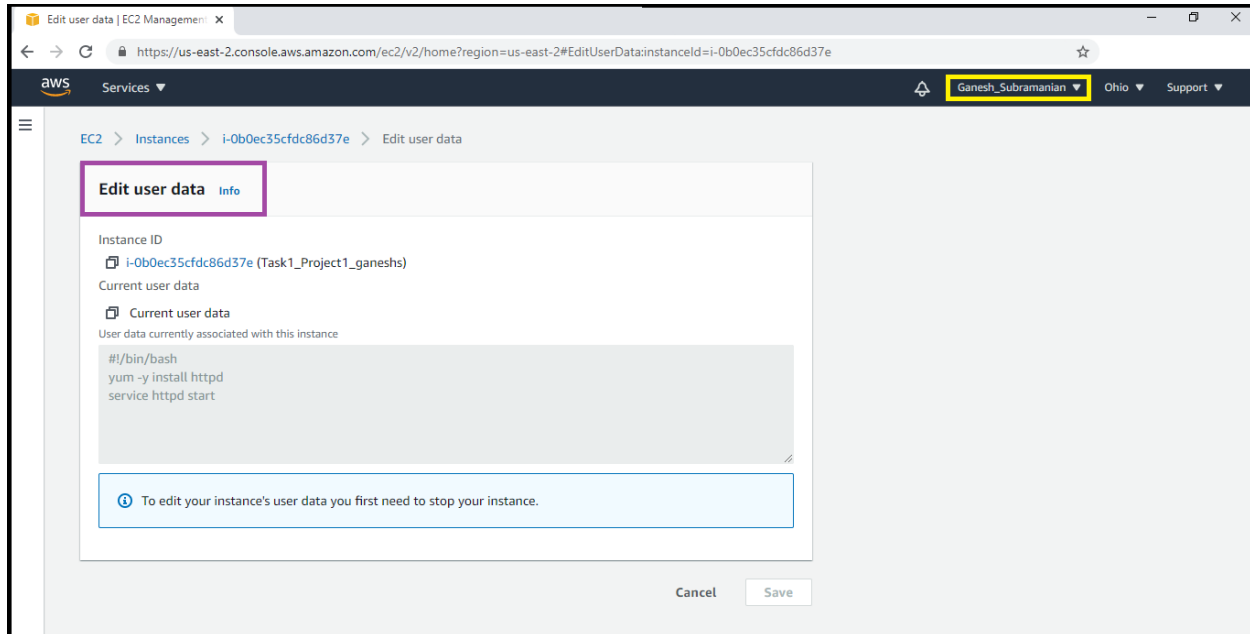


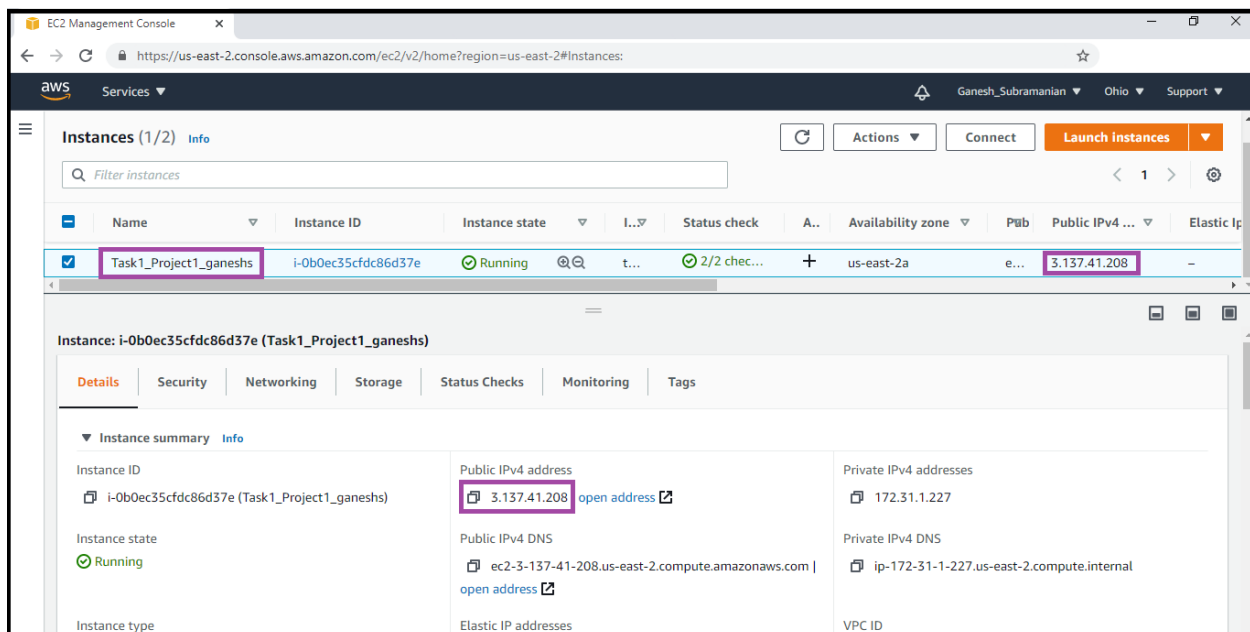
# PROJECT 1:

