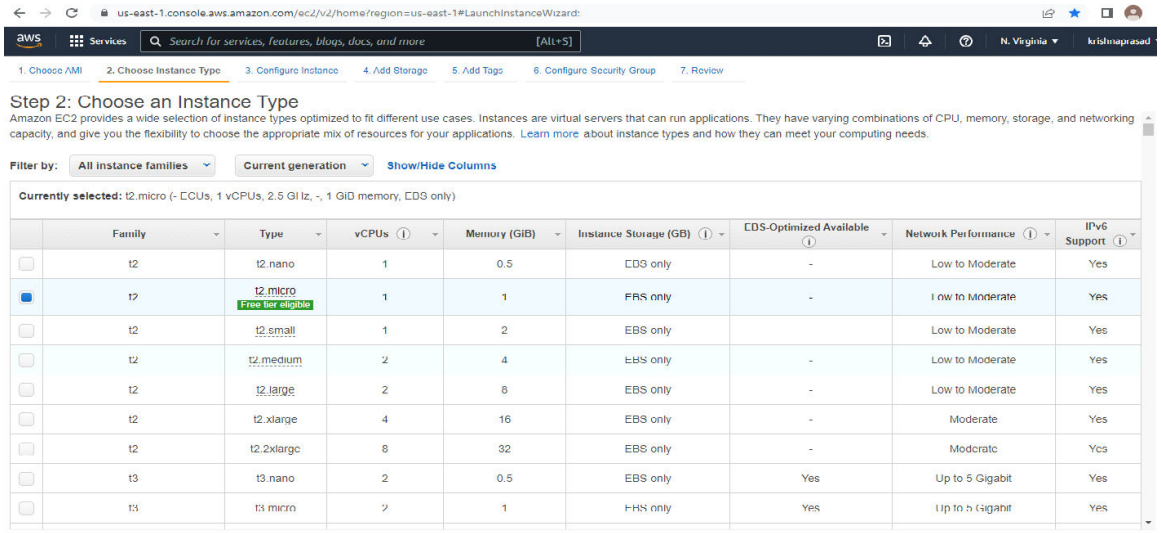
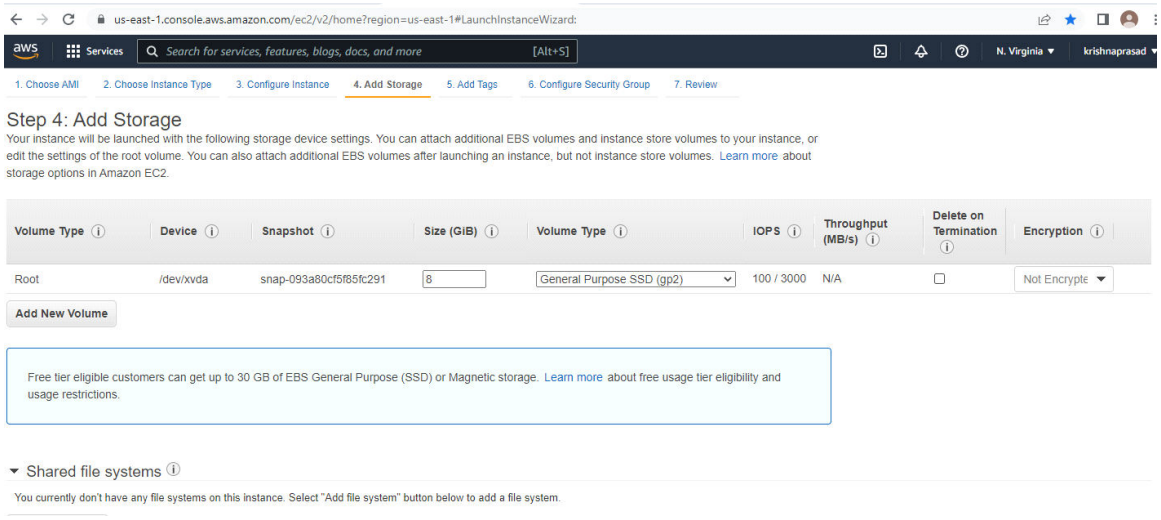
Volume- Attach And Detach

Volume: An Amazon EBS volume is a durable, block-level storage device that you can attach to your instances. After you attach a volume to an instance, you can use it as you would use a physical hard drive.

