

# Assignment Day 5 and 6 | 11th October 2020

## Manish Patel

### PROJECT 1:

### Working with IAM Roles with S3 and bootstrapping with EC2

#### SS1: edit user data

Step 3: Configure Instance Details

**Elastic Inference** ⓘ ☐ Add an Elastic Inference accelerator  
Additional charges will apply for dedicated tenancy.  
Additional charges apply.

**Credit specification** ⓘ ☐ Unlimited  
Additional charges may apply.

**File systems** ⓘ [Add file system](#) [Create new file system](#)

▼ **Advanced Details**

**Metadata accessible** ⓘ Enabled

**Metadata version** ⓘ V1 and V2 (token optional)

**Metadata token response hop limit** ⓘ 1

**User data** ⓘ ☒ As text ☐ As file ☐ Input is already base64 encoded

```
#!/bin/bash
yum -y install httpd
service httpd start
```

[Cancel](#) [Previous](#) [Review and Launch](#) [Next: Add Storage](#)

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#### Ss2: list of ec2 instances with description

aws Services

New EC2 Experience Tell us what you think

EC2 Dashboard New

Events New

Tags

Limits

▼ Instances

Instances New

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts New

Capacity Reservations

▼ Images

AMIs

▼ Elastic Block Store

Volumes

Snapshots

Life Cycle Management

Instances (1/1) Info

Filter instances

| <input checked="" type="checkbox"/> | Name    | Instance ID         | Instance state | Instance type | Status check   | Alarm Status | Availability zone | Pub  |
|-------------------------------------|---------|---------------------|----------------|---------------|----------------|--------------|-------------------|------|
| <input checked="" type="checkbox"/> | demomnp | i-0ad59d2ad35d2c0e7 | Running        | t2.micro      | 2/2 checks ... | No alarms +  | us-east-2b        | ec2- |

Instance: i-0ad59d2ad35d2c0e7 (demomnp)

Details Security Networking Storage Status Checks Monitoring Tags

▼ Instance summary Info

|                               |   |   |
|-------------------------------|---|---|
| Instance ID                   | Public IPv4 address   | Private IPv4 addresses                      |
| i-0ad59d2ad35d2c0e7 (demomnp) | 18.217.77.32   open address                                     | 172.31.22.139                               |
| Instance state                | Public IPv4 DNS   | Private IPv4 DNS                            |
| Running                       | ec2-18-217-77-32.us-east-2.compute.amazonaws.com   open address | ip-172-31-22-139.us-east-2.compute.internal |
| Instance type                 | Elastic IP addresses  | VPC ID                                      |
| t2.micro                      | -   | vpc-7074d71b                                |
| IAM Role                      | Subnet ID   |   |

