

## PROJECT 1:

- Working with IAM Roles with S3 and bootstrapping with EC2

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

Create an IAM role(instance name demo3)

Create a bucket and upload index.html(In index.html - Welcome to my webpage)

Create a Linux instance with the above role and use this bootstrap script.

The screenshot shows the 'Review' step of creating an IAM role in the AWS console. The role name is 'S3\_FACCESS\_IAM1'. The role description is 'Allows EC2 instances to call AWS services on your behalf.' The trusted entities are 'AWS service: ec2.amazonaws.com'. The policies attached are 'AmazonS3FullAccess'. The permissions boundary is 'Permissions boundary is not set'. A table shows the tag 'ACCESSER1' with the value 'S3\_ACCESS1'.

Review

Provide the required information below and review this role before you create it.

Role name\* S3\_FACCESS\_IAM1

Use alphanumeric and '+,=, @, \_' characters. Maximum 64 characters.

Role description

Allows EC2 instances to call AWS services on your behalf.

Maximum 1000 characters. Use alphanumeric and '+,=, @, \_' characters.

Trusted entities AWS service: ec2.amazonaws.com

Policies AmazonS3FullAccess

Permissions boundary Permissions boundary is not set

The new role will receive the following tag

Key	Value
ACCESSER1	S3_ACCESS1

\* Required

Cancel Previous Create role

The screenshot shows the Amazon S3 console for the 'dora' bucket. The 'Overview' tab is selected. The bucket is located in 'US East (Ohio)'. A table shows the file 'index.html' uploaded on 'Oct 16, 2020 6:59:43 PM GMT+0530' with a size of '0 B' and 'Standard' storage class.

Amazon S3 > dora

dora

Overview Properties Permissions Management Access points

Type a prefix and press Enter to search. Press ESC to clear.

Upload Create folder Download Actions

US East (Ohio)

Viewing 1 to 1

Name	Last modified	Size	Storage class
index.html	Oct 16, 2020 6:59:43 PM GMT+0530	0 B	Standard

Viewing 1 to 1

- Initialize the IAM role & then put a script in USER DATA section.

The screenshot shows the 'Step 3: Configure Instance Details' page in the AWS Management Console. The page is divided into several sections: Monitoring, Tenancy, Elastic Inference, Credit specification, File systems, and Advanced Details. In the 'Advanced Details' section, the 'User data' field is populated with a script: 

```
#!/bin/bash
yum install httpd -y
aws s3 cp s3://s3-doraa/index.html /var/www/html
service httpd start
chkconfig httpd on
```

- Launched an instance.

The screenshot shows the 'Instance summary' page for an EC2 instance with ID i-0f80de69838562077. The instance is in the 'Running' state. The summary table includes the following information:

Instance ID	Public IPv4 address	Private IPv4 addresses
i-0f80de69838562077 (TASK)	3.20.223.233   <a href="#">open address</a>	172.31.47.172
Instance state	Public IPv4 DNS	Private IPv4 DNS
Running	ec2-3-20-223-233.us-east-2.compute.amazonaws.com   <a href="#">open address</a>	ip-172-31-47-172.us-east-2.compute.internal
Instance type	Elastic IP addresses	VPC ID
t2.micro	-	vpc-4e46e525
IAM Role	Subnet ID	
S3_FACCESS_IAM1	subnet-bf5038f3	

Below the summary table, there is a section for 'AWS Compute Optimizer' with a 'Learn more' link. At the bottom, there are tabs for 'Details', 'Security', 'Networking', 'Storage', 'Monitoring', and 'Tags'. The 'Details' tab is currently selected, showing 'Instance details'.

Then connecting,

✓ Copying public address

# ❖ Output-