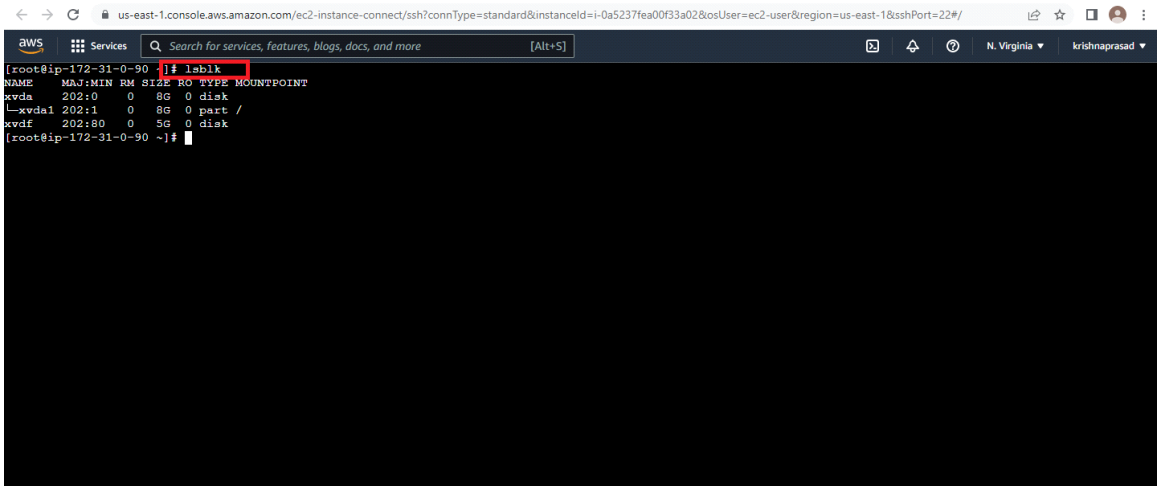
Step1: Launch an amazon Ec2 instance -> select t2micro as instance type as it is free-tier.

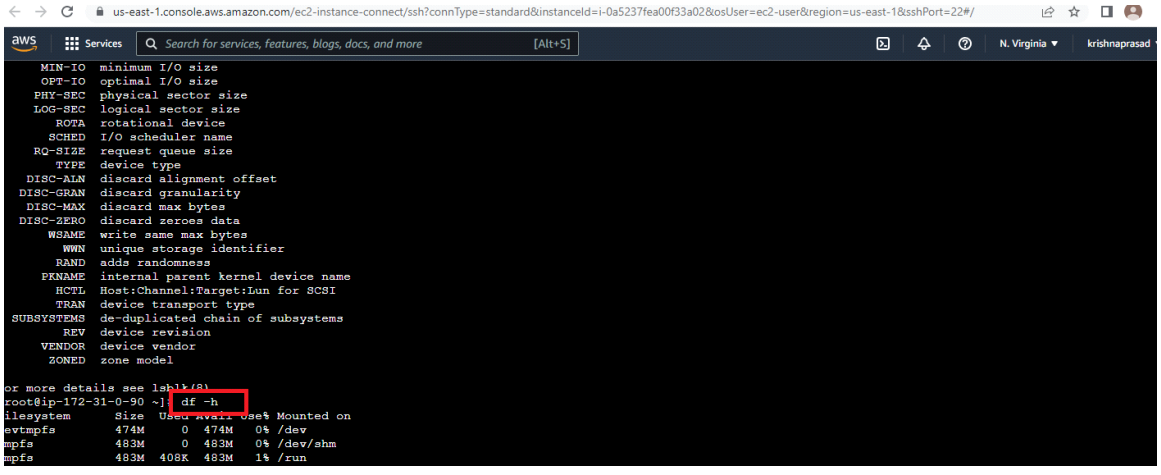


Step 2: Check the default volume of 8Gib and disable delete on termination.

