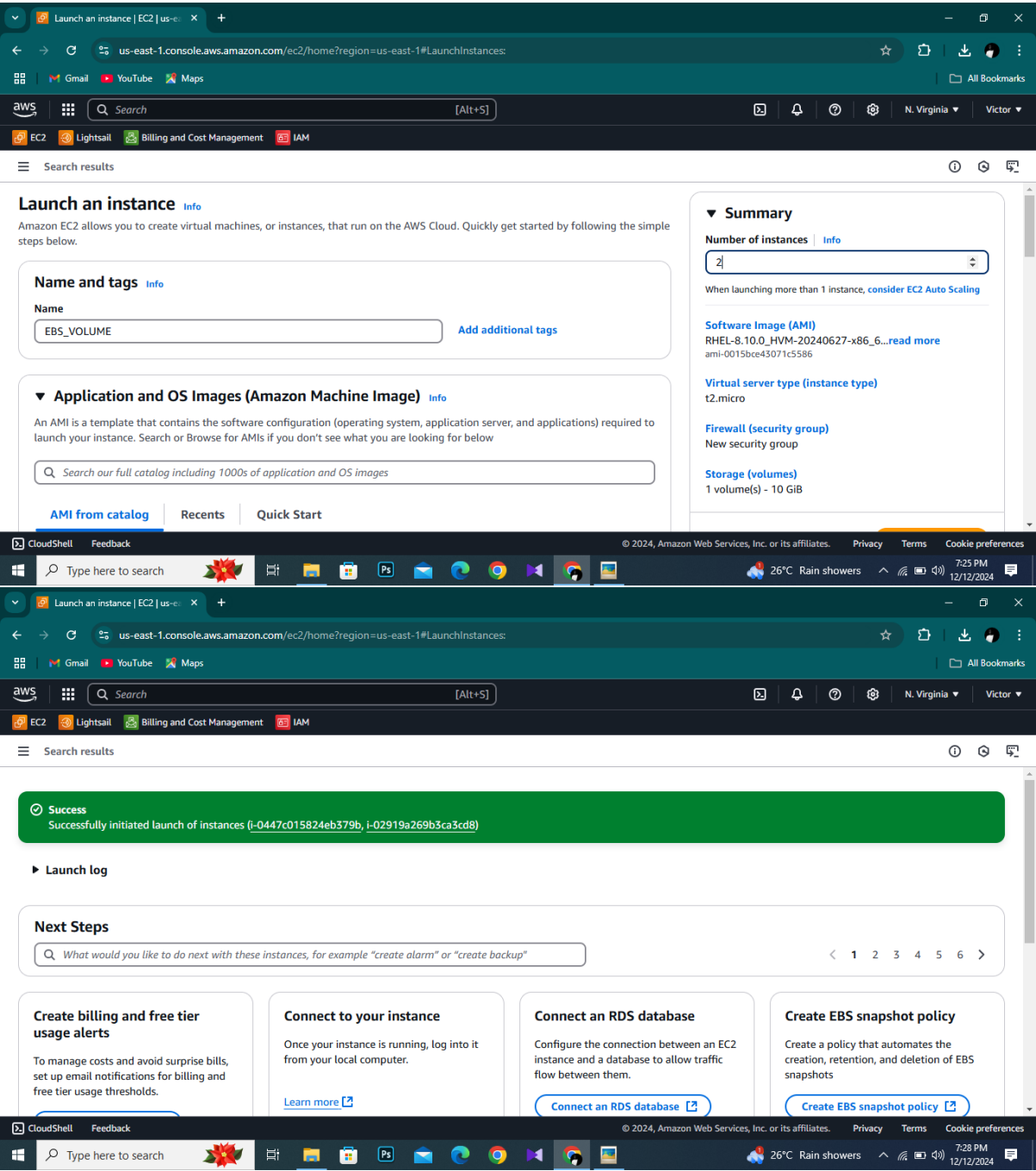
