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Lab – 2 , AWS , 21 sept 2021

1. Describe SaaS

Software as a service (SaaS) allows users to connect to and use cloud-based apps over the Internet. Common examples are email, calendaring and office tools.

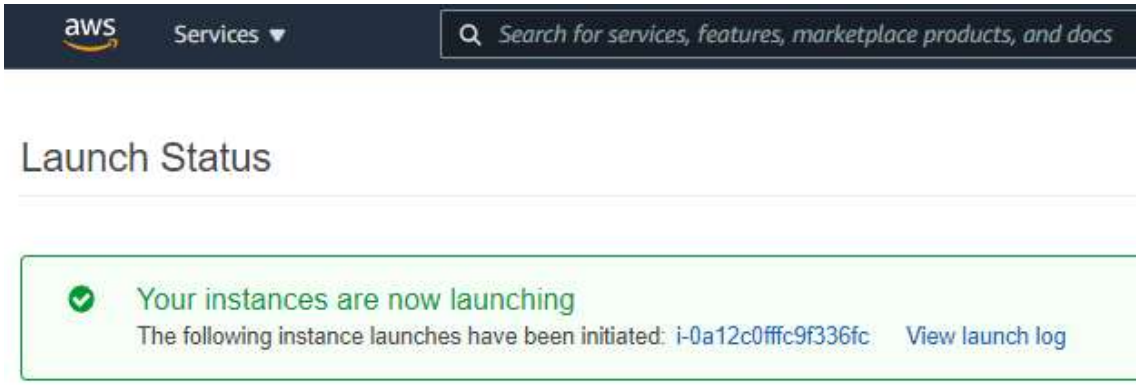
SaaS provides a complete software solution which you purchase on a pay-as-you-go basis from a cloud service provider. You rent the use of an app for your organisation and your users connect to it over the Internet, usually with a web browser. All of the underlying infrastructure, middleware, app software and app data are located in the service provider's data center. The service provider manages the hardware and software and with the appropriate service agreement, will ensure the availability and the security of the app and your data as well. SaaS allows your organisation to get quickly up and running with an app at minimal upfront cost.

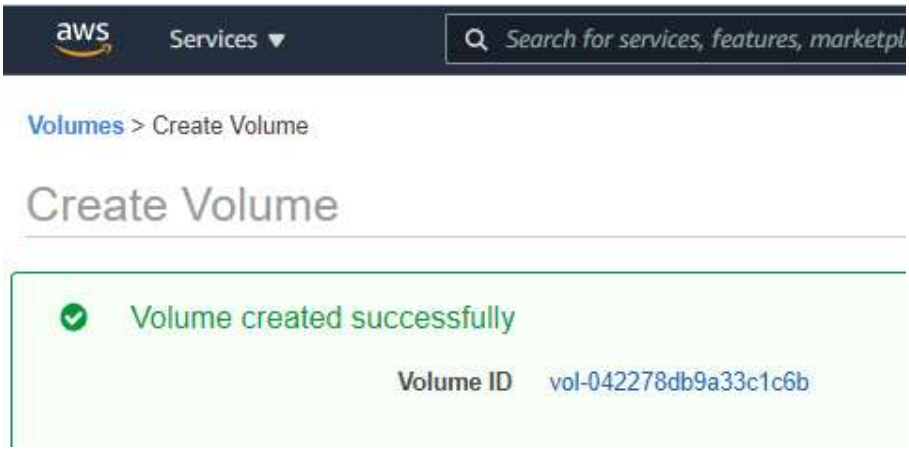
2. List the Different Storage Services available in AWS.