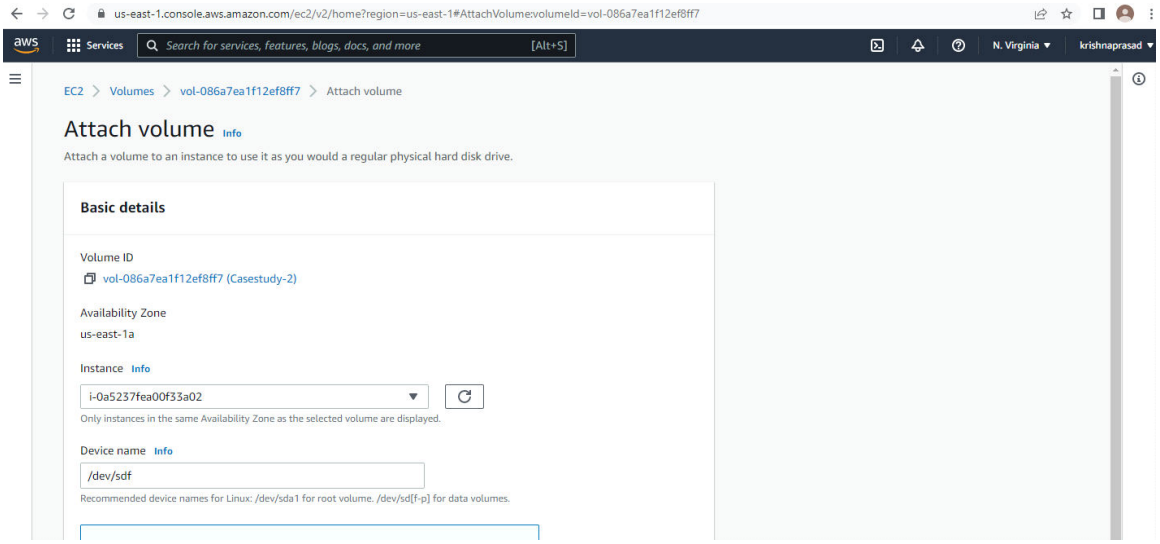


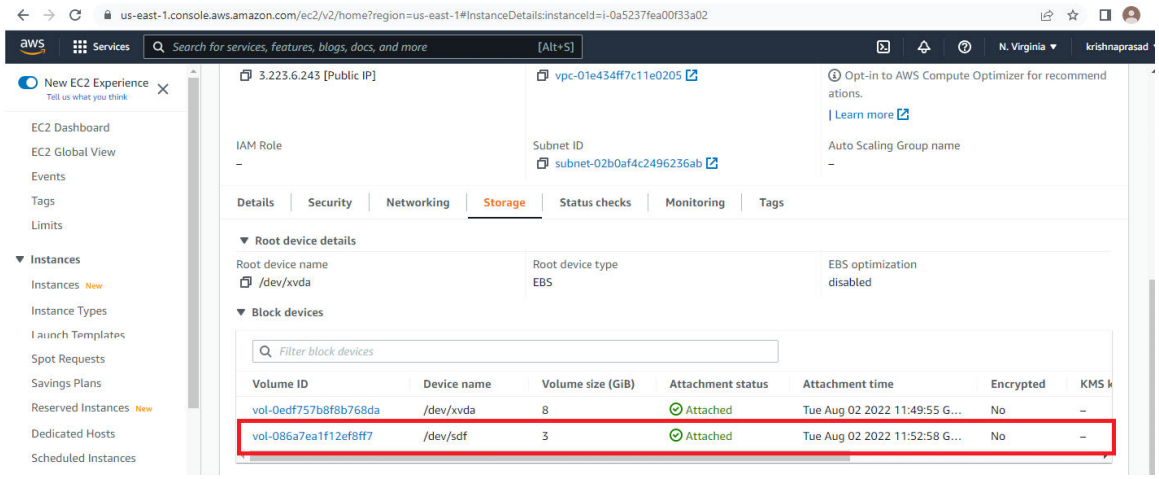
Step 3: Connect to the instance and check the volume by "lsblk" command and check disc free by "df-h" command.