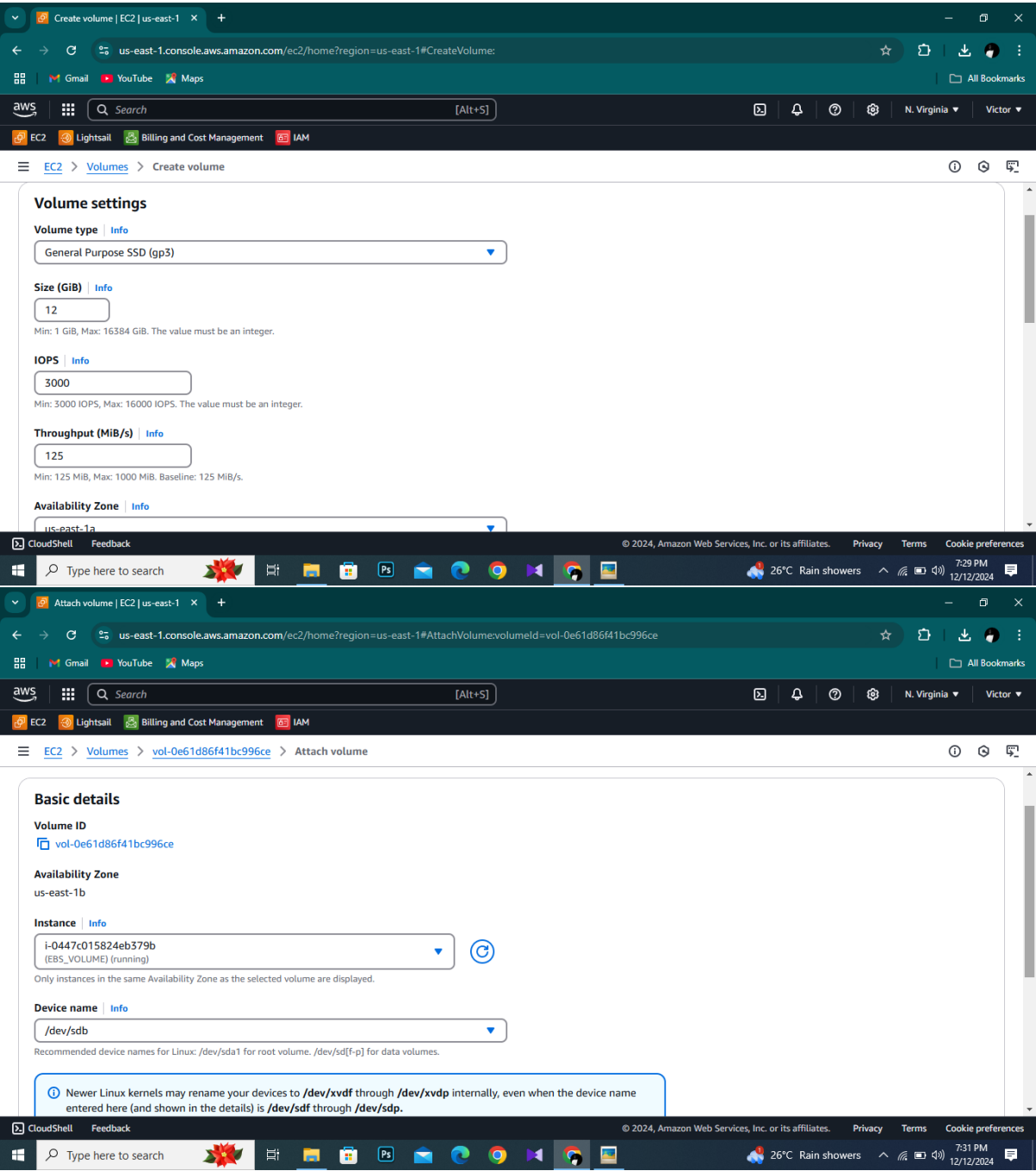