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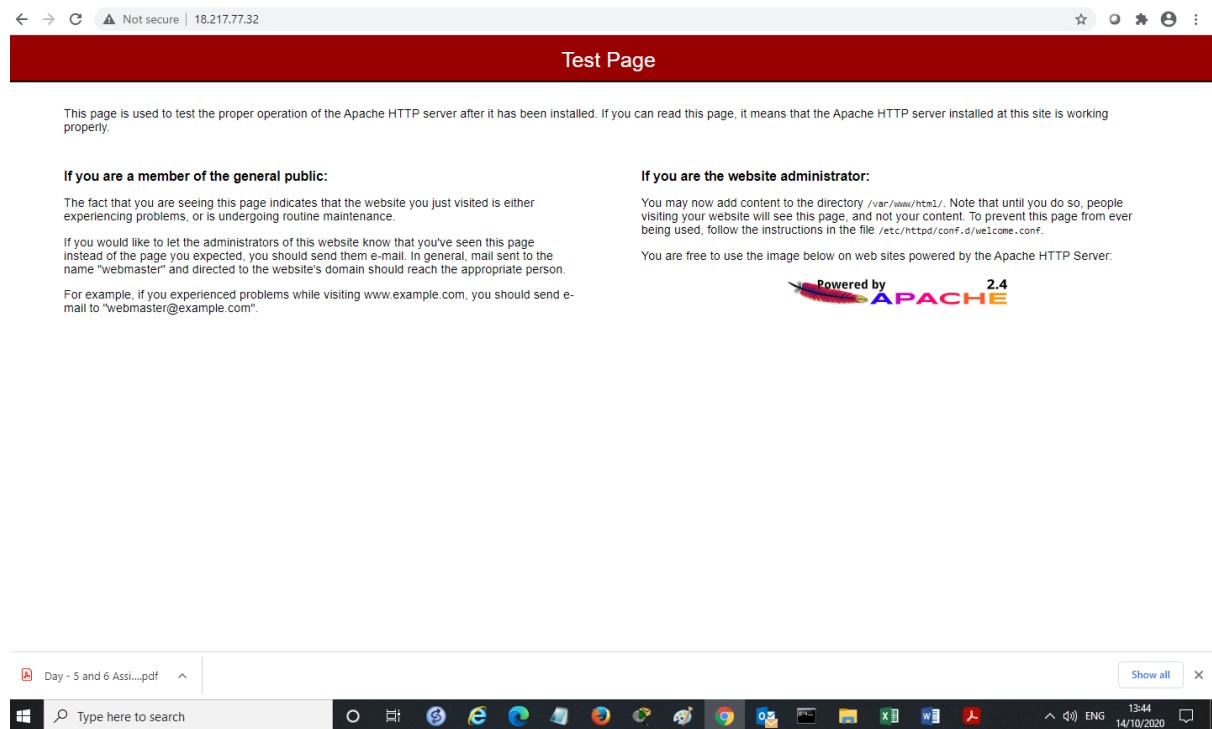
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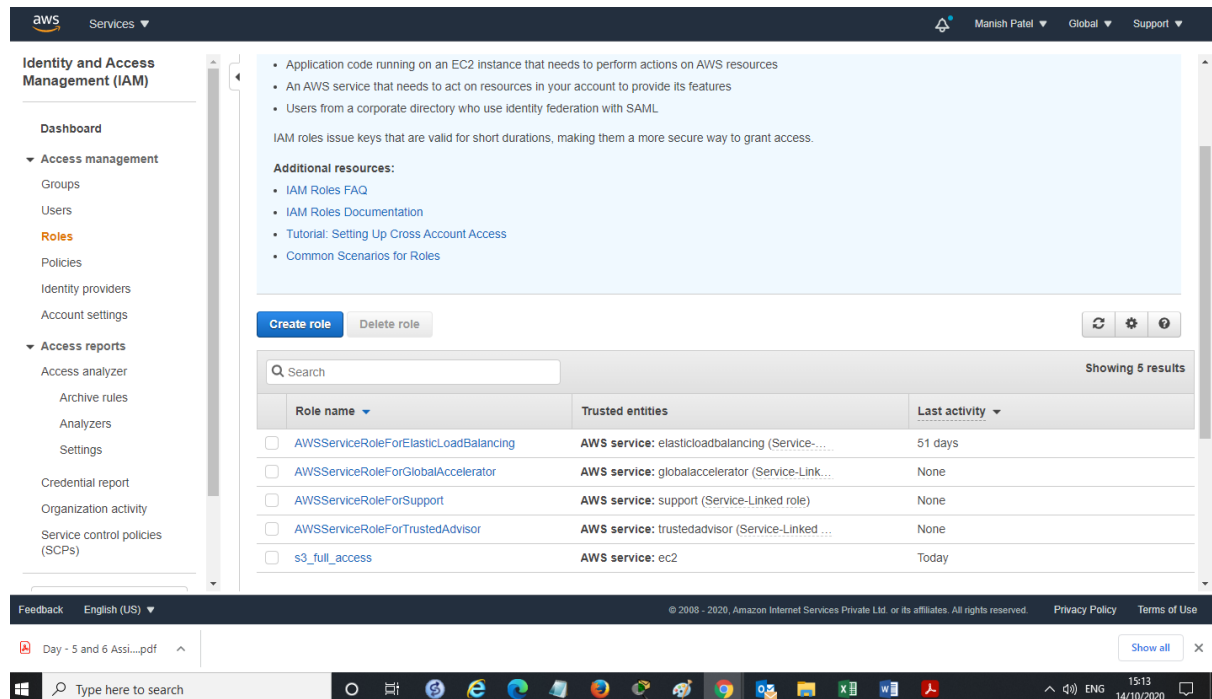
## Ss3: test page

