**ELASTIC FILE SYSTEM(EFS)**

* By using this service, we can attach single volume to multiple EC2 instance at the same time across multiple AZ’s (*i.e same REGION*)
* EFS is unlimited storage
* EFS will launch only LINUX machine and completely managed by AWS
* EFS is serverless for us
* EFS works with NFSv4 Protocol
* EFS is ***FILEBASE*** storage
* EFS is file sharing purpose, we can install any software but not recommended
* EFS doesn’t require any pre-provisioning (i.e it will automatically increase and shrink based on the data you put on EFS)
* Same EFS can be mounted(attached) multiple EC2 instance

Example: Pen drive, separate(device) mount point

* File share concept will use NFS protocol
* We can create a file system, mount the file system on an Amazon EC2 instance, and then read and write to and from file system

ap-south-1a ap-south-1b ap-south-1c

EC2

EC2

EC2

root

root

root

**EFS(Elastic File System)**

**Benefits**

* AWS Managed
* High Throughput
* Scalable / HA
* Durable 🡪 Data can stored across multiples AZ
* Concurrent Access
* Shared across multiple EC2 instances
* Low-Cost Storage, Infrequent Access via API's
* Low latency
* SSD Based

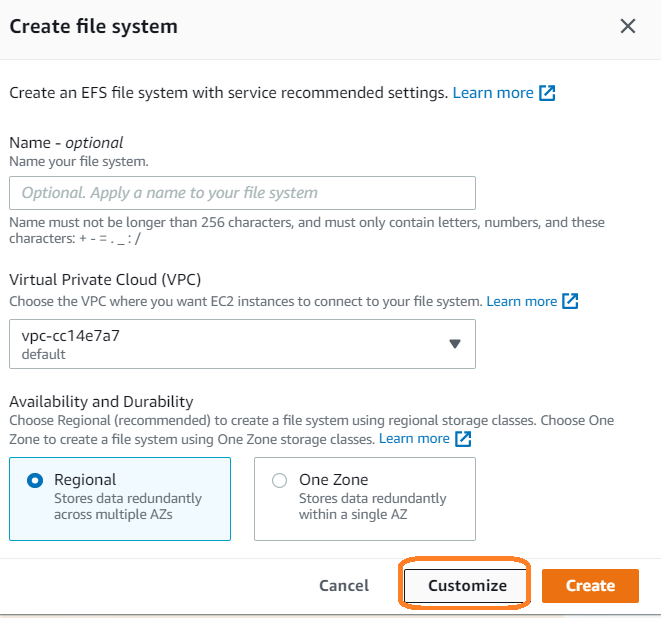
1.Create 2-EC2 instance

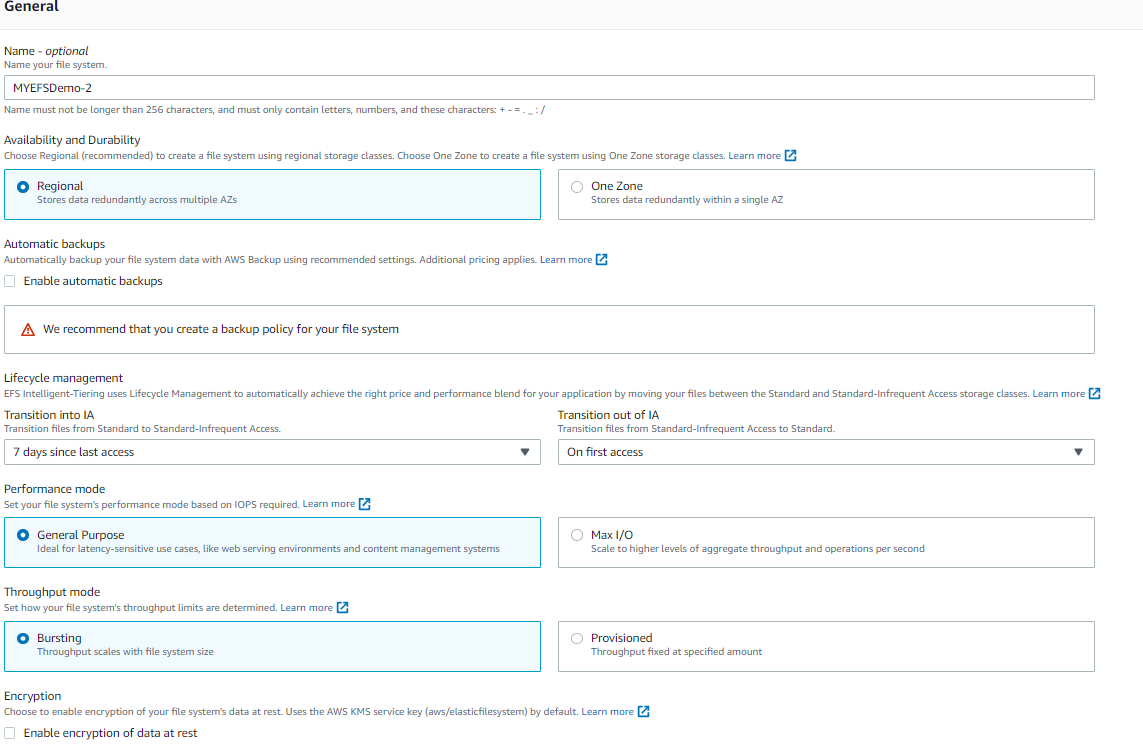
While launching EC2 instance we have option to attach/Create EFS under **Configure Instance section**