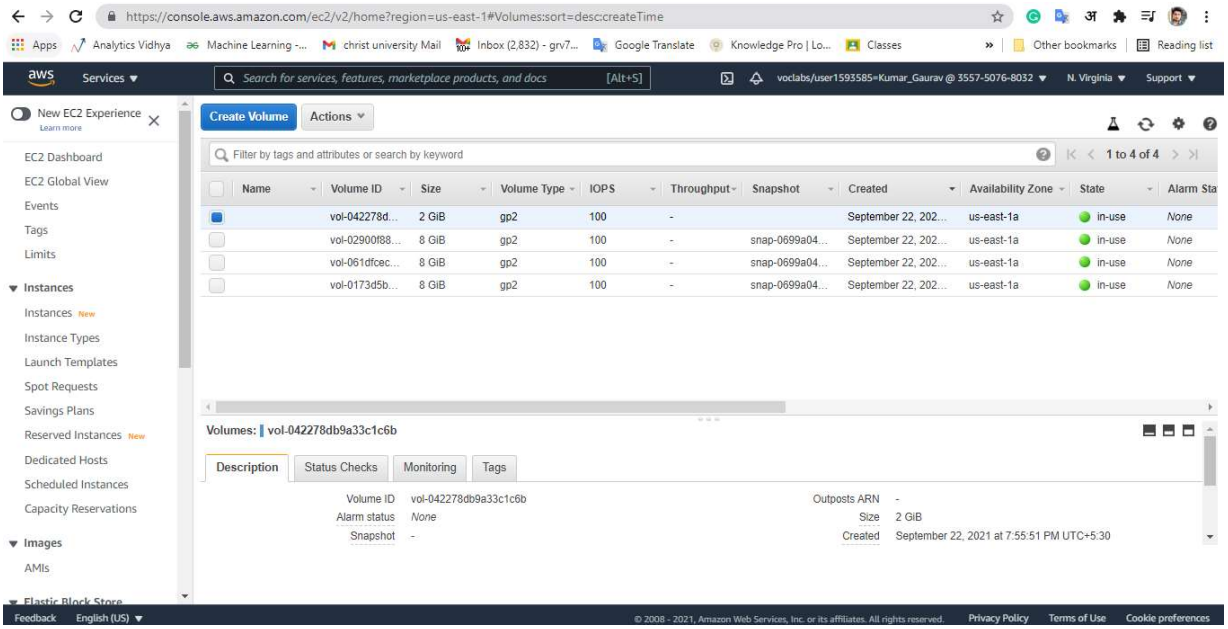
1. **Amazon Simple Storage Service (Amazon S3)**
2. Amazon Glacier
3. Amazon Elastic File System (Amazon EFS)
4. Amazon Elastic Block Store (Amazon EBS)
5. Amazon EC2 Instance Storage
6. AWS Storage Gateway
7. AWS Snowball
8. Amazon CloudFront

3. Create a New EBS Volume and attach it to an EC2 and attach a file to the new

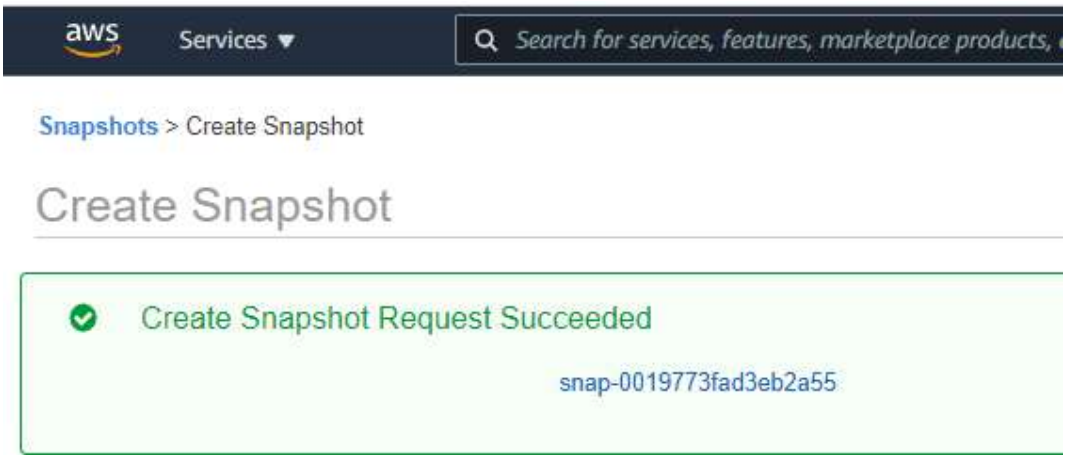
volume.