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

### Task 1: Creating a bootstrapped instance



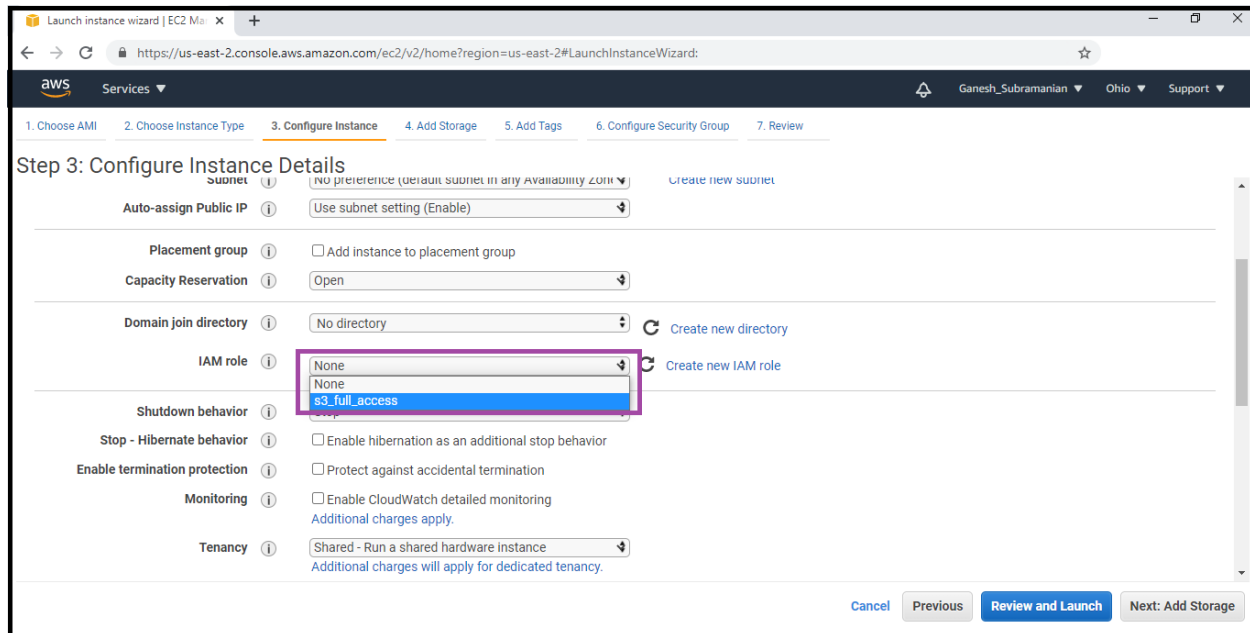
Edit User Data



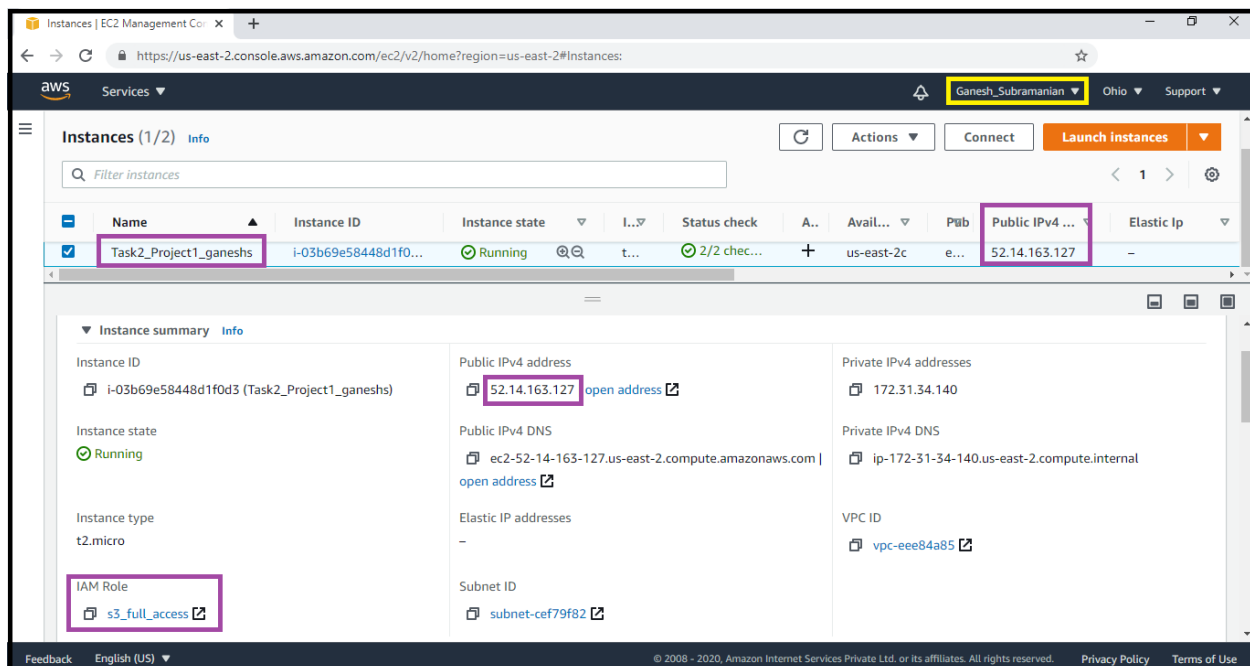
List of ec2 instances with description



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



EC2 instance getting attached to IAM Role



EC2 instances with its relevant description

```
https://us-east-2.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-03b69e58448d1f0d3

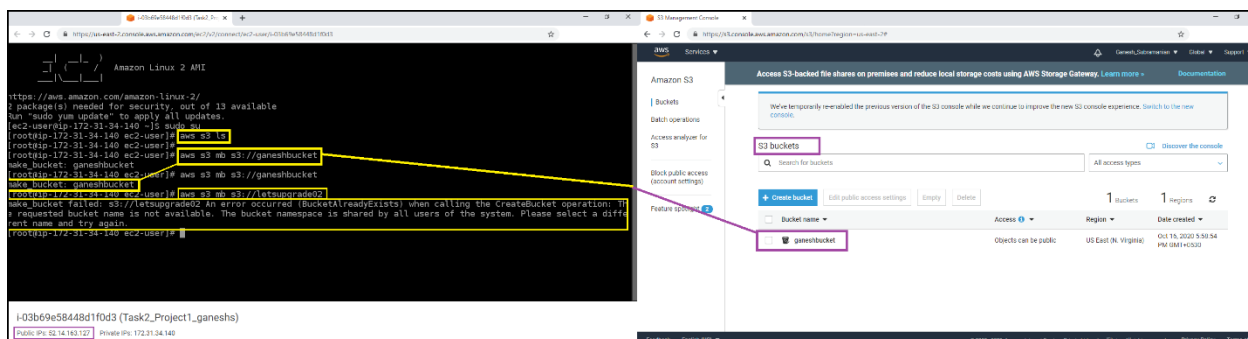
Amazon Linux 2 AMI

https://aws.amazon.com/amazon-linux-2/
2 package(s) needed for security, out of 13 available
Run "sudo yum update" to apply all updates.
ec2-user@ip-172-31-34-140 ~]$ sudo su
root@ip-172-31-34-140 ec2-user]# aws s3 ls
root@ip-172-31-34-140 ec2-user]#