S

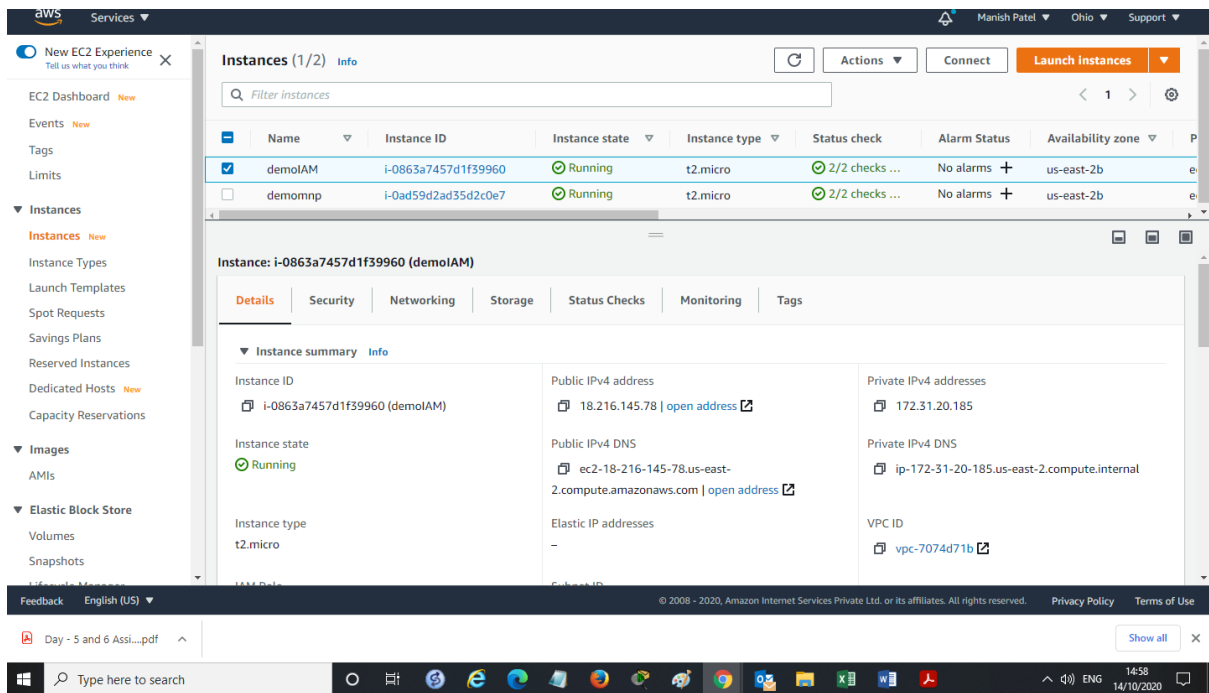


## Task 2: Checking bucket list and creating a new bucket from EC2 using IAM Roles

### Ss1: user data



### Ss2:ss2: list of ec2 instances with description



Ss3: 3 commands to be executed and outputs displayed

```
[root@ip-172-31-20-185 ec2-user]# aws s3 ls
[root@ip-172-31-20-185 ec2-user]# aws s3 ms s3://letsupgare10
usage: aws [options] <command> <subcommand> [<subcommand> ...] [parameters]
To see help text, you can run:
```

```
pot@ip-172-31-20-185 ec2-user]#
pot@ip-172-31-20-185 ec2-user]#
pot@ip-172-31-20-185 ec2-user]# aws s3 mb s3://letsupgare10
ke_bucket: letsupgare10
pot@ip-172-31-20-185 ec2-user]# aws s3 ls
20-10-14 09:24:45 letsupgare10
pot@ip-172-31-20-185 ec2-user]#
```