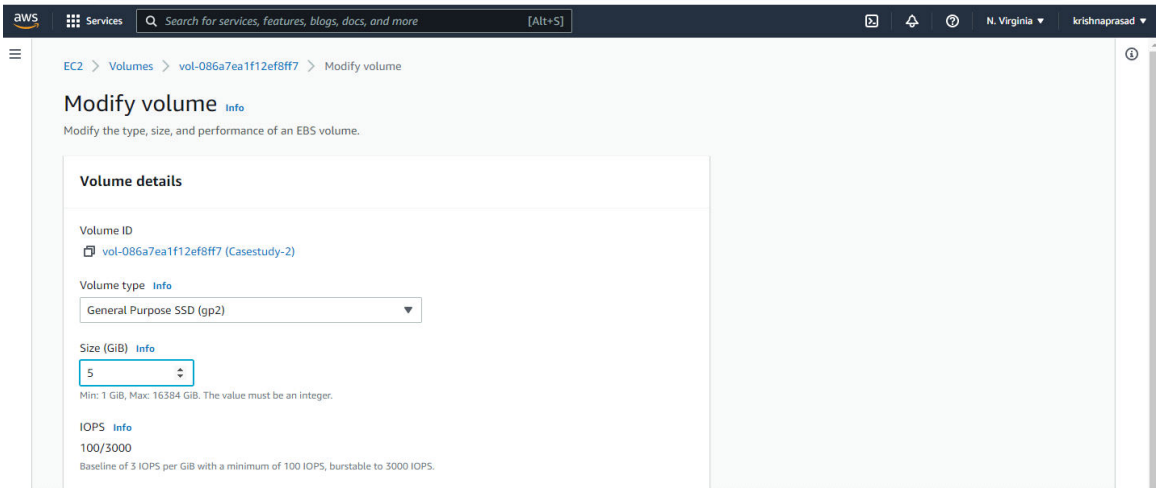


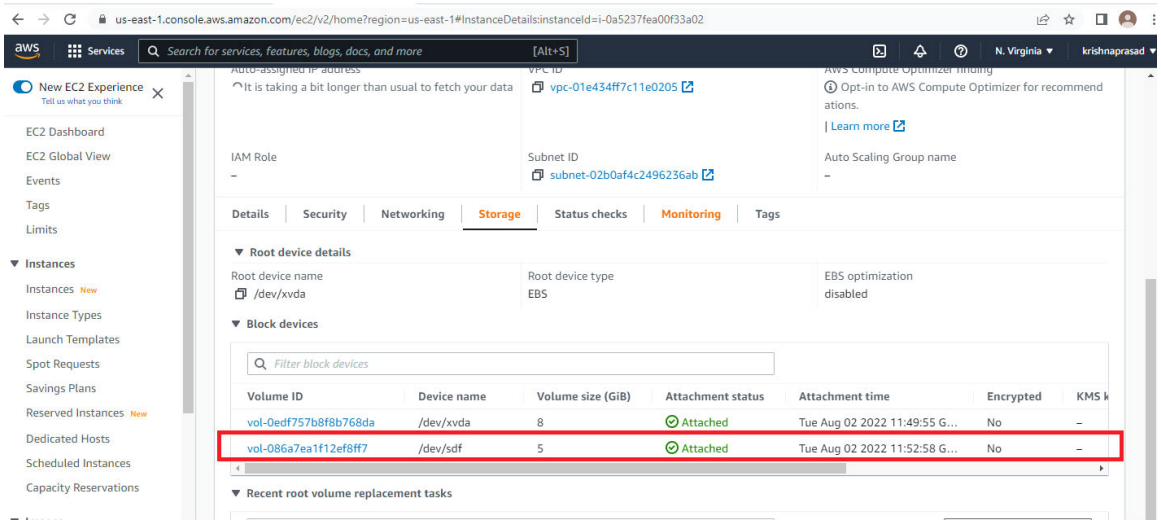
Step 4: Now create an exeternal volume of 3Gib and attach it to the instance.



