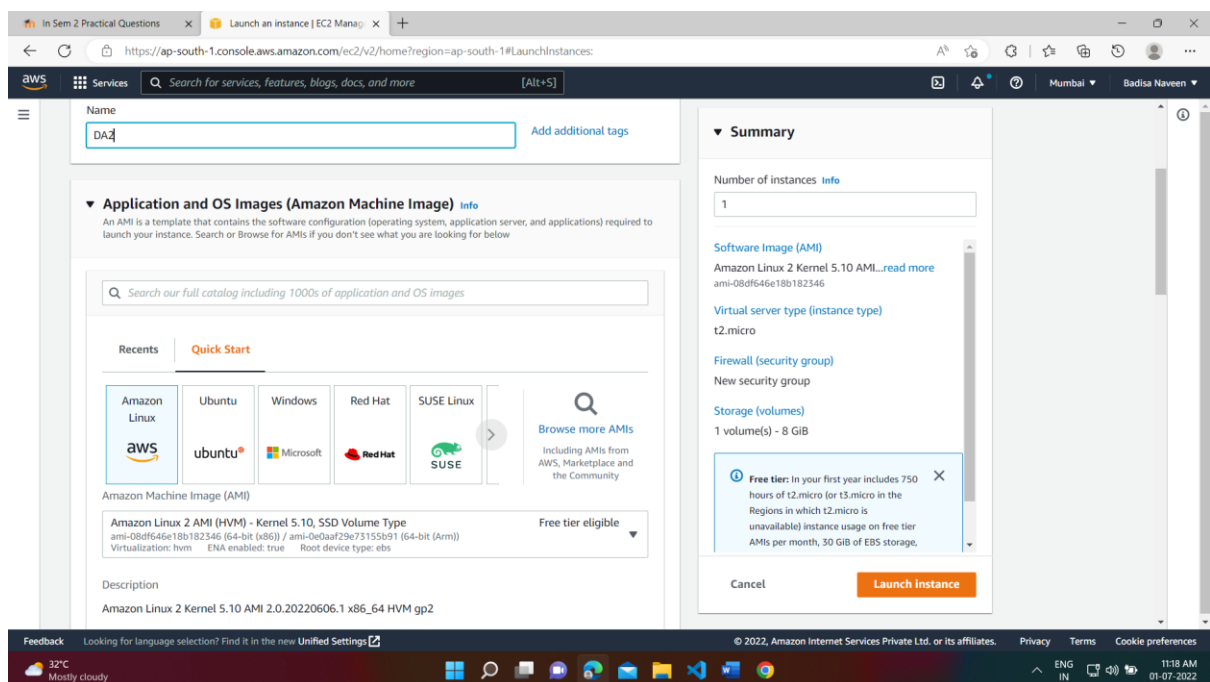


Question

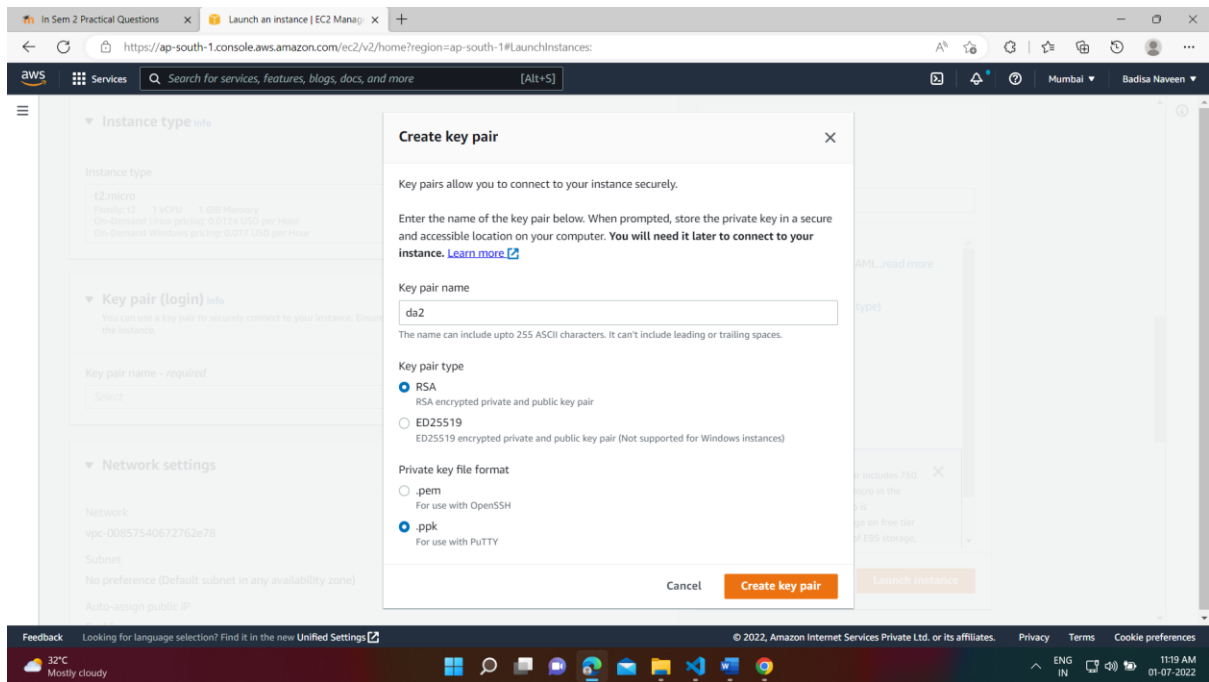
It is time for the continuous deployment, For AWS CodeDeploy, access ec2 instance using putty command prompt (possible using the access key of admin user). Install the code deploy softwares in ec2 instances through AWS CLI. Create necessary IAM role for code deploy to access ec2 instance and link s3 bucket artifacts to code deploy through AWS CLI and finally, Deploy the application to ec2 instance (If required, you can use the sample application: <https://github.com/balajee-rm/lab/blob/main/devops-with-aws-application.zip>).