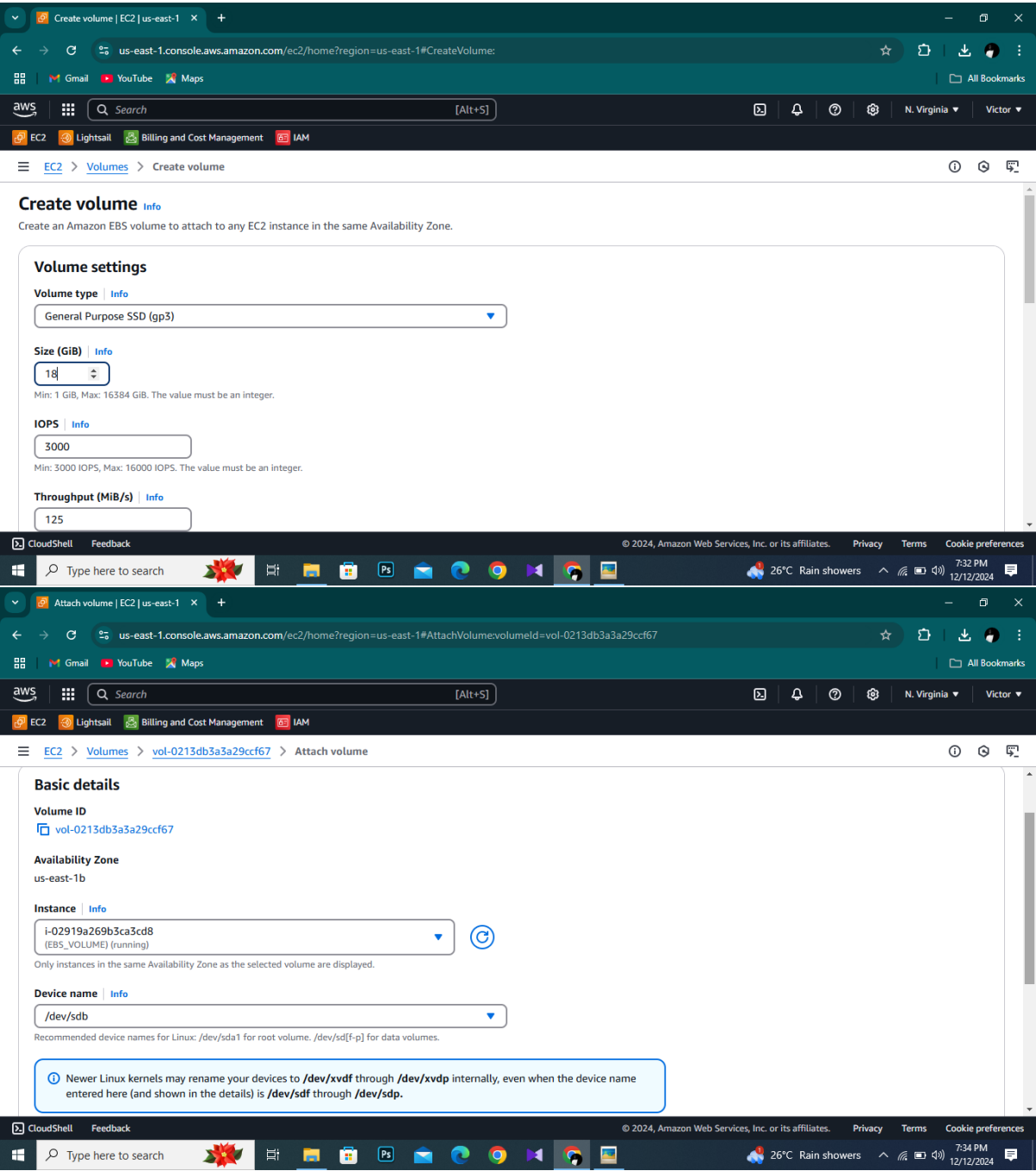
Expertly attached and configured Elastic Block Store (EBS) volumes to EC2 instances, optimizing storage scalability and performance to meet the demands of various applications and workloads.