root@ip-172-31-34-140 ec2-user]# aws s3 mb s3://ganeshbucket
make_bucket: ganeshbucket
root@ip-172-31-34-140 ec2-user]# aws s3 mb s3://ganeshbucket
make_bucket: ganeshbucket
root@ip-172-31-34-140 ec2-user]# aws s3 mb s3://letsupgrade02
make_bucket failed: s3://letsupgrade02 An error occurred (BucketAlreadyExists) when calling the CreateBucket operation: The requested bucket name is not available. The bucket namespace is shared by all users of the system. Please select a different name and try again.
root@ip-172-31-34-140 ec2-user]#
```

i-03b69e58448d1f0d3 (Task2\_Project1\_ganeshs)

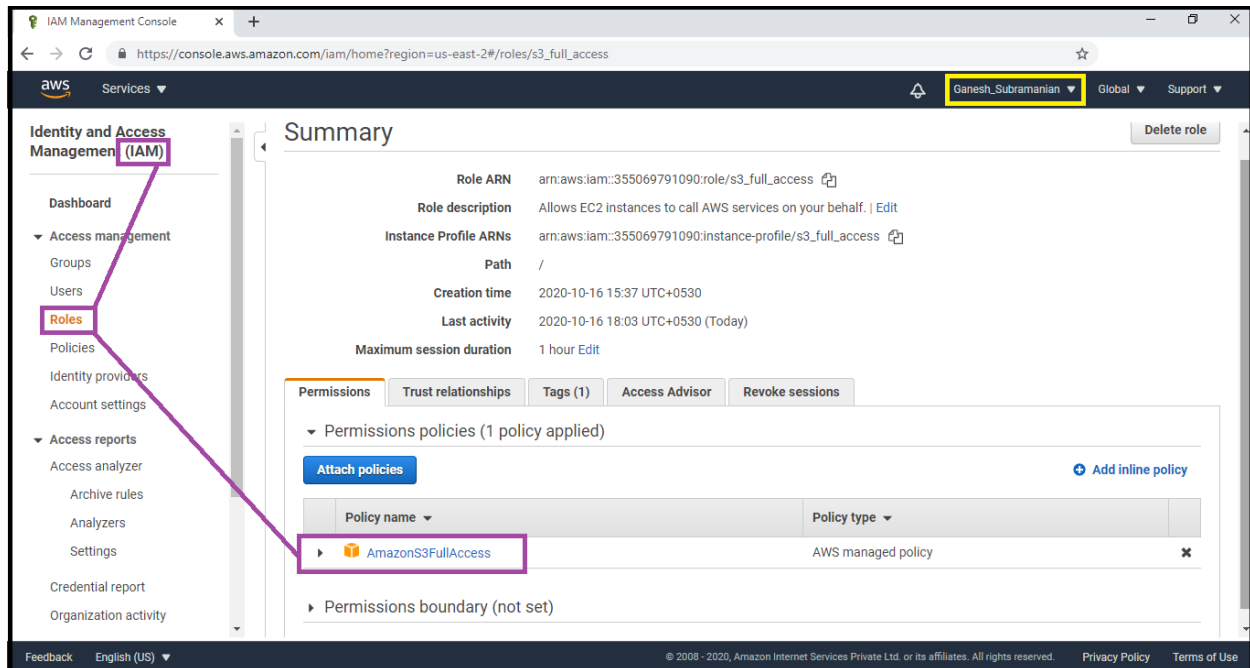
Public IPs: 52.14.163.127 Private IPs: 172.31.34.140

Commands which were executed (Highlighted in Yellow) and their respective outputs being displayed