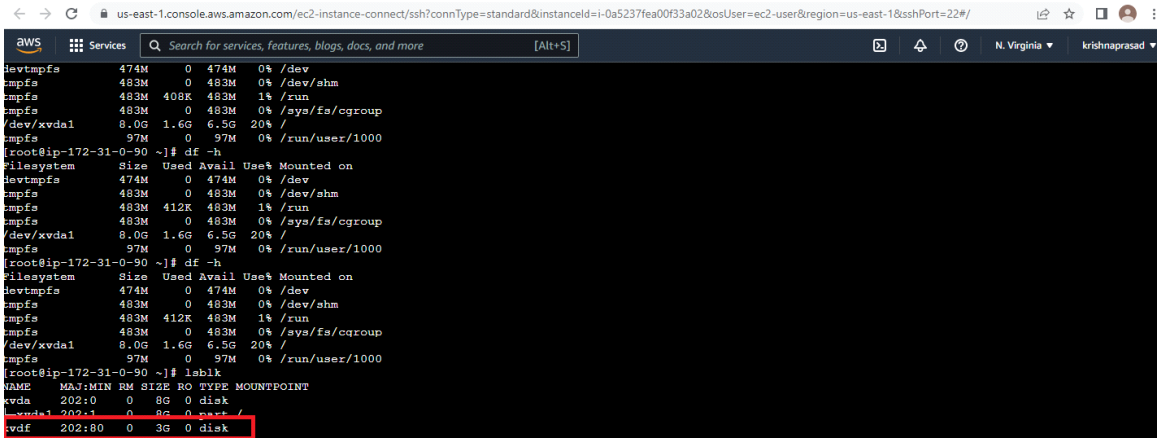


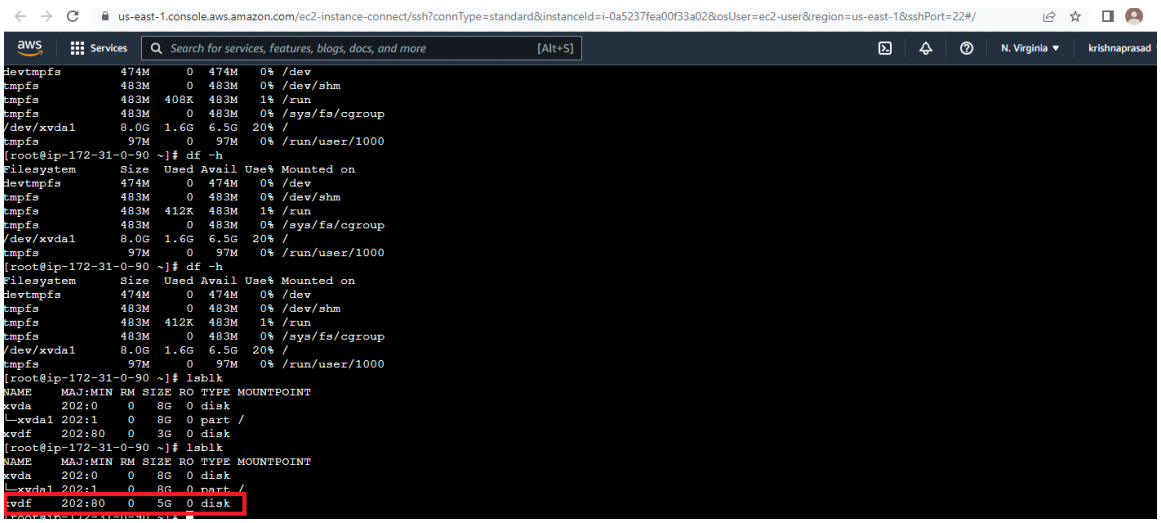
Step 5: Modify the volume to 5Gib and attach it to the instance.



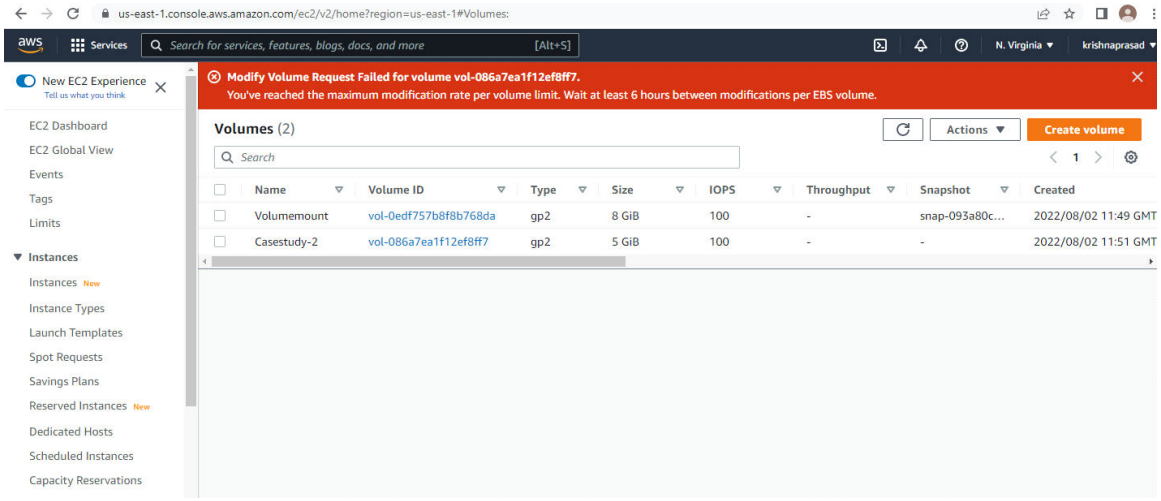


Step 6: Here you can observe the modifications done to the volume is as below.





