CREATE AN EFS AND ATTACH IT TO MULTIPLE EC2 INSTANCES

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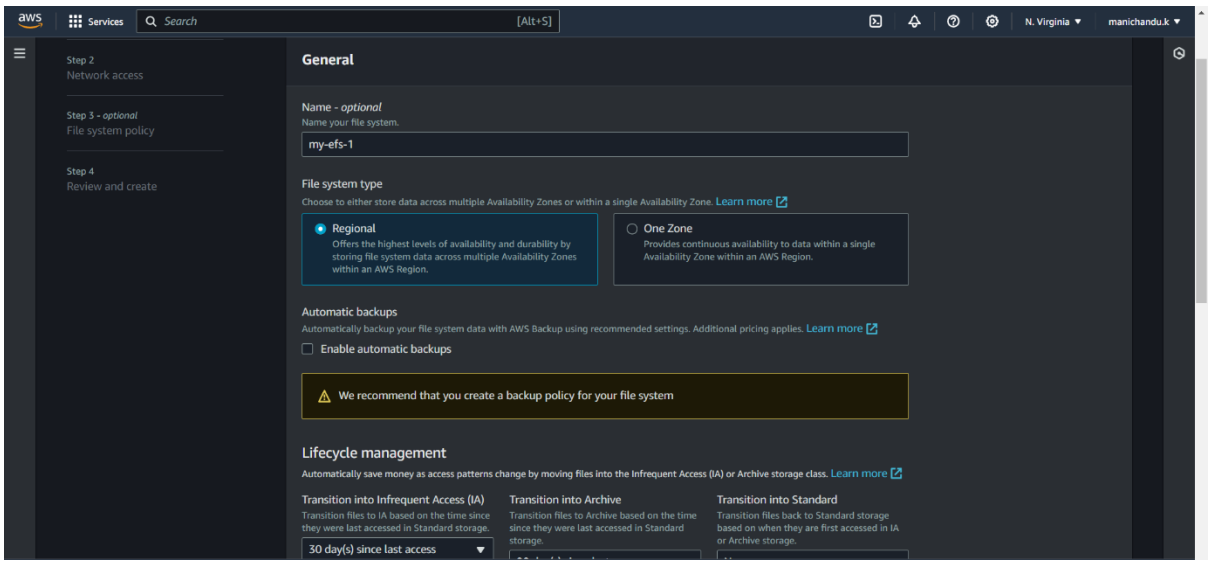
Elastic File System (EFS) :

- Amazon Elastic File System (Amazon EFS) provides serverless, fully elastic file storage so that you can share file data without provisioning or managing storage capacity and performance.
- Amazon EFS is built to scale on demand to petabytes without disrupting applications, growing and shrinking automatically as you add and remove files. Because Amazon EFS has a simple web services interface, you can create and configure file systems quickly and easily.
- The service manages all the file storage infrastructure for you, meaning that you can avoid the complexity of deploying, patching, and maintaining complex file system configurations.

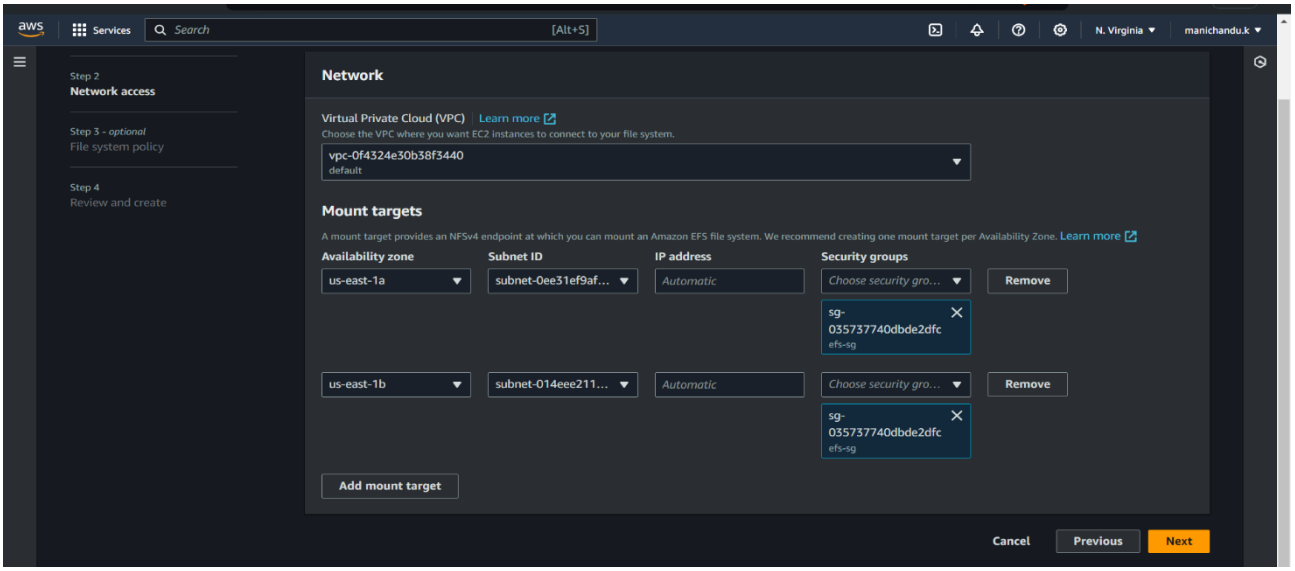
Creating an EFS :