-0863a7457d1f39960 (demoIAM)

Public IPs: 18.216.145.78 Private IPs: 172.31.20.185



## Task 3: Hosting a webpage using the bootstrap script on ec2.

### Ss1: user data

us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#Instances:

Services

New EC2 Experience

EC2 Dashboard

Events

Tags

Limits

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

Images

AMIs

Elastic Block Store

Volumes

Snapshots

Instances (1/4)

Filter instances

| Name        | Instance ID         | Instance state | Instance type | Status check   | Alarm Status | Availability zone |
|-------------|---------------------|----------------|---------------|----------------|--------------|-------------------|
| demo3mnpIAM | i-02f180f7239cebfde | Running        | t2.micro      | 2/2 checks ... | No alarms    | us-east-2c        |
| demoIAM     | i-0863a7d57d1f39960 | Terminated     | t2.micro      | -              | No alarms    | us-east-2b        |

Instance summary

Instance ID: i-02f180f7239cebfde (demo3)

Instance state: Running

Instance type: t2.micro

IAM Role: s3\_full\_access

Public IPv4 address: 3.138.186.158 | open address

Public IPv4 DNS: ec2-3-138-186-158.us-east-2.compute.amazonaws.com | open address

Private IPv4 addresses: 172.31.35.28

Private IPv4 DNS: ip-172-31-35-28.us-east-2.compute.internal

Elastic IP addresses: -

Subnet ID: subnet-49533b05

VPC ID: vpc-7074d71b

Platform: Amazon Linux 2

AMI ID: ami-0c55b199

Monitoring: CloudWatch

### Ss2:s3 bucket, index.html

s3.console.aws.amazon.com/s3/home?region=us-east-2

Services

Amazon S3

Buckets

Batch operations

Access analyzer for S3

Block public access (account settings)

Feature spotlight

Access S3-backed file shares on premises and reduce local storage costs using AWS Storage Gateway. Learn more » Documentation

We've temporarily re-enabled the previous version of the S3 console while we continue to improve the new S3 console experience. Switch to the new console.

S3 buckets

Search for buckets

All access types

Create bucket

Edit public access settings

Empty

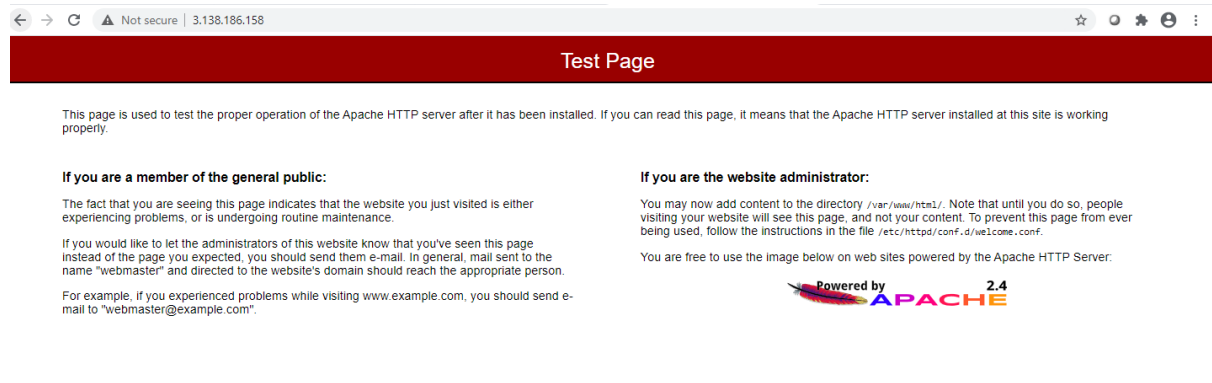
Delete

2 Buckets

2 Regions

| Bucket name     | Access                        | Region                | Date created                     |
|-----------------|-------------------------------|-----------------------|----------------------------------|
| letsupare10     | Objects can be public         | US East (N. Virginia) | Oct 14, 2020 2:54:45 PM GMT+0530 |
| s3-tester123456 | Bucket and objects not public | US East (Ohio)        | Oct 14, 2020 3:21:50 PM GMT+0530 |

