Experiment No 4

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Cloud Computing
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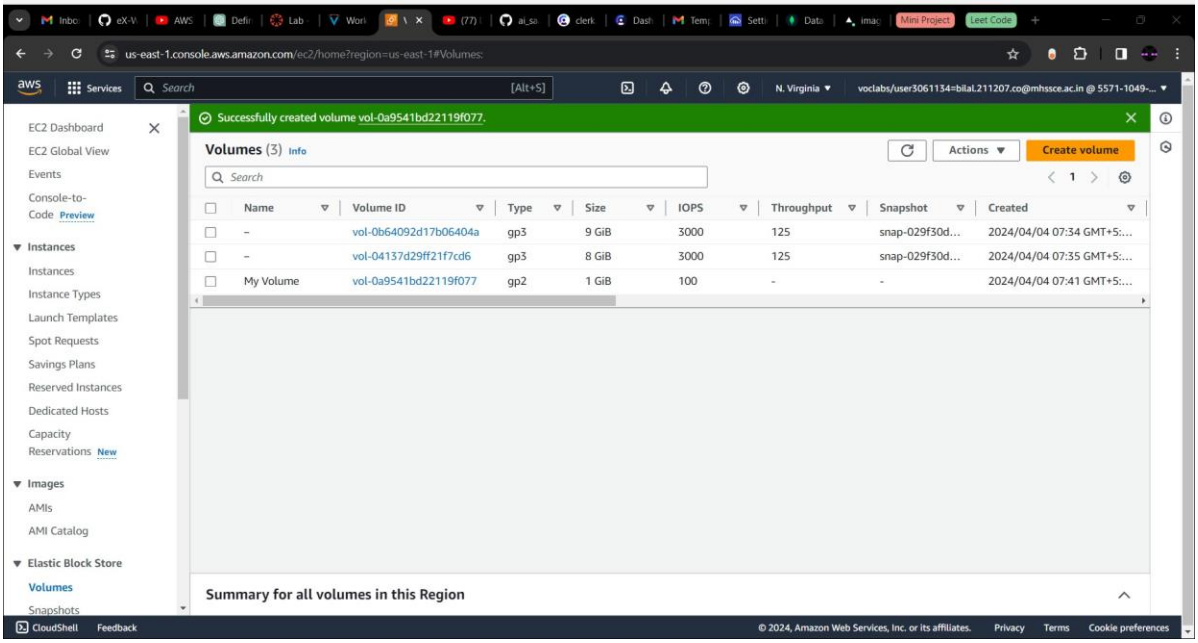
Aim: To study and Implement Storage as a Service using AWS S3, Glaciers/ Azure Storage.

Theory:

To delve into studying and implementing Storage as a Service (STaaS) via AWS S3, Glacier, or Azure Storage requires a comprehensive grasp of their respective functionalities and advantages. Amazon S3 stands out as a cornerstone of cloud storage solutions, offering unparalleled scalability and durability for storing a vast array of data types. With features like versioning, encryption, and flexible storage classes, S3 caters to diverse needs, from serving as a repository for website assets to housing critical backups. Glacier, as an extension of S3, specializes in long-term archival with cost-efficient storage options, ensuring data retention compliance and facilitating seamless retrieval through its tiered storage model. Meanwhile, Azure Storage provides a robust ecosystem encompassing Blob, Queue, and File storage services, empowering businesses with scalable and resilient storage solutions tailored to their specific requirements.

By embarking on the journey of studying and implementing STaaS using AWS S3, Glacier, or Azure Storage, organizations unlock a realm of possibilities in managing their data assets effectively in the cloud. Through meticulous examination and hands-on experience with features like data lifecycle management, cross-region replication, and integration with other cloud services, businesses can optimize their storage strategies to align with scalability, reliability, and cost-effectiveness. Moreover, harnessing the power of these cloud storage platforms facilitates seamless collaboration, data sharing, and disaster recovery, enabling organizations to stay agile and competitive in today's dynamic digital landscape.