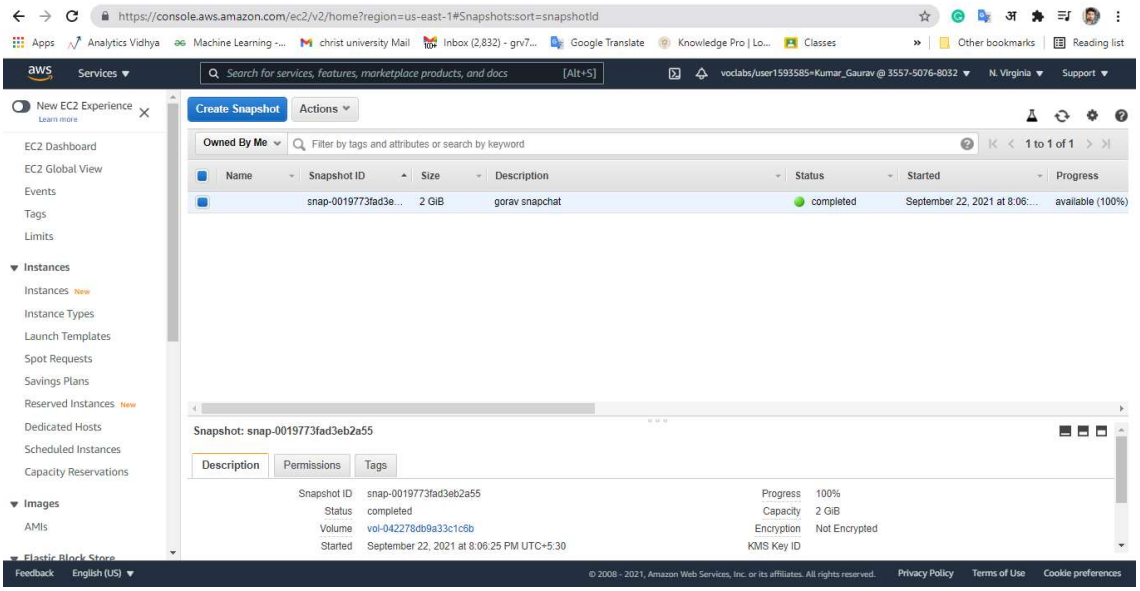

aws
Services
Search for services, features, marketplace products, and docs
Launch Status
Your instances are now launching
The following instance launches have been initiated: i-0a12c0fffc9f336fc
View launch log

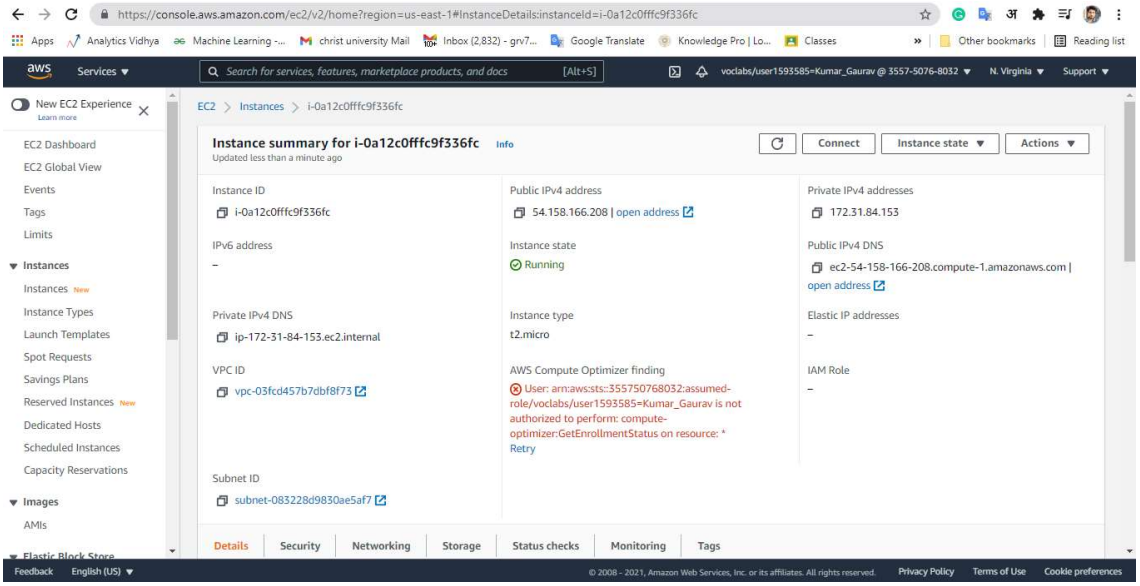

aws
Services
Search for services, features, marketpl
Volumes > Create Volume
Create Volume
Volume created successfully
Volume ID
vol-042278db9a33c1c6b


https://console.aws.amazon.com/ec2/v2/home?region=us-east-1#Volumes:sort=desc:createTime
Create Volume
Actions
EC2 Dashboard
EC2 Global View
Events
Tags
Limits
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Scheduled Instances
Capacity Reservations
Images
AMIs
Volumes: vol-042278db9a33c1c6b
Description
Status Checks
Monitoring
Tags
Volume ID vol-042278db9a33c1c6b
Alarm status None
Snapshot -
Outposts ARN -
Size 2 GiB
Created September 22, 2021 at 7:55:51 PM UTC+5:30