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```
root@ip-172-31-44-53:~# Using username "ec2-user".
root@ip-172-31-44-53:~# Authenticating with public key "EBS_VOLUME"
root@ip-172-31-44-53:~# Register this system with Red Hat Insights: insights-client --register
root@ip-172-31-44-53:~# Create an account or view all your systems at https://red.ht/insights-dashboard
root@ip-172-31-44-53:~# [ec2-user@ip-172-31-44-53 ~]$ sudo su - root
root@ip-172-31-44-53:~# fdisk -l
Disk /dev/xvda: 10 GiB, 10737418240 bytes, 20971520 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: gpt
Disk identifier: D209C89E-EA5E-4FBD-B161-B461CCE297E0

Device      Start      End  Sectors  Size Type
/dev/xvda1   2048     4095     2048     1M BIOS boot
/dev/xvda2   4096   413695   409600    200M EFI System
/dev/xvda3  413696 20971486 20557791    9.8G Linux filesystem

Disk /dev/xvdb: 12 GiB, 12884901888 bytes, 25165824 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
root@ip-172-31-44-53:~# [example: ssh -i "EBS_VOLUME.pem" ec2-user@ec2-75-101-185-17.compute-1.amazonaws.com]

Note: In most cases, the guessed username is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.

root@ip-172-31-44-53:~# [root@ip-172-31-44-53 ~]# mkfs.ext4 /dev/xvdb
mkfs.ext4 1.45.6 (20-Mar-2020)
Creating filesystem with 3145728 4k blocks and 786432 inodes
Filesystem UUID: c7a442c7-8387-4a18-9b7c-cf3b0594efa6
Superblock backups stored on blocks:
    32768, 98304, 163840, 229376, 294912, 819200, 884736, 1605632, 2654208

Allocating group tables: done
Writing inode tables: done
Creating journal (16384 blocks): done
Writing superblocks and filesystem accounting information: done

[root@ip-172-31-44-53 ~]# mkdir /backup
[root@ip-172-31-44-53 ~]# mount /dev/xvdb /backup/
[root@ip-172-31-44-53 ~]#

root@ip-172-31-40-243:~# Using username "ec2-user".
root@ip-172-31-40-243:~# Authenticating with public key "EBS_VOLUME"
root@ip-172-31-40-243:~# Register this system with Red Hat Insights: insights-client --register
root@ip-172-31-40-243:~# Create an account or view all your systems at https://red.ht/insights-dashboard
root@ip-172-31-40-243:~# [ec2-user@ip-172-31-40-243 ~]$ sudo su - root
root@ip-172-31-40-243:~# fdisk -l
Disk /dev/xvda: 10 GiB, 10737418240 bytes, 20971520 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disklabel type: gpt
Disk identifier: D209C89E-EA5E-4FBD-B161-B461CCE297E0

Device      Start      End  Sectors  Size Type
/dev/xvda1   2048     4095     2048     1M BIOS boot
/dev/xvda2   4096   413695   409600    200M EFI System
/dev/xvda3  413696 20971486 20557791    9.8G Linux filesystem

Disk /dev/xvdb: 18 GiB, 19327352832 bytes, 37748736 sectors
Units: sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
root@ip-172-31-40-243:~# [example: ssh -i "EBS_VOLUME.pem" ec2-user@ec2-75-101-185-17.compute-1.amazonaws.com]

Note: In most cases, the guessed username is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI username.

root@ip-172-31-40-243:~# [root@ip-172-31-40-243 ~]# mkfs.ext4 /dev/xvdb
mkfs.ext4 1.45.6 (20-Mar-2020)
Creating filesystem with 4718592 4k blocks and 1179648 inodes
Filesystem UUID: 5f1e13dd-4a0a-4646-9525-de418212be78
Superblock backups stored on blocks:
    32768, 98304, 163840, 229376, 294912, 819200, 884736, 1605632, 2654208, 4096000

Allocating group tables: done
Writing inode tables: done
Creating journal (32768 blocks): done
Writing superblocks and filesystem accounting information: done

[root@ip-172-31-40-243 ~]# mkdir /linuximages
[root@ip-172-31-40-243 ~]# mount /dev/xvdb /li
lib/      lib64/    linuximages/
[root@ip-172-31-40-243 ~]# mount /dev/xvdb /linuximages/
[root@ip-172-31-40-243 ~]#
```

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The screenshot displays a web browser window with the AWS Management Console URL: `us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#ConnectToInstance:instanceId=i-02919a269b3ca3cd8`. Below the browser, two terminal windows are open. The left terminal, titled `root@ip-172-31-44-53:~`, shows the process of creating a file system on an EC2 instance. It includes commands like `mke2fs 1.45.6 (20-Mar-2020)`, `Creating file system with 3145728 4k blocks and 786432 inodes`, `Filesystem UUID: c7a442c7-8387-Ha18-9b7c-cf3b0594efae`, and `Superblock backups stored on blocks: 32768, 89304, 163840, 229376, 294912, 819200, 884736, 1605632, 2654208`. It also shows the allocation of group tables, writing of inode tables, and the creation of a journal (16384 blocks). The `df -h` command output is shown, indicating the file system is mounted on `/dev/xvdb`. The right terminal, titled `root@ip-172-31-40-243:~`, shows similar steps for another instance. It includes the command `Superblock backups stored on blocks: 32768, 89304, 163840, 229376, 294912, 819200, 884736, 1605632, 2654208, 4096000`. It also shows the allocation of group tables, writing of inode tables, and the creation of a journal (32768 blocks). The `df -h` command output is shown, indicating the file system is mounted on `/dev/xvdb`. Both terminals show the output of `df -h` and `df -h` commands.