Step 7: Modifications to the volume can be done only once after its creation and if we try it ask us to wait for six hours.



Cloud Formation:

Method of provisioning AWS infrastructure using code. It allows you to model a collection of related resources, both AWS and third party, to provision them quickly and consistently.

Procedure:

1. Launch an instance by YAML scripting.

2.Search cloud formation.

3.click on cloud formation.

4.Create stack.

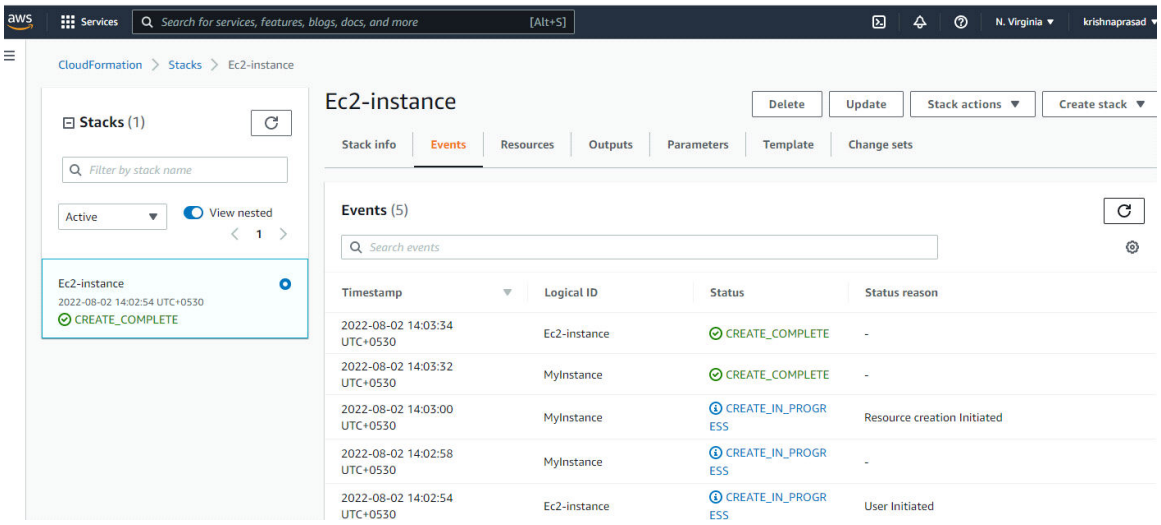
5.Click on template is ready -> upload a templatefile

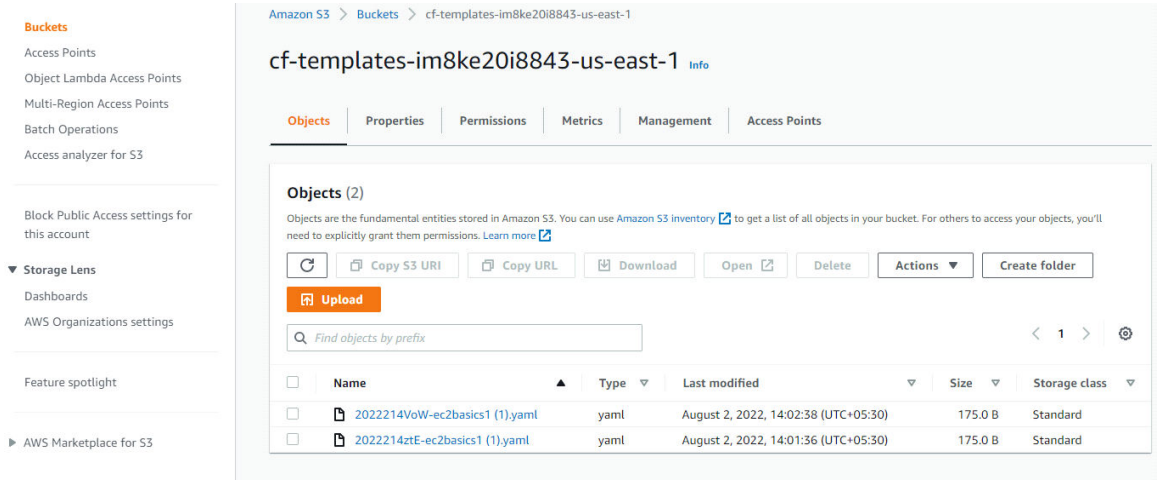
6.Then choose YAMLor JSON file from your local machine and go to next.