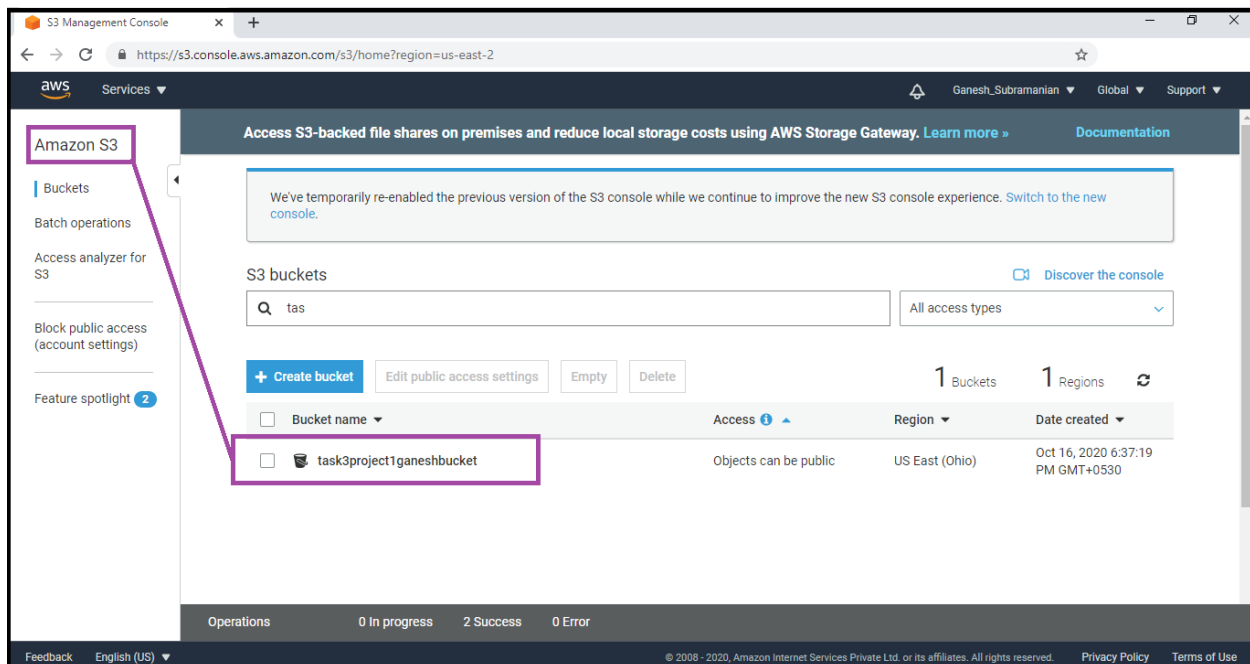


Executed Commands through CLI and the same is being reflected in the GUI  
(New Bucket "ganeshbucket") created via CLI is being displayed in the GUI of S3 Bucket section

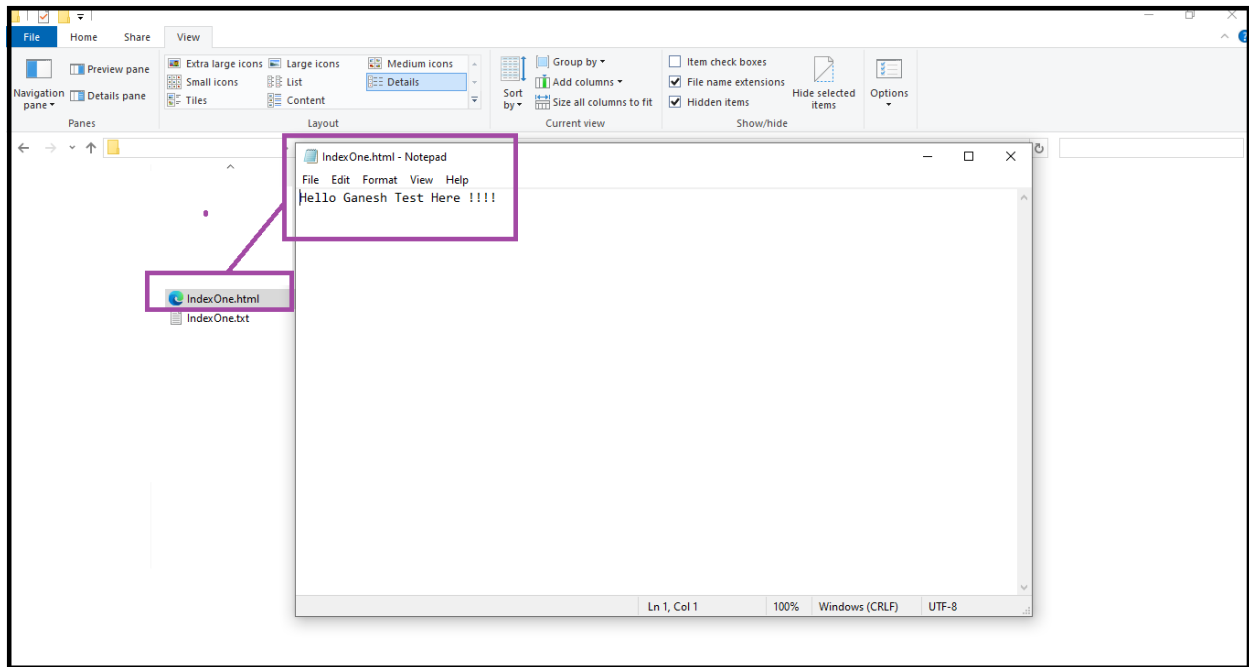
### Task 3: Hosting a webpage using the bootstrap script on ec2.



