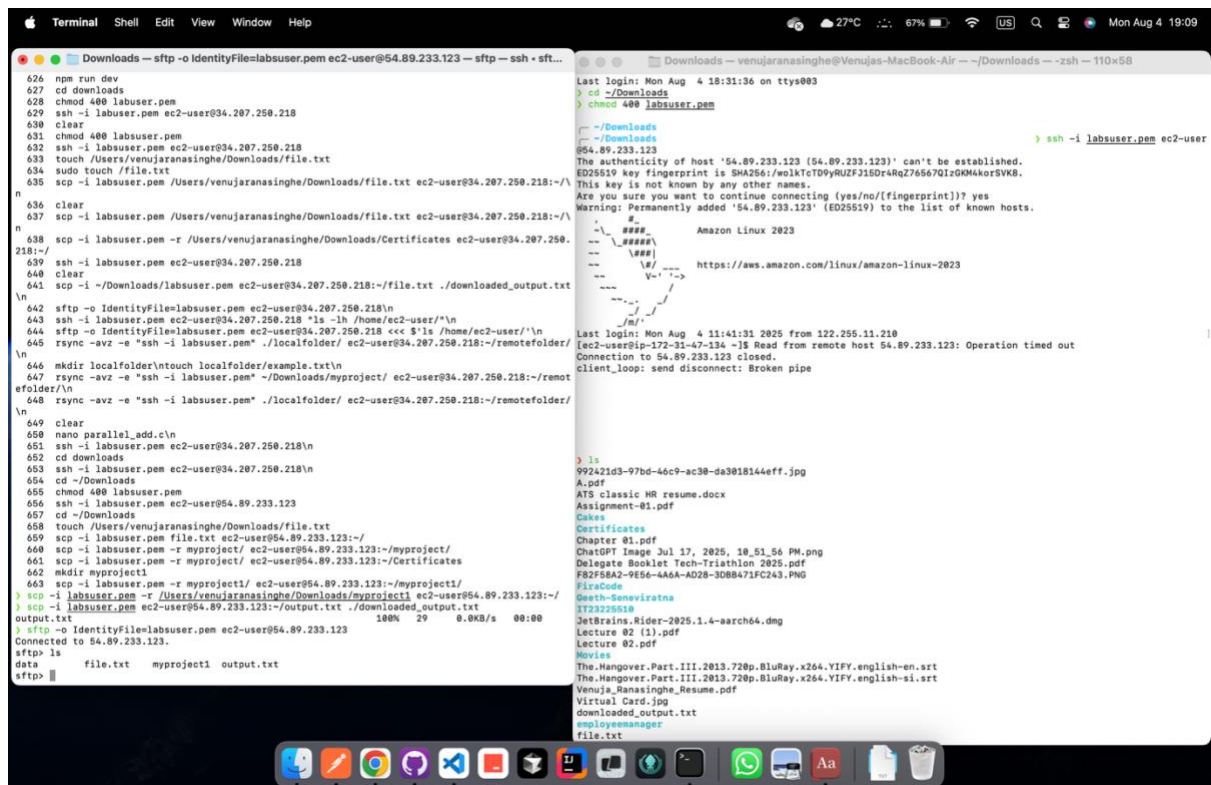


Part 01

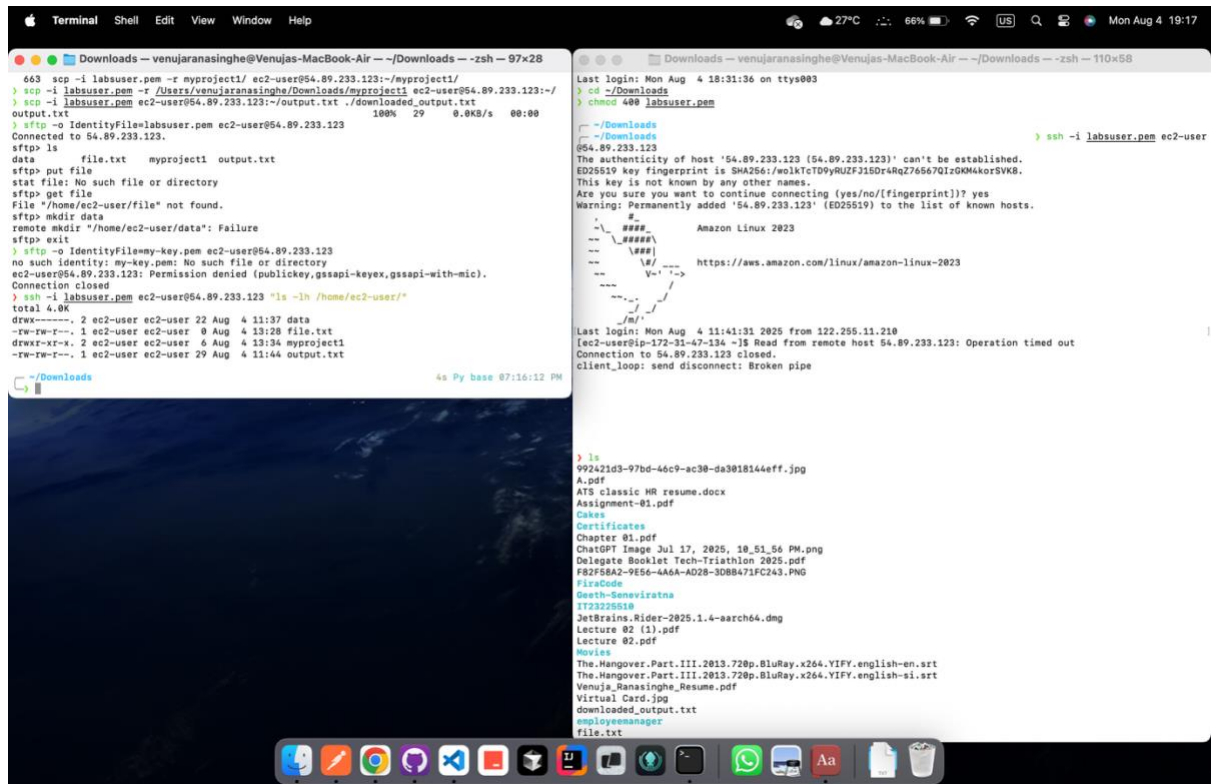
The screenshot shows the AWS Management Console for the 'us-east-1' region. The left sidebar contains navigation links for EC2, including Dashboard, EC2 Global View, Events, Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, Images, AMIs, AMI Catalog, Elastic Block Store, Volumes, Snapshots, Lifecycle Manager, and Network & Security. The main content area displays the 'Instances (1/1)' page. A table lists the instance 'Web Server' with ID 'i-05cf1161dde6f62a5', state 'Running', type 't3.micro', and status '3/3 checks passed'. Below the table, the 'Details' tab for the selected instance shows the 'Instance summary' with fields for Instance ID, IPv6 address, Hostname type, Public IPv4 address (54.89.233.123), Private IPv4 addresses (172.31.47.134), Public DNS (ec2-54-89-233-123.compute-1.amazonaws.com), and Private IP DNS name (IPv4 only).

The screenshot shows the AWS Management Console with a terminal window open. The terminal displays the command `ssh -i labsuser.pem ec2-user@54.89.233.123` and the output of the connection, including the warning about the host's authenticity and the successful login. The background shows the same EC2 instance details as the previous screenshot, with the 'Public IPv4 address' field highlighted and a tooltip indicating it has been copied.


```
Terminal Shell Edit View Window Help
Downloads — venujanarasinghe@Venujas-MacBook-Air — ~/Downloads — -zsh — 97x53