4. Demonstrate the backup creation using snapshot to ensure that when the file is deleted it can be retrieved back (Connect to the LINUX instance using your desktop)






https://console.aws.amazon.com/ec2/v2/home?region=us-east-1#InstanceDetails:instanceId=i-0a12c0fffc9f336fc
Apps
Analytics Vidhya
Machine Learning -...
christ university Mail
Inbox (2,832) - grv7...
Google Translate
Knowledge Pro | Lo...
Classes
Other bookmarks
Reading list
aws
Services
Search for services, features, marketplace products, and docs [Alt+S]
voclabs/user1593585=Kumar_Gaurav @ 3557-5076-8032
N. Virginia
Support
New EC2 Experience
Learn more
EC2 Dashboard
EC2 Global View
Events
Tags
Limits
Instances
Instances New
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances New
Dedicated Hosts
Scheduled Instances
Capacity Reservations
Images
AMIs
Elastic Block Store
EC2 > Instances > i-0a12c0fffc9f336fc
Instance summary for i-0a12c0fffc9f336fc Info
Updated less than a minute ago
Connect
Instance state
Actions
Instance ID
i-0a12c0fffc9f336fc
Public IPv4 address
54.158.166.208 | open address
Private IPv4 addresses
172.31.84.153
IPv6 address
-
Instance state
Running
Public IPv4 DNS
ec2-54-158-166-208.compute-1.amazonaws.com | open address
Private IPv4 DNS
ip-172-31-84-153.ec2.internal
Instance type
t2.micro
Elastic IP addresses
-
VPC ID
vpc-03fcd457b7dbf8f73
AWS Compute Optimizer finding
User: arn:aws:sts::355750768032:assumed-role/voclabs/user1593585=Kumar_Gaurav is not authorized to perform: compute-optimizer:GetEnrollmentStatus on resource: *
Retry
IAM Role
-
Subnet ID
subnet-083228d9830ae5af7
Details
Security
Networking
Storage
Status checks
Monitoring
Tags
Feedback
English (US)
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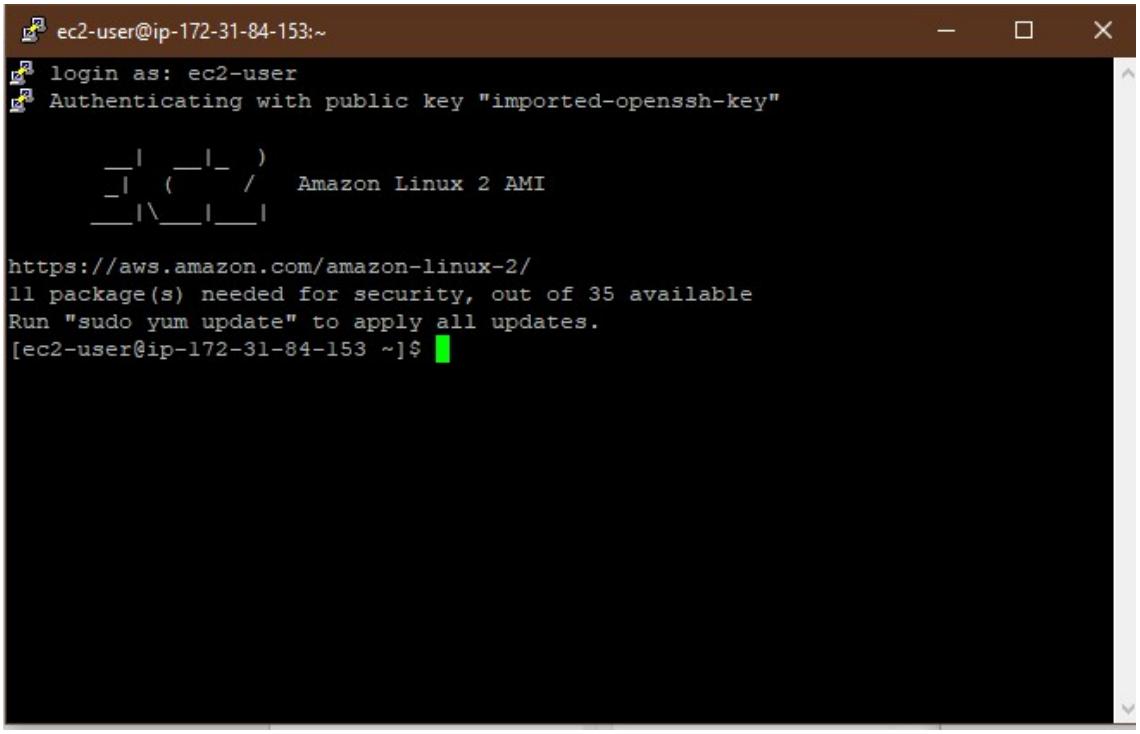
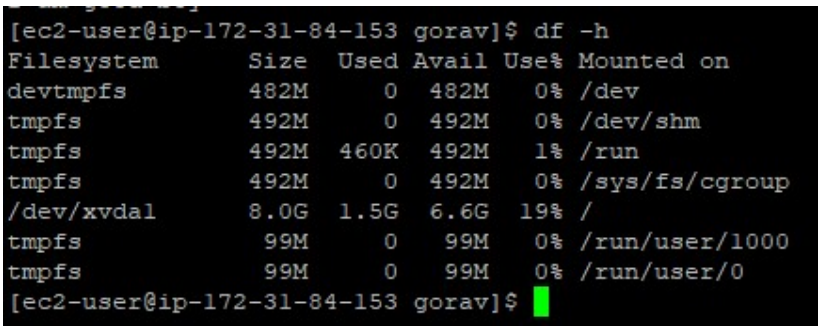
Terms of Use
Cookie preferences