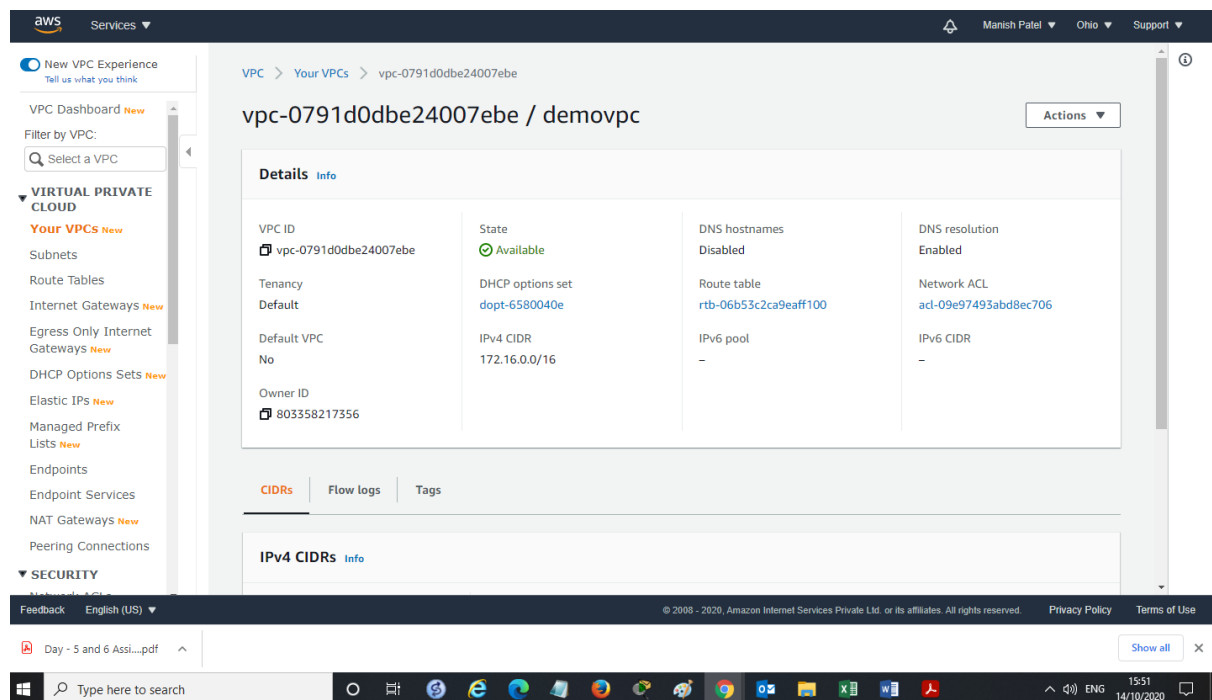
## Ss3: testing using public IP



## PROJECT 2: Creating an EC2 instance in custom VPC

### Task1: Create a VPC

#### Ss1: vpc created



## Task 2: Create an Internet gateway

### Ss2: igw with vpc associated

The screenshot shows the AWS Management Console interface for an Internet Gateway. The breadcrumb navigation indicates the path: VPC > Internet gateways > igw-08d230abc93e77a86. The main heading is 'igw-08d230abc93e77a86 / demoIGW'. Below this, the 'Details' tab is active, showing the following information:

| Internet gateway ID   | State    | VPC ID                          | Owner        |
|-----------------------|----------|---------------------------------|--------------|
| igw-08d230abc93e77a86 | Attached | vpc-0791d0dbe24007ebe   demovpc | 803358217356 |

Below the details, the 'Tags' section shows a single tag:

| Key  | Value   |
|------|---------|
| Name | demoIGW |

The left sidebar shows the 'VIRTUAL PRIVATE CLOUD' section with various options like 'Your VPCs', 'Subnets', 'Route Tables', 'Internet Gateways', etc. The bottom of the screen shows a Windows taskbar with various application icons and a search bar.