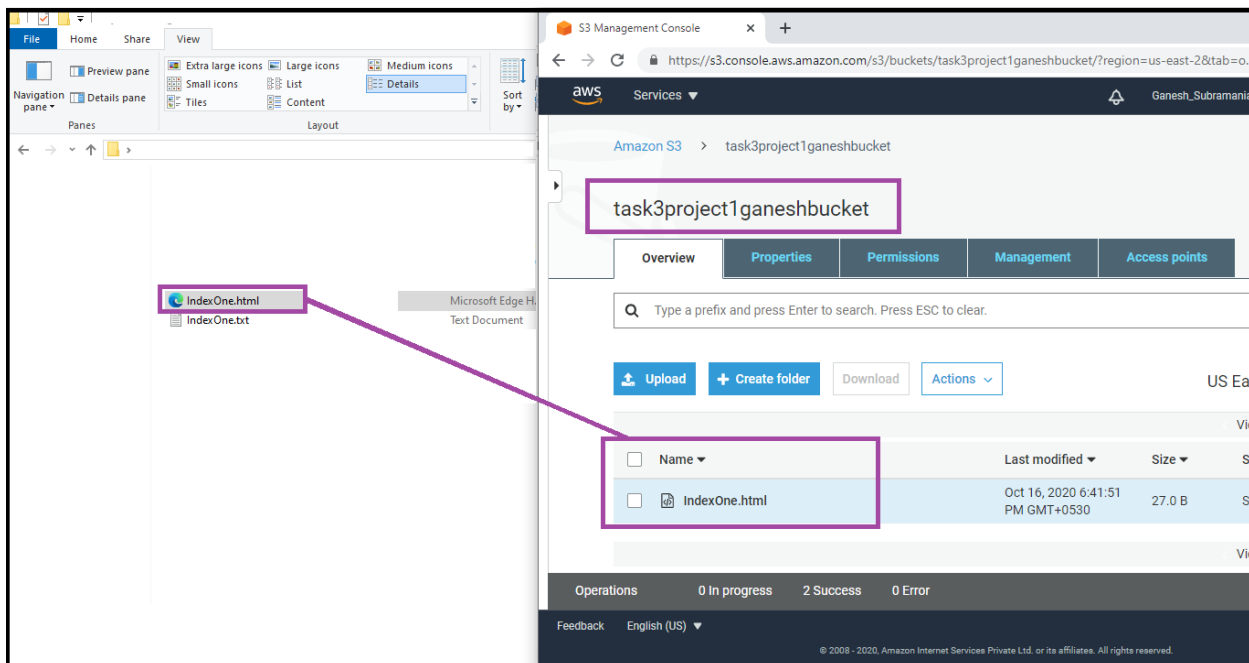
Creation of IAM Role (AmazonS3FullAccess)



