, Instance state, Instance type, Private IPv4 DNS, and Instance type. Other tabs include Security, Networking, Storage, Status checks, Monitoring, and Tags. At the bottom right are "Connect", "Instance state", "Actions", and "Launch instances" buttons.

Activities Videos Oct 25 25:53  
simple\_aac\_recording Oct 24 18:38  
ec2-user@ip-172-31-2-247:~

Activities Terminal

CentOS-7-x86\_64-Minimal-1708.iso  
Cisco.jpg  
ec2ds.pem  
global.linux.pem  
global.mysql.pem  
global.pem  
global.ppk  
lubuntu.pem  
[Kshitij] Tripathi Linux Assignment.pdf'  
Linux & AWS Assignments.docx'  
new\_user\_credentials.csv  
private.rdp  
public (1).rdp  
public (2).rdp  
public (3).rdp  
public (4).rdp  
Public DNS.rdp  
public.rdp  
s3 bucket cloudFormation.txt  
Software\_Gallery\_Use\_2nd\_Switch-Ubuntu-20210930T081416Z-001.zip"  
SW\_ELECTRONIC\_Visual\_Studio\_Pro\_2019\_MultiLang\_MLF\_X22-02265.EXE  
VLC media player 3.0.16  
VMware-Player-16.1.2-17966106.x86\_64.bundle  
VMware-Workstation-Full-16.1.2-17966106.x86\_64.bundle  
WindowsKeygen.pem  
kshitij.tripathi@del1-lp-n602641:~/Downloads\$ chmod 400 lubuntu.pem  
chmod: cannot access 'lubuntu.pem': No such file or directory  
kshitij.tripathi@del1-lp-n602641:~/Downloads\$ chmod 400 lubuntu.pem  
kshitij.tripathi@del1-lp-n602641:~/Downloads\$ ls -la  
kshitij.tripathi@del1-lp-n602641:~/Downloads\$ ssh -i "/Downloads/lubuntu.pem" ec2-user@ec2-3-189-122-85.ap-south-1.compute.amazonaws.com  
Amazon Linux AMI  
<https://aws.amazon.com/amazon-linux-ami/2018.03-release-notes/>  
39 package(s) needed for security, out of 63 available  
Run 'sudo yum update' to apply all updates  
(ec2-3-189-122-85:2-247 ~)\$ mysql -u admin -p  
Enter password:  
Welcome to the MySQL monitor. Commands end with ; or \g.  
Your MySQL connection id is 6  
Server version: 5.5.62 MySQL Community Server (GPL)  
  
Copyright (c) 2000, 2018, Oracle and/or its affiliates. All rights reserved.  
Oracle is a registered trademark of Oracle Corporation and/or its  
affiliates. Other names may be trademarks of their respective  
owners.  
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

18) Cloudformation Use LAMP Template & test  
Solution:



Activities Google Chrome ▾ Oct 27 20:08

S3 Management Console x +

s3.console.aws.amazon.com/s3/upload/globallogic2021?region=ap-south-1

aws Services ▾ Search for services, features, marketplace products, and docs [Alt+S]

We're continuing to improve the S3 console to make it faster and easier to use. If you have feedback on the updated experience, choose [Provide feedback](#).

Upload succeeded View details below.

Upload: status

The information below will no longer be available after you navigate away from this page.

**Summary**

Destination	Succeeded	Failed
s3://globallogic2021	1 file, 9.0 KB (100.00%)	0 files, 0 B (0%)

**Files and folders** Configuration

**Files and folders (1 Total, 9.0 KB)**

Name	Type	Size	Status	Error
download.jpeg	Image/jpeg	9.0 KB	Succeeded	-

Feedback English (US) ▾ © 2008 - 2021, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. Privacy Policy Terms of Use Cookie preferences

Activities Google Chrome ▾ Oct 27 20:17

S3 Management Console x CloudFront x

console.aws.amazon.com/cloudfront/v3/home?region=ap-south-1#/distributions/E3DY03915UVHND

aws Services ▾ Search for services, features, marketplace products, and docs [Alt+S]

Successfully created new distribution.

CloudFront > Distributions > E3DY03915UVHND

E3DY03915UVHND

General Origins Behaviors Error pages Geographic restrictions Invalidations Tags

**Details**

Distribution domain name d2lw6s5lo98vl.cloudfront.net	ARN arn:aws:cloudfront:488976890796:distribution/E3DY03915UVHND	Last modified Deploying
--	--	----------------------------

**Settings**

Description -	Alternate domain names -	Standard logging Off
Price class Use all edge locations (best performance)		Cookie logging Off
Supported HTTP versions HTTP/2, HTTP/1.1, HTTP/1.0		Default root object -
AWS WAF		

Feedback English (US) ▾ © 2008 - 2021, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. Privacy Policy Terms of Use Cookie preferences

Activities Google Chrome ▾ S3 Management Console x CloudFront x Oct 27 20:18

console.aws.amazon.com/cloudfront/v3/home?region=ap-south-1#/distributions/E3DY039ISUVHND/invalidations/details/I2T05IJ33JKWUS

Services ▾ Search for services, features, marketplace products, and docs [Alt+S]

CloudFront > Distributions > E3DY039ISUVHND > I2T05IJ33JKWUS

Successfully created invalidation I2T05IJ33JKWUS.

Invalidation details

Date created October 27, 2021 at 2:48:08 PM UTC

Status In progress

Object paths ./arn:aws:cloudfront:488976890796:distribution/E3DY039ISUVHND

Copy to new

Feedback English (US) ▾ © 2008 - 2021, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved. Privacy Policy Terms of Use Cookie preferences

This screenshot shows the AWS CloudFront Invalidations page. A success message at the top indicates an invalidation was created. The 'Invalidation details' section shows the creation date (October 27, 2021), status (In progress), and object paths (./arn:aws:cloudfront:488976890796:distribution/E3DY039ISUVHND). A 'Copy to new' button is also present.

Activities Google Chrome ▾ S3 Management Console x | CloudFront x https://d2lw6sslo98v1.cloudfront.net Oct 27 20:20

d2lw6sslo98v1.cloudfront.net

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
<Error>
<Code>AccessDenied</Code>
<Message>Access Denied</Message>
<RequestId>FSMSTKSHBCEPHNA</RequestId>
<HostId>d2lw6sslo98v1.cloudfront.net</HostId>
<RequestID>EKK7PrUjN4tyzKht8vE6SezKyg8</RequestID>
<RequestId>D2HhJP9X80000YmGtIAxK185jKo+27dzPy2yJwShal6r</RequestId>
<HostId>D2HhJP9X80000YmGtIAxK185jKo+27dzPy2yJwShal6r/EKK7PrUjN4tyzKht8vE6SezKyg8</HostId>
```

This screenshot shows a browser displaying an XML error response. The page title is 'https://d2lw6sslo98v1.cloudfront.net'. The content area displays an XML error message with various IDs and request identifiers.