## Task3: Create a route table

### Ss3: route table with routes

The screenshot shows the AWS Management Console interface for Route Tables. The breadcrumb navigation indicates the path: VPC > Route tables > rtb-0b8cfed631737c254. The main heading is 'Route Table: rtb-0b8cfed631737c254'. Below this, the 'Routes' tab is active, showing the following routes:

| Destination   | Target                | Status | Propagated |
|---------------|-----------------------|--------|------------|
| 172.16.0.0/16 | local                 | active | No         |
| 0.0.0.0/0     | igw-08d230abc93e77a86 | active | No         |

The left sidebar shows the 'VIRTUAL PRIVATE CLOUD' section with various options like 'Your VPCs', 'Subnets', 'Route Tables', 'Internet Gateways', etc. The bottom of the screen shows a Windows taskbar with various application icons and a search bar.

## Task4: Create a subnet

### Ss4: subnet screen

aws Services

New VPC Experience

VPC Dashboard

Filter by VPC:

Select a VPC

**VIRTUAL PRIVATE CLOUD**

Your VPCs

**Subnets**

Route Tables

Internet Gateways

Egress Only Internet Gateways

DHCP Options Sets

Elastic IPs

Managed Prefix Lists

Endpoints

Endpoint Services

NAT Gateways

Peering Connections

**SECURITY**

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Create subnet Actions

Filter by tags and attributes or search by keyword

| Name            | Subnet ID                | State     | VPC                      | IPv4 CIDR     | Available IPv4 | IPv6 CIDR | Availability Zone |
|-----------------|--------------------------|-----------|--------------------------|---------------|----------------|-----------|-------------------|
| demosubnet1     | subnet-079d40fe9ea7f7f70 | available | vpc-0791d0dbe24007ebe... | 172.16.0.0/16 | 65531          | -         | us-east-2b        |
| subnet-3e408b55 | subnet-3e408b55          | available | vpc-7074071b             | 172.31.0.0/20 | 4091           | -         | us-east-2a        |

Subnet: subnet-079d40fe9ea7f7f70

Description Flow Logs Route Table Network ACL Tags Sharing

Subnet ID: subnet-079d40fe9ea7f7f70

VPC: vpc-0791d0dbe24007ebe | demovpc

State: available

Available IPv4 Addresses: 65531

Availability Zone: us-east-2b (use2-az2)

Network ACL: acl-09e97493abd8ec706

Auto-assign public IPv4 address: No

Customer-owned IPv4 pool: -

Outpost ID: -

IPv4 CIDR: 172.16.0.0/16

IPv6 CIDR: -

Route Table: rtb-0b8cfd631737c254 | demoroute

Default subnet: No

Auto-assign customer-owned IPv4 address: No

Auto-assign IPv6 address: No

Owner: 803358217356

## Task5: Create an EC2 in custom vpc

### Ss5: ec2 dashboard

aws Services

New EC2 Experience

EC2 Dashboard

Events

Tags

Limits

**Instances**

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EC2 > Instances > i-06bed3279f8aa7a22

Instance summary for i-06bed3279f8aa7a22 (VPCdemo)

Updated less than a minute ago

Instance ID: i-06bed3279f8aa7a22 (VPCdemo)

Instance state: Running

Instance type: t2.micro

IAM Role: -

Public IPv4 address: 13.58.29.94 | open address

Public IPv4 DNS: -

Elastic IP addresses: -

Subnet ID: subnet-079d40fe9ea7f7f70 (demosubnet1)

Private IPv4 addresses: 172.16.123.109

Private IPv4 DNS: ip-172-16-123-109.us-east-2.compute.internal

VPC ID: vpc-0791d0dbe24007ebe (demovpc)

AWS Compute Optimizer

Opt-in to AWS Compute Optimizer for recommendations. Learn more

Details Security Networking Storage Monitoring Tags

Task 6: Check ipconfig in VM command prompt.  
Ss6: cmd prompt: ipconfig