OUPUT:


us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Volumes:
Successfully created volume vol-0a9541bd22119f077.
Volumes (3) Info
Actions
Create volume
Name
Volume ID
Type
Size
IOPS
Throughput
Snapshot
Created
– vol-0b64092d17b06404a gp3 9 GiB 3000 125 snap-029f30d... 2024/04/04 07:34 GMT+5:...
– vol-04137d29ff21f7cd6 gp3 8 GiB 3000 125 snap-029f30d... 2024/04/04 07:35 GMT+5:...
My Volume vol-0a9541bd22119f077 gp2 1 GiB 100 - - 2024/04/04 07:41 GMT+5:...
Summary for all volumes in this Region
EC2 Dashboard
EC2 Global View
Events
Console-to-Code Preview
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations New
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Snapshots
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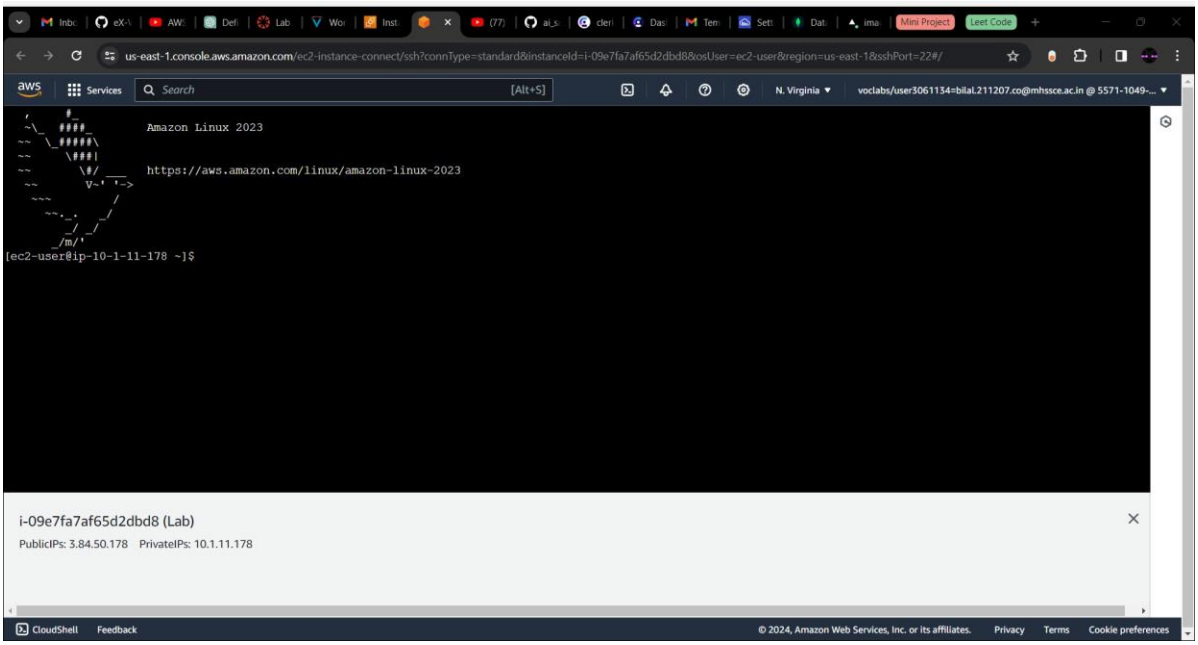
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Amazon Linux 2023
https://aws.amazon.com/linux/amazon-linux-2023
[ec2-user@ip-10-1-11-178 ~]$
i-09e7fa7af65d2dbd8 (Lab)
PublicIPs: 3.84.50.178 PrivateIPs: 10.1.11.178
CloudShell
Feedback
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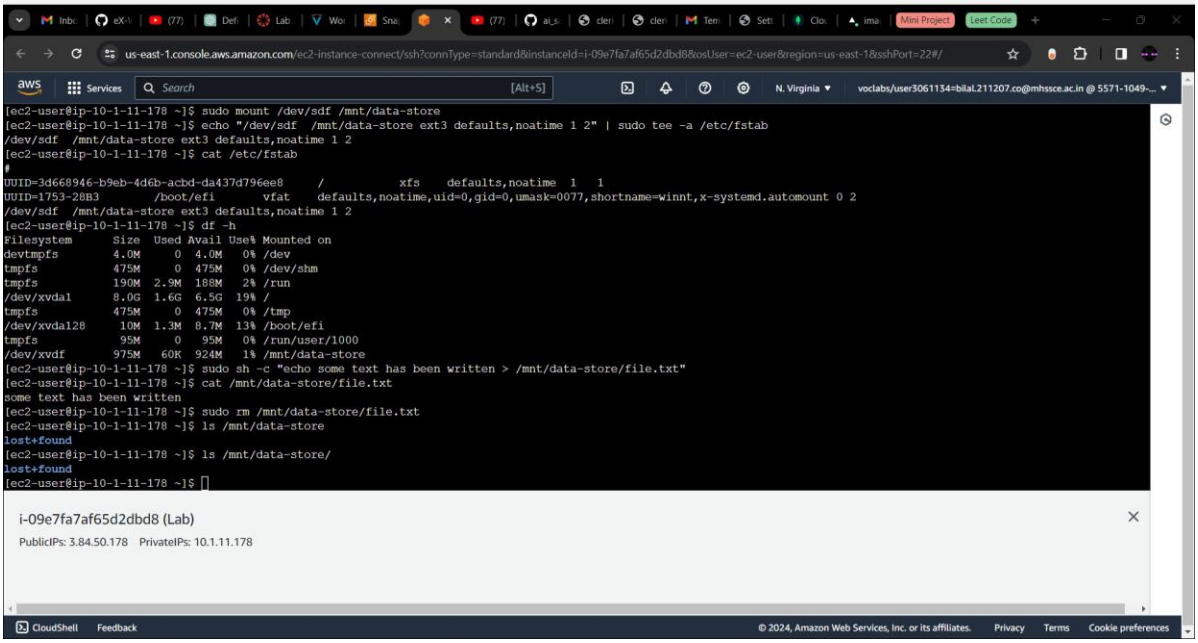