A.

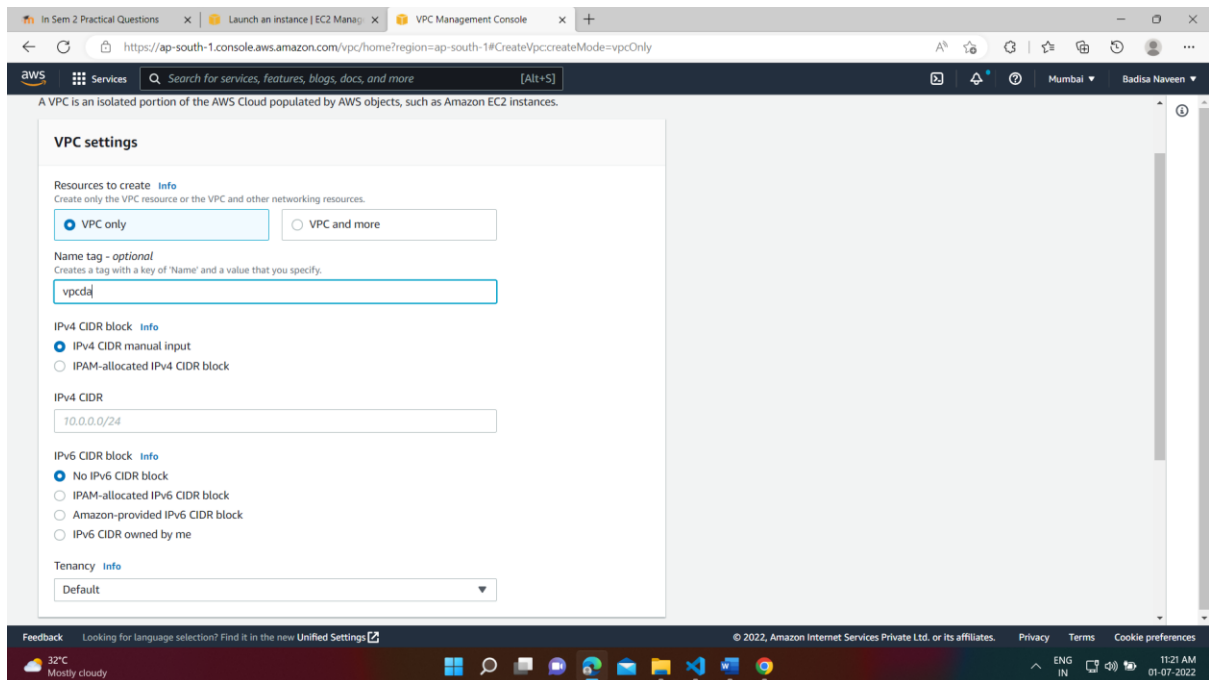
Step1: Launch an Amazon EC2 instance



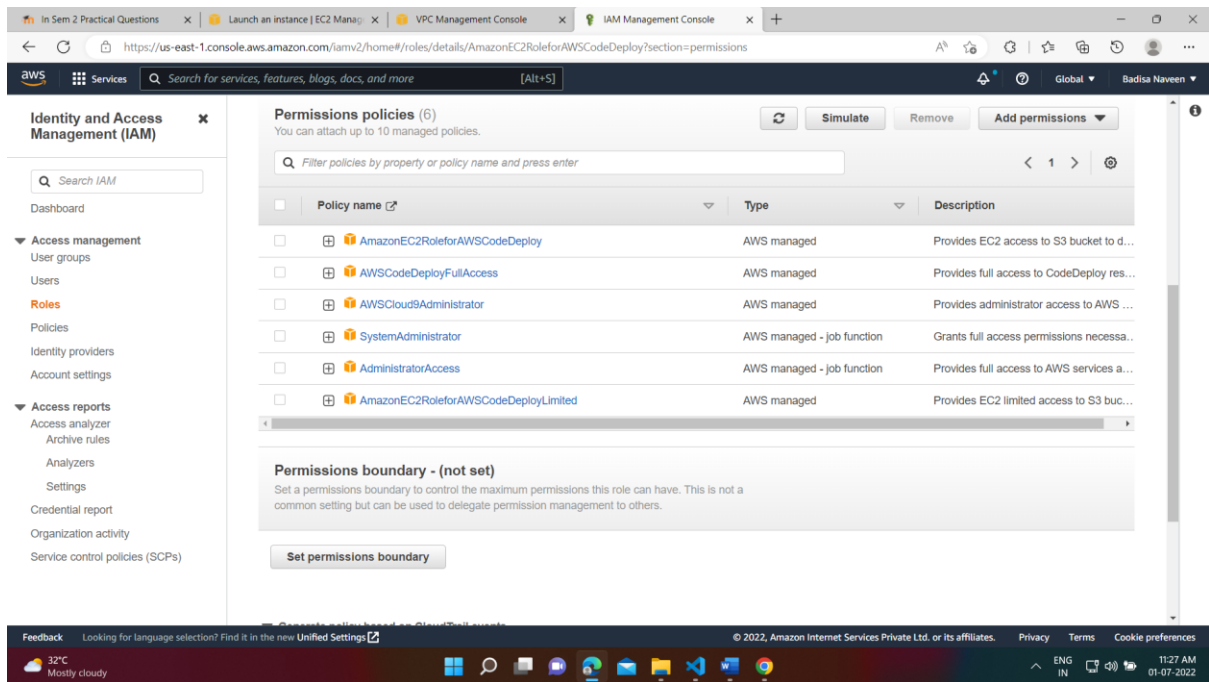
Step2: create a new key pair