- To create an EFS first we should create a Security group with our protocols.
- After creating the security group go to EFS and select on customise when creating the EFS.

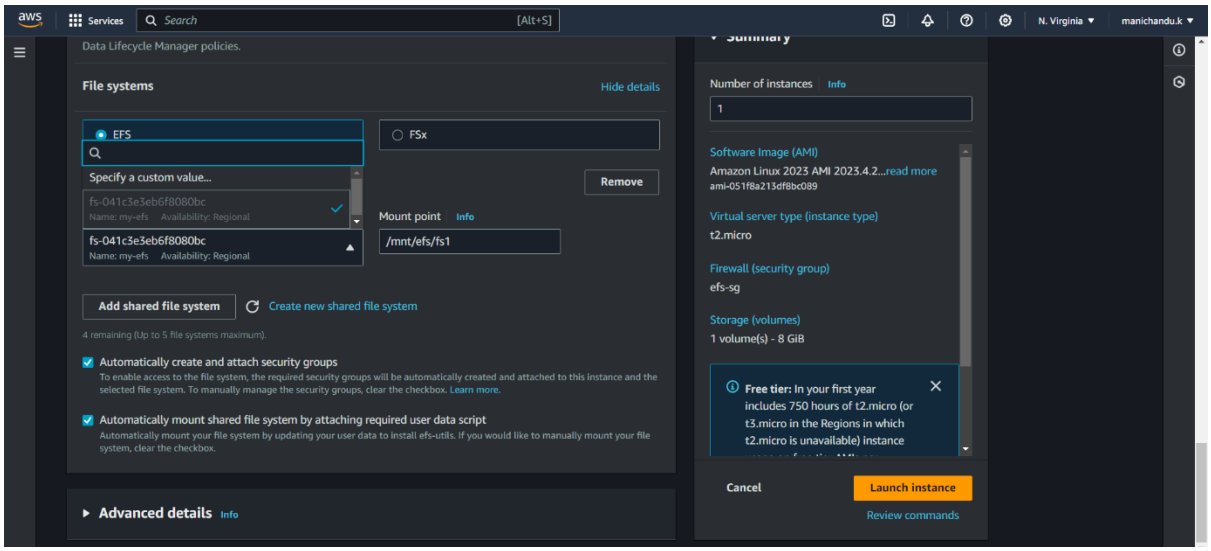


- Select regional option to connect to instances in other regions also.
- You can configure the life cycle management to reduce the cost of EFS.
- Now upon clicking next you will gon to step 2 – Network access where you can select in which VPC you would create the EFS and in which region will it be available

- Select the security group for these zones which we created before.