File systems 🡪 **Add file system (OR) Create new file system**

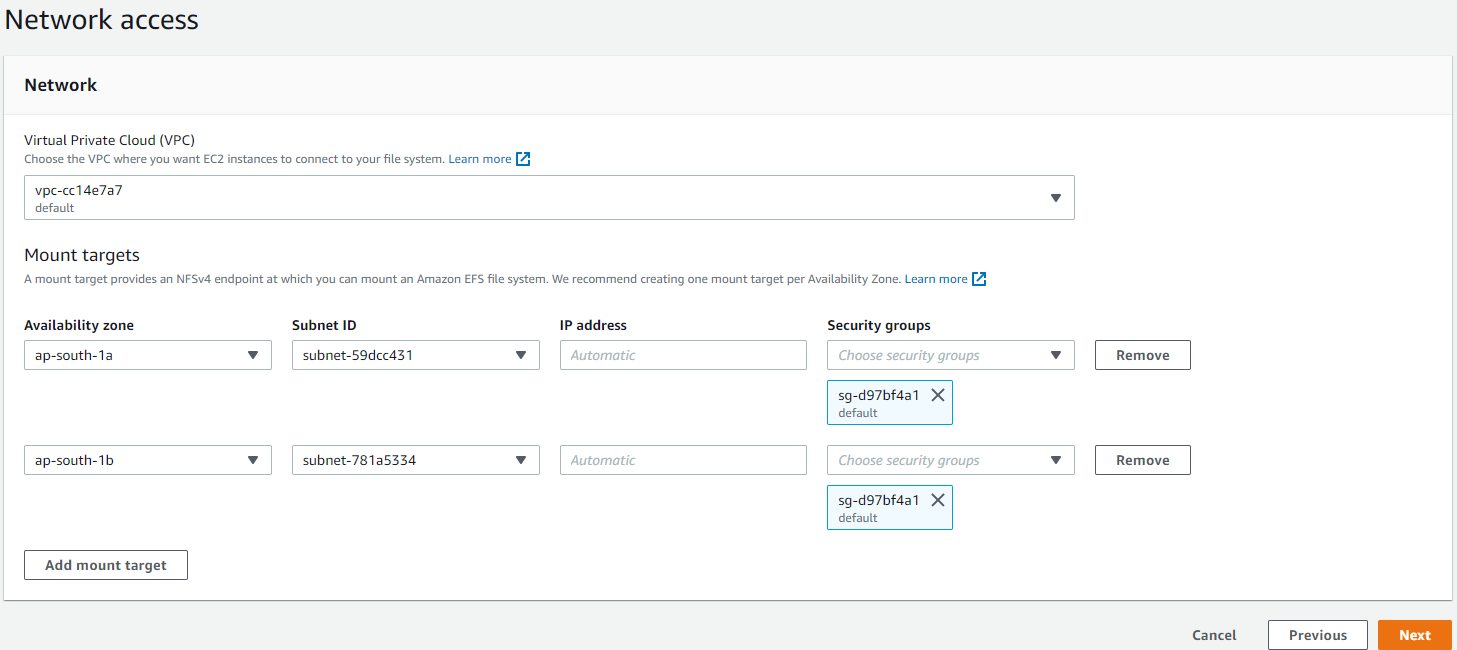
2.Create EFS

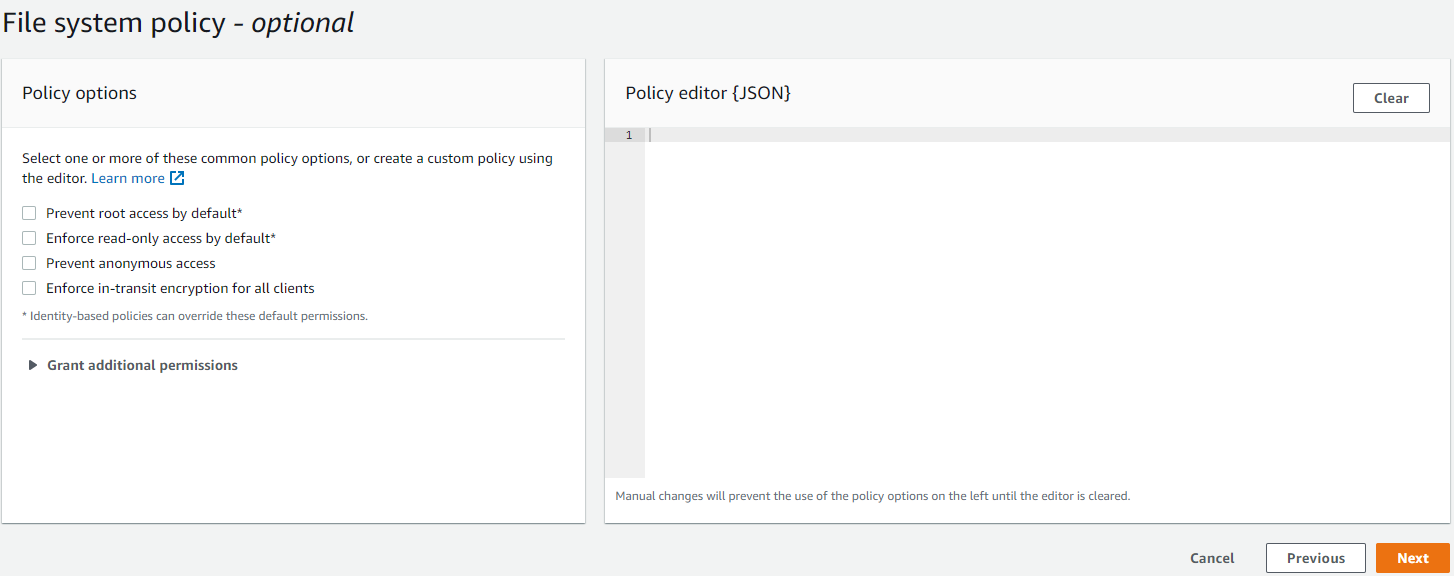
**Services 🡪 Storage 🡪 EFS**

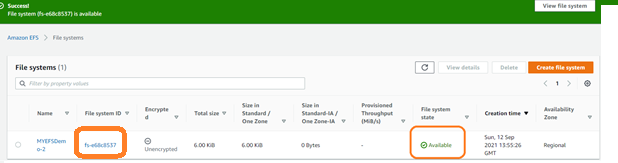
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**Select specific region and security group details**

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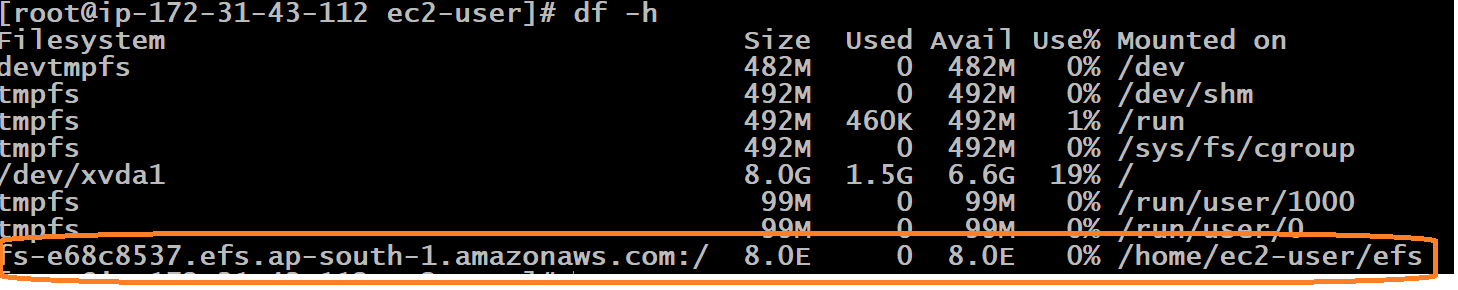
**3. Login into EC2 instance**

Fallow below steps to attach EFS

* cd ..
* yum install -y nfs-utils
* mkdir efs
* mount -t <<File System id>>.efs.ap-south-1.amazonaws.com:/ <<folder-name>>/

mount -t nfs4 fs-e68c8537.efs.ap-south-1.amazonaws.com:/ efs/

* df -h

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**Un-mount use below command**

* umount -l /home/ec2-user/efs 🡪 normal
* umout -f /home/ec2-user/efs 🡪 forcefully

Delete EFS system & and Terminate EC2 instance