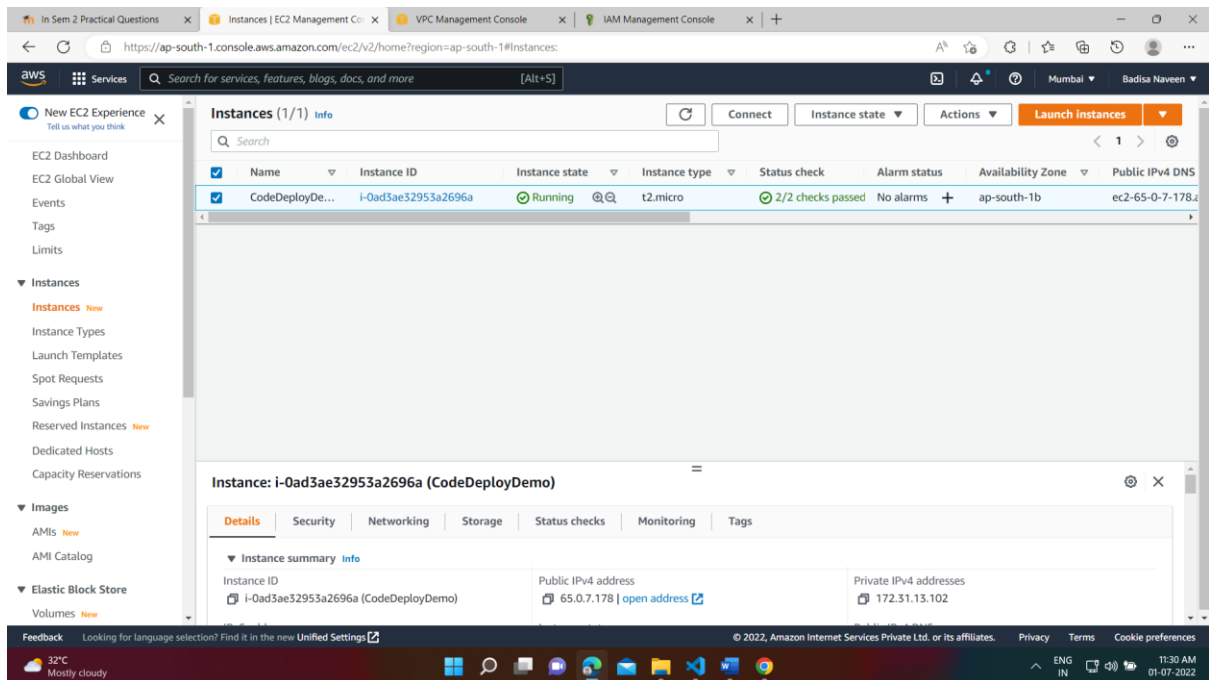
Step3: create a VPC



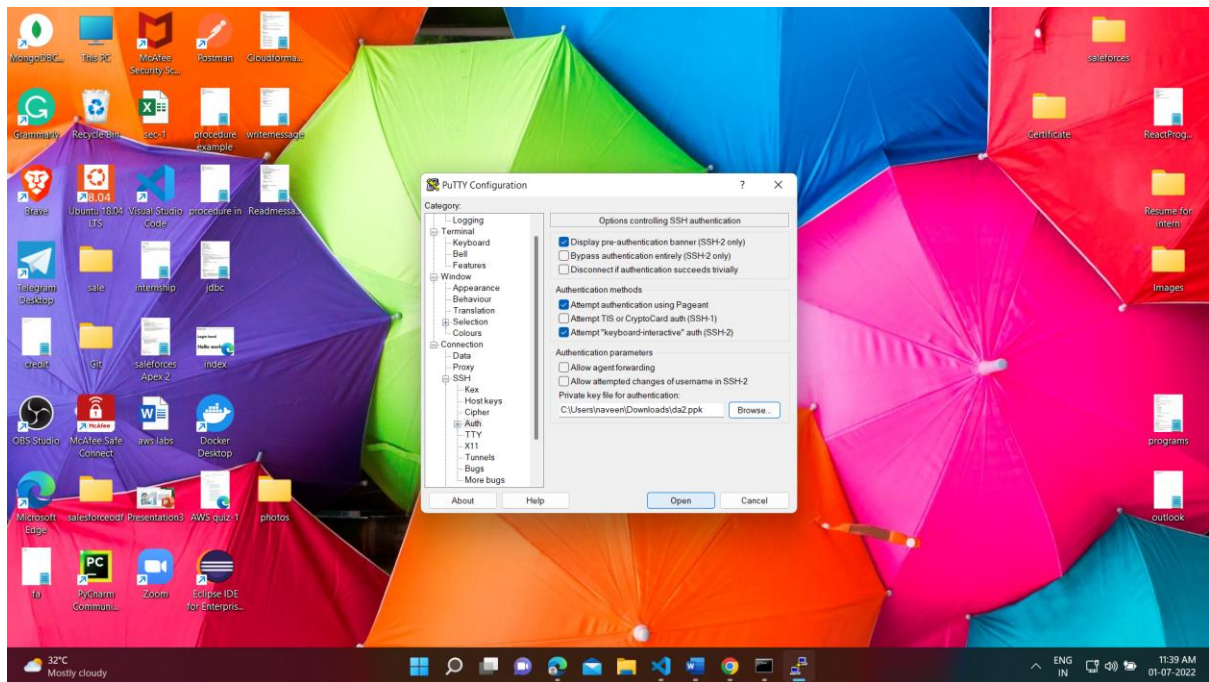
Step4: Create the IAM role with required permissions