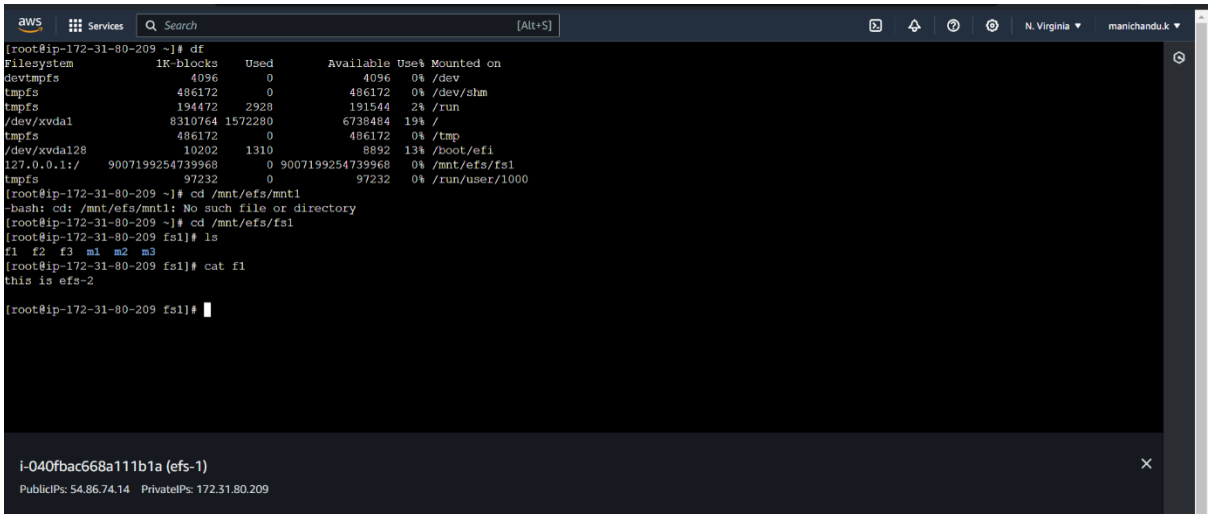
- Click on next and go to review and create the EFS.
- After creating the EFS go to EC2 instances and launch an instance in a zone where we have given EFS.



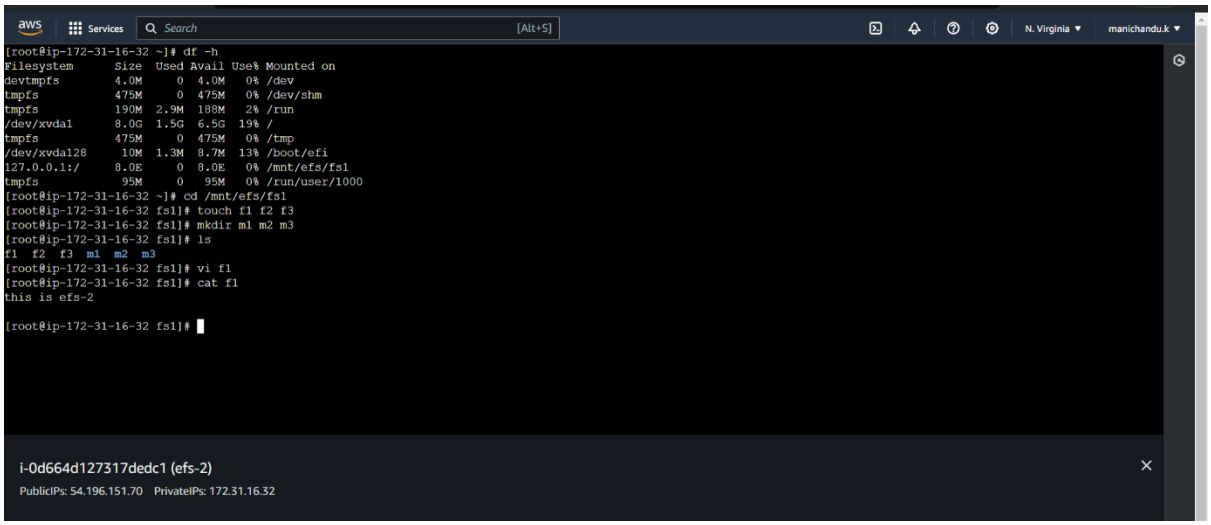
- While launching the EC2 instance give the security group which we created first and click on configure storage.
- Now click on file systems and click on add shared file system and select our file system. Now launch the instance.
- Now repeat the process with another instance in another zone which we gave access to EFS.
- Now connect to both instances and and give the disk command

df -h

- You will see an filesystem named 127.0.0.0/…. mounted on /mnt.efs/fs1 which we gave earlier in instance configuration.



- Now cd to the mount path of EFS and create files and directories in that directory.
- Now connect to another instance and cd to the same path and list the files and directories.
- You can access the files and even the data in files in the other instance from here.



- Your EFS is successfully created and attached to two different instances in two different zones.