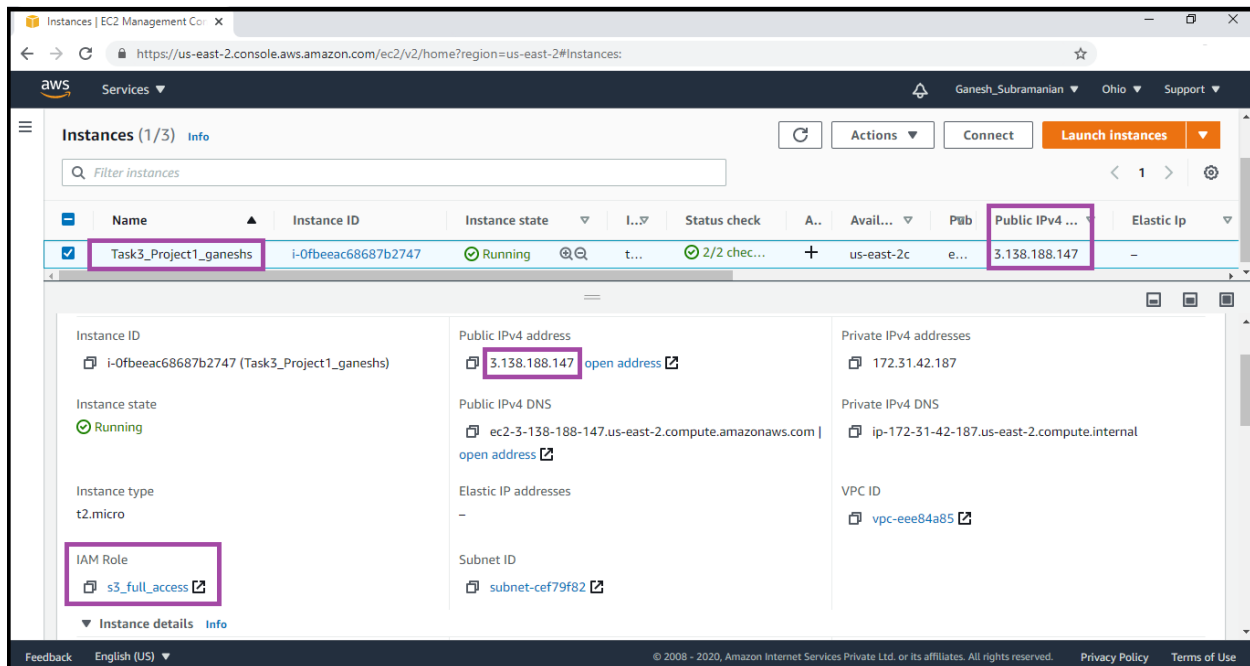
Creation of a S3 Bucket



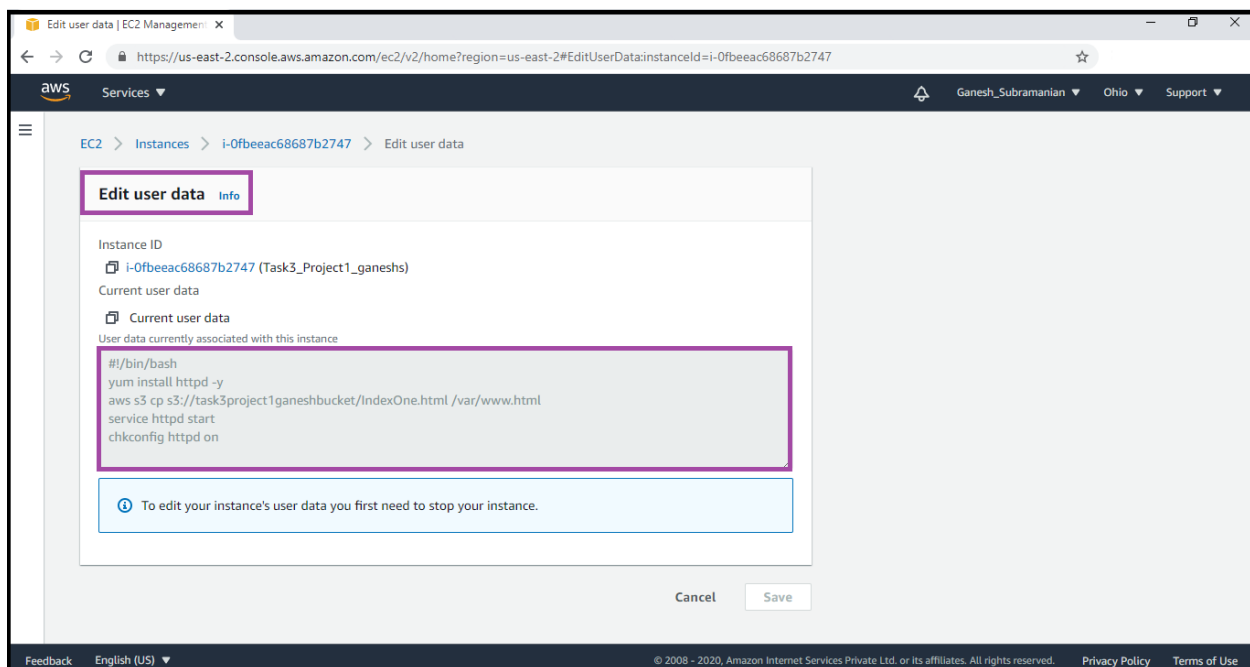
Creation of IndexOne.html file



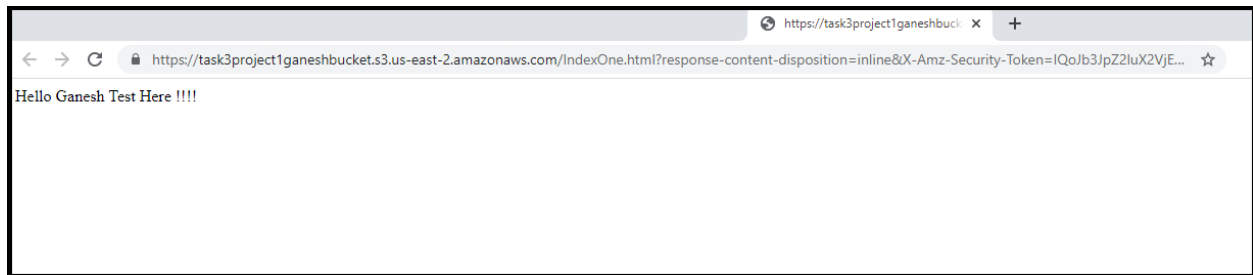
Uploading the IndexOne.html to the S3 Created Bucket (task3project1ganeshbucket)



Creation of EC2 Instance with IAM Roles (Highlighted in the above image)