Step5: Wait for 2/2 check pass



Step6: Connect to putty



Step7: install dependencies

```

ec2-user@ip-172-31-13-102-
(7/9): rubygem-rdoc-4.0.0-36.amzn2.0.2.noarch.rpm | 324 kB 00:00:00
(8/9): rubygem-json-1.7.7-36.amzn2.0.2.x86_64.rpm | 81 kB 00:00:00
(9/9): rubygems-2.0.14.1-36.amzn2.0.2.noarch.rpm | 216 kB 00:00:00
-----
Total | 621 kB 00:00:00
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
Installing : ruby-libs-2.0.0.648-36.amzn2.0.2.x86_64 1/9
Installing : rubygem-io-console-0.4.2-36.amzn2.0.2.x86_64 2/9
Installing : rubygem-json-1.7.7-36.amzn2.0.2.x86_64 3/9
Installing : ruby-irb-2.0.0.648-36.amzn2.0.2.noarch 4/9
Installing : ruby-2.0.0.648-36.amzn2.0.2.x86_64 5/9
Installing : rubygem-bigdecimal-1.2.0-36.amzn2.0.2.x86_64 6/9
Installing : rubygem-psych-2.0.0-36.amzn2.0.2.x86_64 7/9
Installing : rubygems-2.0.14.1-36.amzn2.0.2.noarch 8/9
Installing : rubygem-rdoc-4.0.0-36.amzn2.0.2.noarch 9/9
Verifying : rubygem-rdoc-4.0.0-36.amzn2.0.2.noarch 1/9
Verifying : ruby-2.0.0.648-36.amzn2.0.2.x86_64 2/9
Verifying : rubygem-io-console-0.4.2-36.amzn2.0.2.x86_64 3/9
Verifying : rubygem-json-1.7.7-36.amzn2.0.2.x86_64 4/9
Verifying : rubygems-2.0.14.1-36.amzn2.0.2.noarch 5/9
Verifying : rubygem-bigdecimal-1.2.0-36.amzn2.0.2.x86_64 6/9
Verifying : ruby-irb-2.0.0.648-36.amzn2.0.2.noarch 7/9
Verifying : rubygem-psych-2.0.0-36.amzn2.0.2.x86_64 8/9
Verifying : ruby-libs-2.0.0.648-36.amzn2.0.2.x86_64 9/9

Installed:
ruby.x86_64 0:2.0.0.648-36.amzn2.0.2

Dependency Installed:
ruby-irb.noarch 0:2.0.0.648-36.amzn2.0.2 ruby-libs.x86_64 0:2.0.0.648-36.amzn2.0.2 rubygem-bigdecimal.x86_64 0:1.2.0-36.amzn2.0.2 rubygem-io-console.x86_64 0:0.4.2-36.amzn2.0.2
rubygem-json.x86_64 0:1.7.7-36.amzn2.0.2 rubygem-psych.x86_64 0:2.0.0-36.amzn2.0.2 rubygem-rdoc.noarch 0:4.0.0-36.amzn2.0.2 rubygems.noarch 0:2.0.14.1-36.amzn2.0.2

Complete!
[ec2-user@ip-172-31-13-102 ~]$ wget https://aws-coddeploy-eu-west-1.s3.eu-west-1.amazonaws.com/latest/install
--2022-07-01 06:11:52-- https://aws-coddeploy-eu-west-1.s3.eu-west-1.amazonaws.com/latest/install
Resolving aws-coddeploy-eu-west-1.s3.eu-west-1.amazonaws.com (aws-coddeploy-eu-west-1.s3.eu-west-1.amazonaws.com)... 52.92.32.178
Connecting to aws-coddeploy-eu-west-1.s3.eu-west-1.amazonaws.com (aws-coddeploy-eu-west-1.s3.eu-west-1.amazonaws.com)|52.92.32.178|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 17482 (17K) []
Saving to: 'install'

100%[=====] 17,482 --K/s in 0s

2022-07-01 06:11:52 (143 MB/s) - 'install' saved [17482/17482]

[ec2-user@ip-172-31-13-102 ~]$

```

Step8: check codedeploy status is running

```
Complete!  
I, [2022-07-01T06:12:46.764706 #4333] INFO -- : Update check complete.  
I, [2022-07-01T06:12:46.764798 #4333] INFO -- : Stopping updater.  
[ec2-user@ip-172-31-13-102 ~]$ sudo service codedeploy-agent status  
The AWS CodeDeploy agent is running as PID 4417  
[ec2-user@ip-172-31-13-102 ~]$
```

32°C
Mostly cloudy



Step9: create a s3 bucket and enable the versioning using cli

2022-06-25 09:09:07 s35655exp4

2022-06-23 10:05:34 stack3-s3bucket-vuc07cqtxe1w

```
C:\Users\naveen>aws s3 mb s3://daexam2-aws-devops --region ap-south-1 --profile aws-devops
```

```
make_bucket: daexam2-aws-devops
```

```
C:\Users\naveen>aws s3api put-bucket-versioning --bucket daexam2-aws-devops --versioning-configuration Status=Enabled --region ap-south-1 --profile aws-devops
```

An error occurred (NoSuchBucket) when calling the PutBucketVersioning operation: The specified bucket does not exist