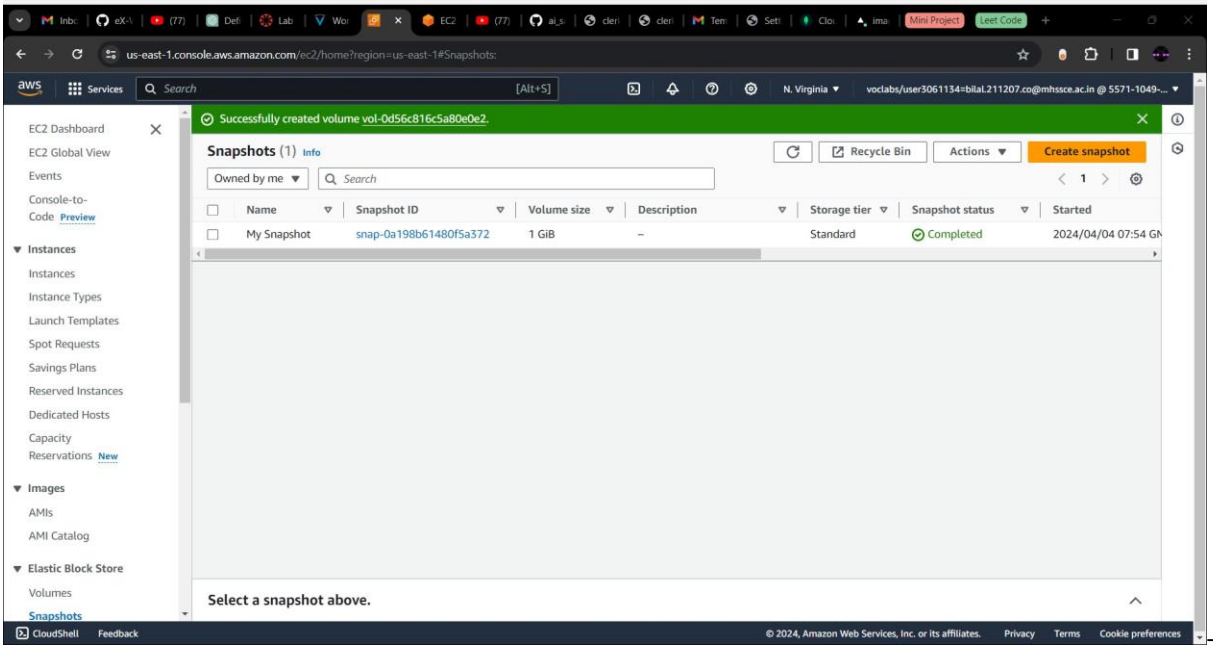

Conclusion: We have successfully implemented S3.