Edit User Data Details



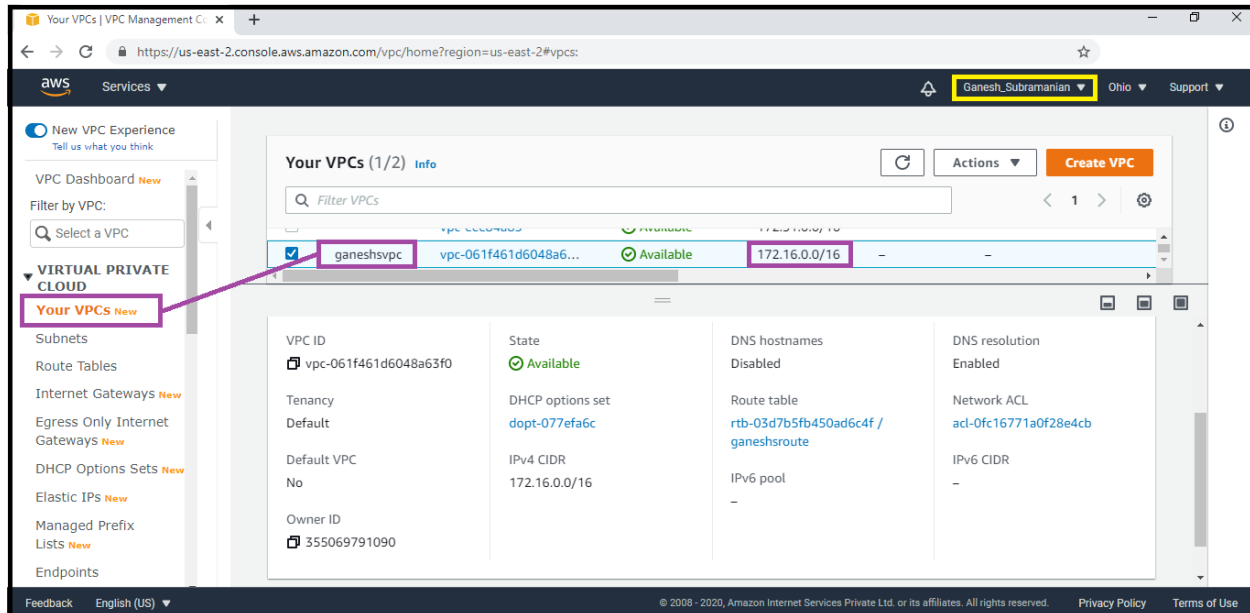
The Content of the HTML File uploaded



## PROJECT 2:

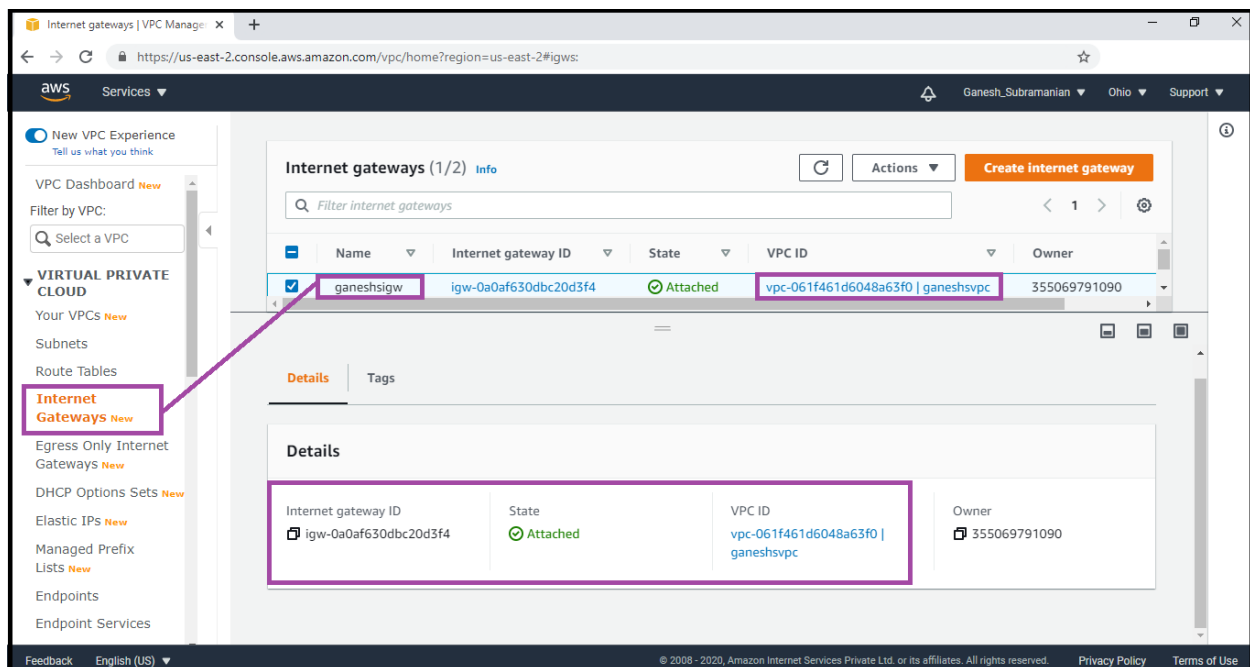
### Creating an EC2 instance in custom VPC

#### Task1: Create a VPC



VPC (ganeshsvpc) Created

#### Task 2: Create an Internet gateway



Internet Gateway (ganeshsigw) associated with vpc (ganeshsvpc)

### Task3: Create a route table

Route Table: rtb-03d7b5fb450ad6c4f

Destination	Target	Status	Propagated
172.16.0.0/16	local	active	No
0.0.0.0/0	lgw-0a0af630dbc20d3f4	active	No

Route table with routes (ganeshsroute)