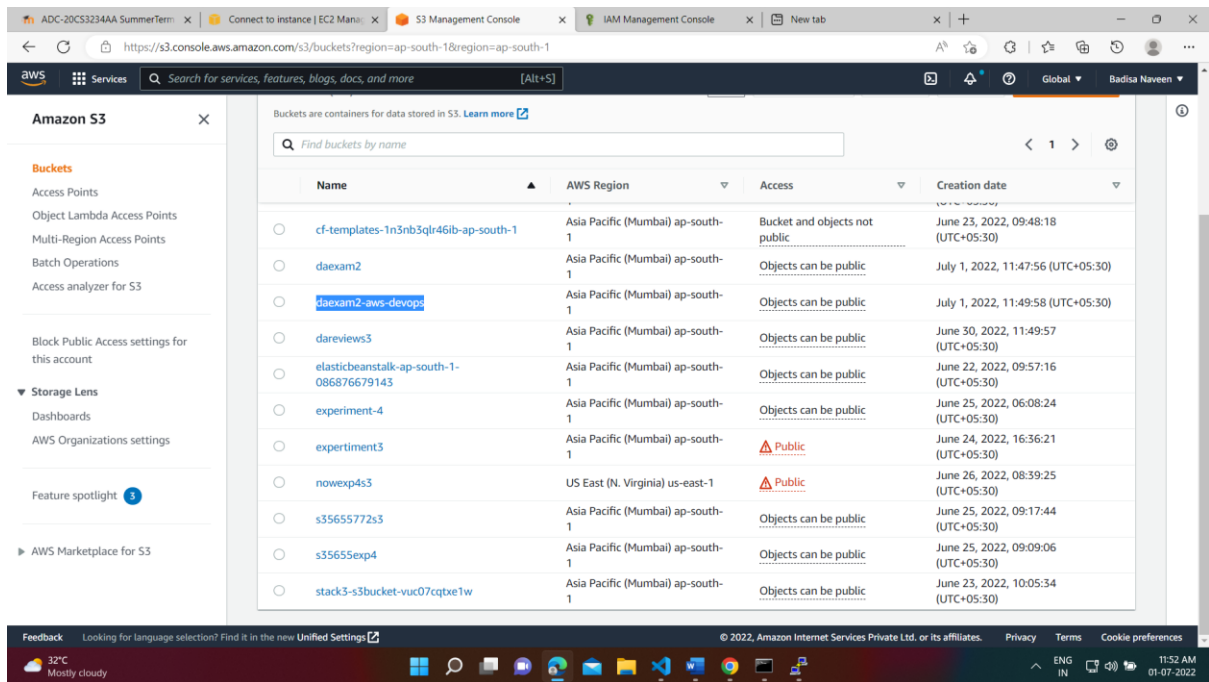
```
C:\Users\naveen>aws s3api put-bucket-versioning --bucket daexam2-aws-devops --versioning-configuration Status=Enabled --region ap-south-1 --profile aws-devops
```

```
C:\Users\naveen>
```