ec2-user@ip-172-31-84-153:~
login as: ec2-user
Authenticating with public key "imported-openssh-key"
__| __|_)
_| (/   Amazon Linux 2 AMI
___|___|___|
https://aws.amazon.com/amazon-linux-2/
11 package(s) needed for security, out of 35 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-84-153 ~]$


[ec2-user@ip-172-31-84-153 gorav]$ df -h
Filesystem   Size Used Avail Use% Mounted on
devtmpfs   482M   0 482M   0% /dev
tmpfs   492M   0 492M   0% /dev/shm
tmpfs   492M 460K 492M   1% /run
tmpfs   492M   0 492M   0% /sys/fs/cgroup
/dev/xvda1   8.0G 1.5G 6.6G 19% /
tmpfs   99M   0   99M   0% /run/user/1000
tmpfs   99M   0   99M   0% /run/user/0
[ec2-user@ip-172-31-84-153 gorav]$

```
[ec2-user@ip-172-31-84-153 home]$ ls
ec2-user
[ec2-user@ip-172-31-84-153 home]$ cd ec2-user/
[ec2-user@ip-172-31-84-153 ~]$ mkdir gorav
[ec2-user@ip-172-31-84-153 ~]$ ls
gorav
```

```
[ec2-user@ip-172-31-84-153 ~]$ cd gorav/
[ec2-user@ip-172-31-84-153 gorav]$ nano gaurav.txt
[ec2-user@ip-172-31-84-153 gorav]$ cat gaurav.txt
I am good boy
[ec2-user@ip-172-31-84-153 gorav]$ df -h
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        482M     0  482M   0% /dev
tmpfs           492M     0  492M   0% /dev/shm
tmpfs           492M  460K  492M   1% /run
tmpfs           492M     0  492M   0% /sys/fs/cgroup
/dev/xvda1      8.0G  1.5G  6.6G  19% /
tmpfs            99M     0   99M   0% /run/user/1000
tmpfs            99M     0   99M   0% /run/user/0
[ec2-user@ip-172-31-84-153 gorav]$ sudo mkfs -t ext3/dev/sdf

Usage:
 mkfs [options] [-t <type>] [fs-options] <device> [<size>]

Make a Linux filesystem.

Options:
 -t, --type=<type>  filesystem type; when unspecified, ext2 is used
     fs-options     parameters for the real filesystem builder
     <device>       path to the device to be used
     <size>         number of blocks to be used on the device
 -V, --verbose      explain what is being done;
                      specifying -V more than once will cause a dry-run
 -V, --version      display version information and exit;
                      -V as --version must be the only option
 -h, --help         display this help text and exit

For more details see mkfs(8).
[ec2-user@ip-172-31-84-153 gorav]$ ls
gaurav.txt
[ec2-user@ip-172-31-84-153 gorav]$ sudo mkdir /mnt/data-store2
```