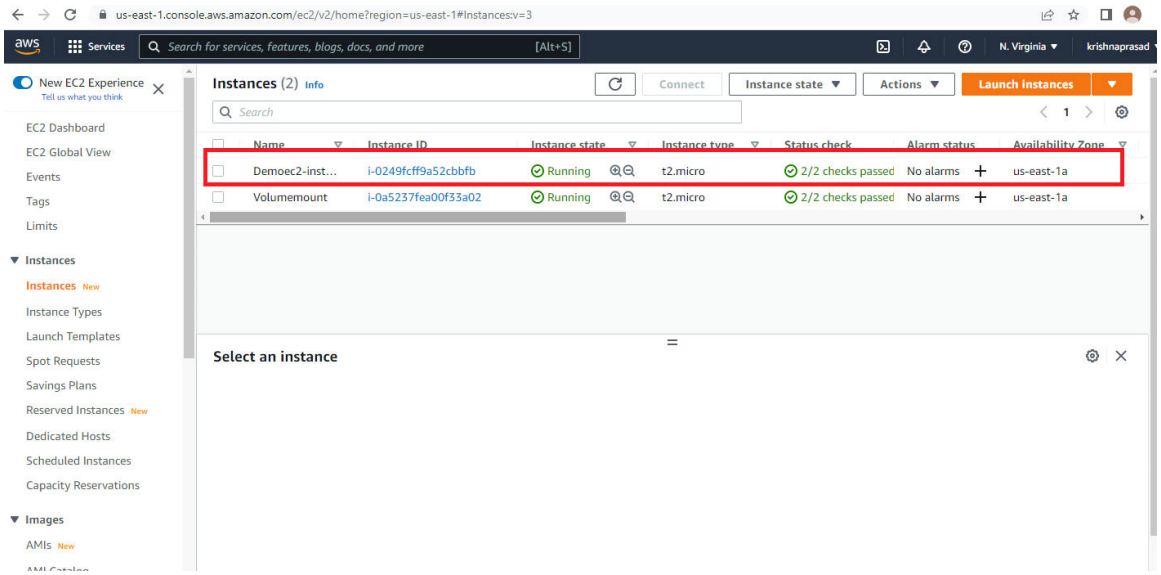
7.Write the stack name ->Click on next button->next button ->create stack.

8.Now go back and validate that ec2 instance will be launched with

yaml script.


CloudFormation > Stacks > Ec2-instance
Stacks (1)
Ec2-instance
Delete
Update
Stack actions
Create stack
Stack info
Events
Resources
Outputs
Parameters
Template
Change sets
Events (5)
Timestamp
Logical ID
Status
Status reason
2022-08-02 14:03:34 UTC+0530
Ec2-instance
CREATE_COMPLETE
2022-08-02 14:03:32 UTC+0530
MyInstance
CREATE_COMPLETE
2022-08-02 14:03:00 UTC+0530
MyInstance
CREATE_IN_PROGRESS
Resource creation Initiated
2022-08-02 14:02:58 UTC+0530
MyInstance
CREATE_IN_PROGRESS
2022-08-02 14:02:54 UTC+0530
Ec2-instance
CREATE_IN_PROGRESS
User Initiated


Amazon S3 > Buckets > cf-templates-im8ke20i8843-us-east-1
cf-templates-im8ke20i8843-us-east-1
Objects
Properties
Permissions
Metrics
Management
Access Points
Objects (2)
Upload
Actions
Create folder
Name
Type
Last modified
Size
Storage class
2022214VoW-ec2basics1 (1).yaml
yaml
August 2, 2022, 14:02:38 (UTC+05:30)
175.0 B
Standard
2022214ztE-ec2basics1 (1).yaml
yaml
August 2, 2022, 14:01:36 (UTC+05:30)
175.0 B
Standard


Instances (2)
Connect
Instance state
Actions
Launch instances
Demoec2-inst...
i-0249fcff9a52cbbfb
Running
t2.micro
2/2 checks passed
No alarms
us-east-1a
Volumemount
i-0a5237fea00f33a02
Running
t2.micro
2/2 checks passed
No alarms
us-east-1a
Select an instance

Conclusion: Attaching and detaching of volumes is successfully completed and it has some of the limitations along with launching an ec2 instance through YAML script.