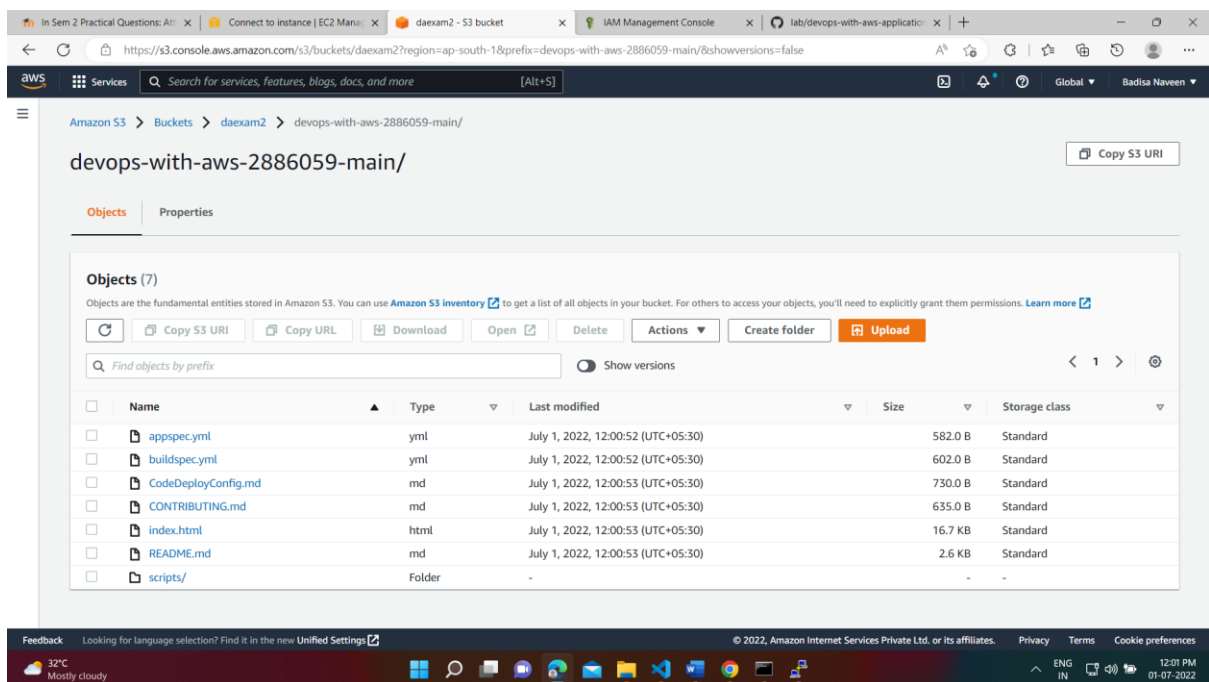
32°C



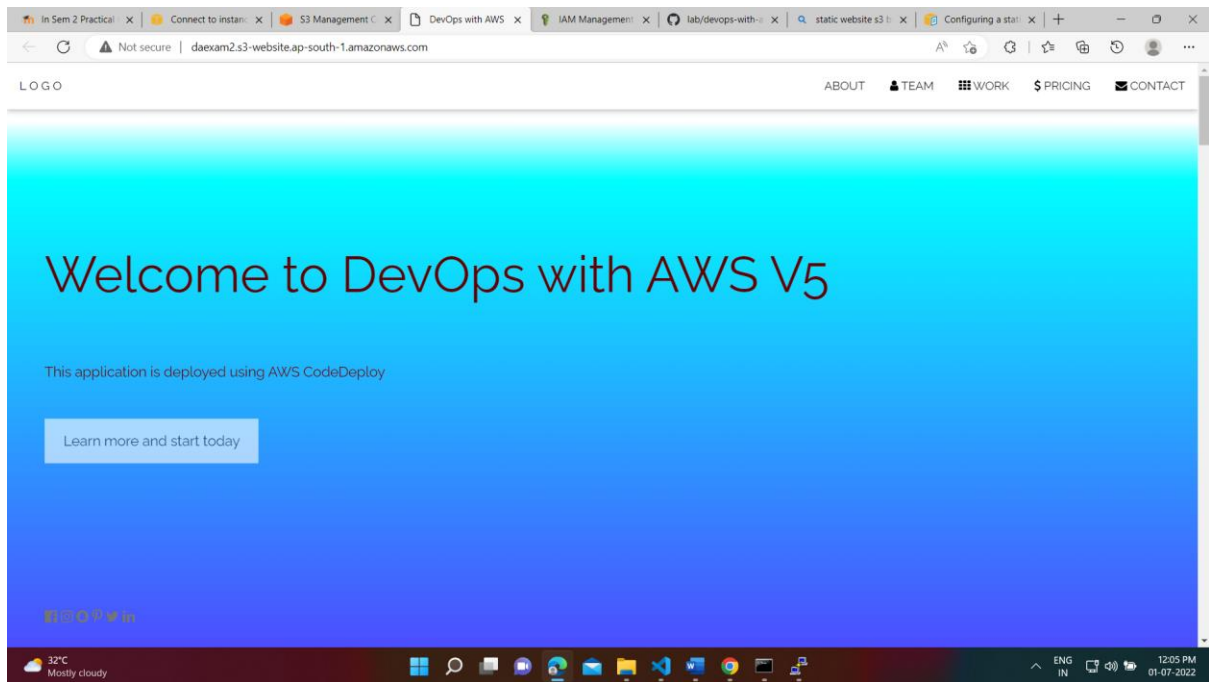
Step10: check bucket is created or not



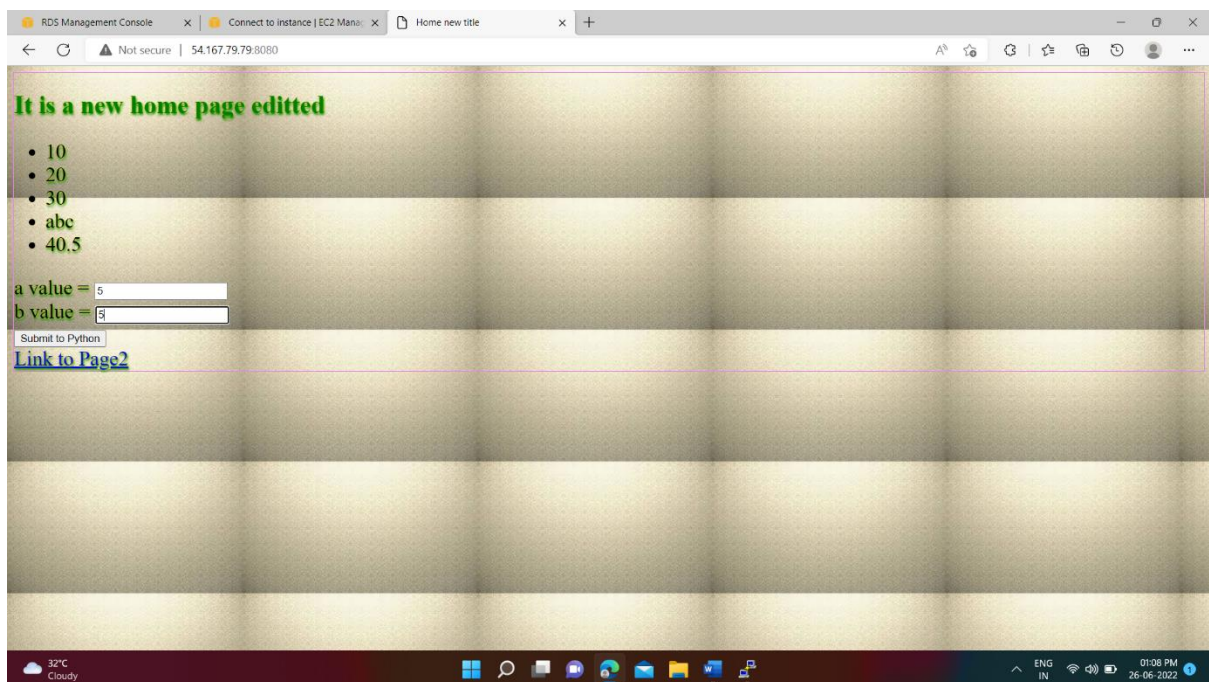
Step11: upload files to s3