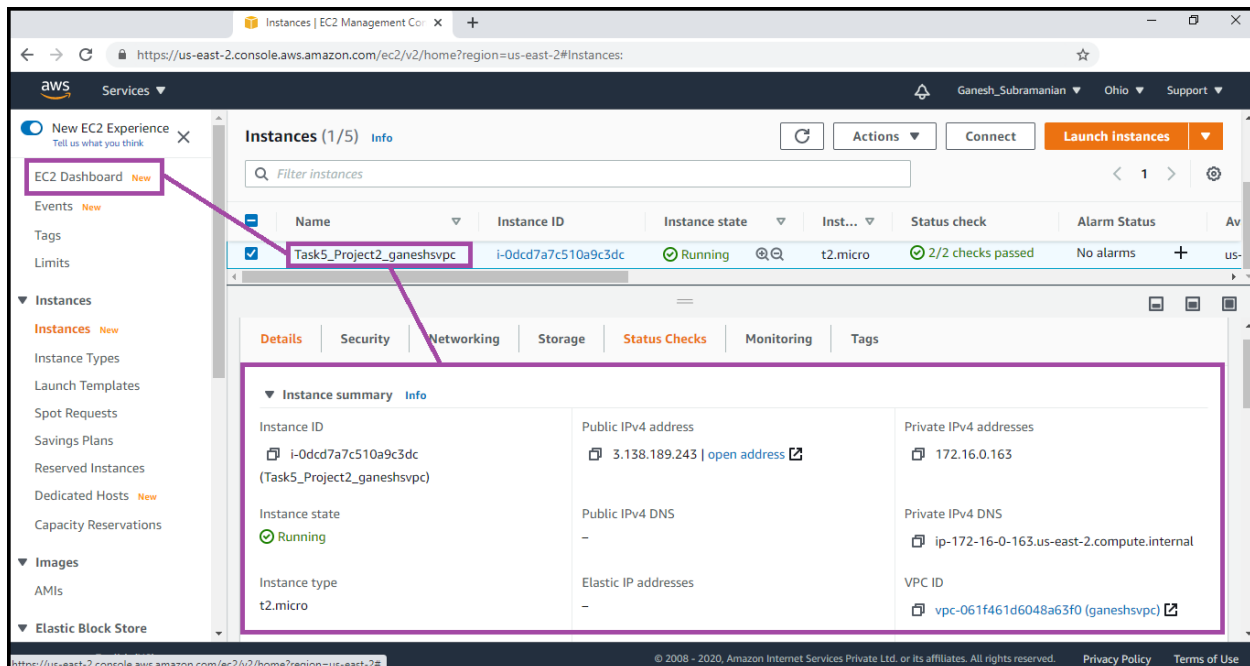
### Task4: Create a subnet

Subnet: subnet-0ab108f936c5bd90c

Description	
Subnet ID	subnet-0ab108f936c5bd90c
VPC	vpc-061f461d6048a63f0   ganeshsvpc
State	available
Available IPv4 Addresses	250
Availability Zone	us-east-2c (use2-az3)
Network ACL	acl-0fc16771a0f28e4cb
Auto-assign public IPv4 address	Yes
Customer-owned IPv4 pool	-
Outpost ID	-
IPv4 CIDR	172.16.0.0/24
IPv6 CIDR	-
Route Table	rtb-03d7b5fb450ad6c4f   ganeshsroute
Default subnet	No
Auto-assign customer-owned IPv4 address	No
Auto-assign IPv6 address	No
Owner	355069791090

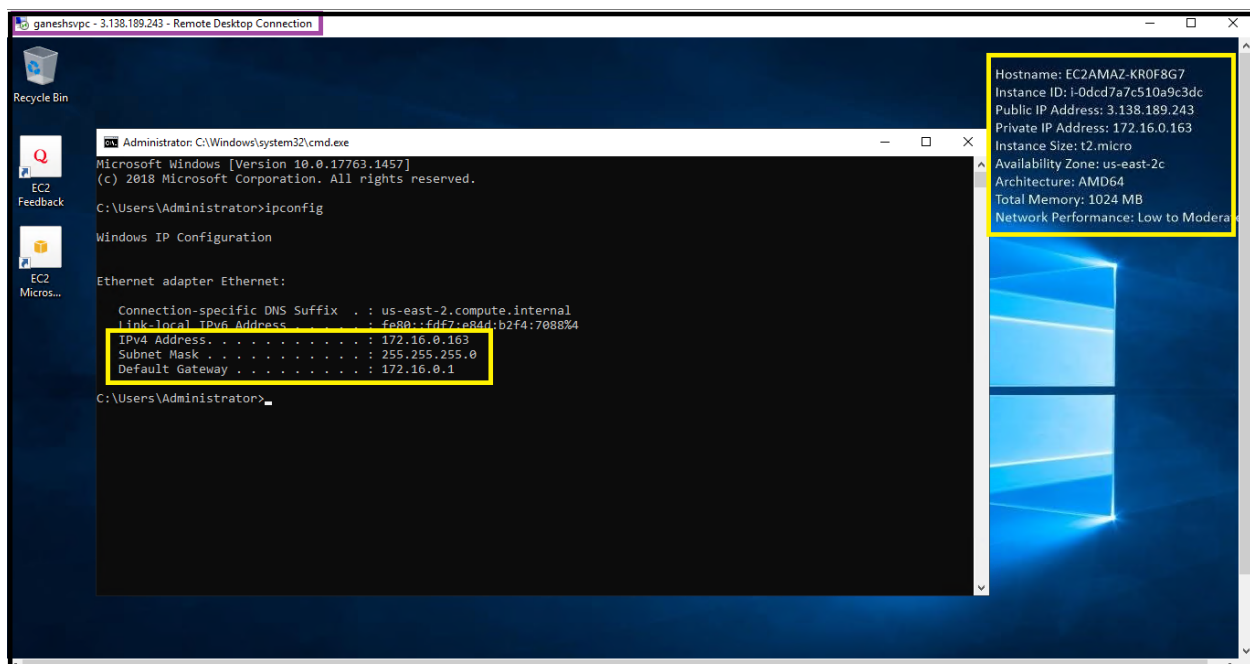
Subnet created (ganeshssubnet)

## Task5: Create an EC2 in custom vpc



EC2 Instance dashboard details

## Task 6: Check ipconfig in VM command prompt.



Ipconfig of the RDP displayed (Highlighted)