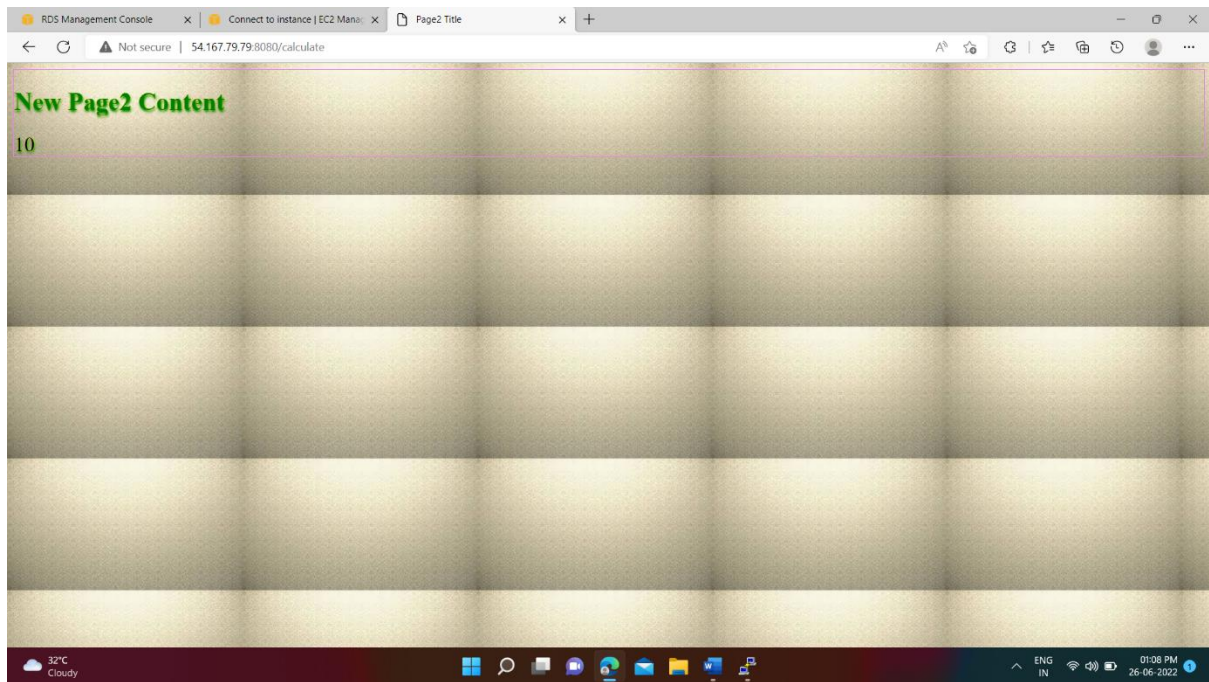


Step12: enable public access and see the url



Step13: Upload the files from s3 to ec2 and browser with ipv4(I took already launched exam)





Conclusion:

1. CodeDeploy can deploy application content that runs on a server and is stored in Amazon S3 buckets
2. I transfer files from s3 to ec2
3. Launch the application ec2 and browser with ipv4 address