635 scp -i labuser.pem /Users/venujanarasinghe/Downloads/file.txt ec2-user@34.207.250.218:/
636 clear
637 scp -i labuser.pem /Users/venujanarasinghe/Downloads/file.txt ec2-user@34.207.250.218:/
638 scp -i labuser.pem -r /Users/venujanarasinghe/Downloads/Certificates ec2-user@34.207.250.218:/
639 ssh -i labuser.pem ec2-user@34.207.250.218
640 clear
641 scp -i /Downloads/labuser.pem ec2-user@34.207.250.218:/file.txt ./downloaded_output.txt
642 sftp -o IdentityFile=labuser.pem ec2-user@34.207.250.218ln
643 ssh -i labuser.pem ec2-user@34.207.250.218 "ls -lh /home/ec2-user/"\n
644 sftp -o IdentityFile=labuser.pem ec2-user@34.207.250.218 << $'ls /home/ec2-user/'\n
645 rsync -avz -e "ssh -i labuser.pem" ./.localfolder/ ec2-user@34.207.250.218:/remotefolder/
646 mkdir localfolder/touch localfolder/example.txt\n
647 rsync -avz -e "ssh -i labuser.pem" ~/Downloads/myproject/ ec2-user@34.207.250.218:/remotefolder/\n
648 rsync -avz -e "ssh -i labuser.pem" ./.localfolder/ ec2-user@34.207.250.218:/remotefolder/
649 clear
650 nano parallel_add.c\n
651 ssh -i labuser.pem ec2-user@34.207.250.218\n
652 cd downloads
653 ssh -i labuser.pem ec2-user@34.207.250.218\n
654 cd -/Downloads
655 chmod 400 labuser.pem
656 ssh -i labuser.pem ec2-user@34.207.250.218
657 cd -/Downloads
658 touch /Users/venujanarasinghe/Downloads/file.txt
659 scp -i labuser.pem file.txt ec2-user@34.207.250.218:/
660 scp -i labuser.pem -r myproject/ ec2-user@34.207.250.218:/myproject/
661 scp -i labuser.pem -r myproject/ ec2-user@34.207.250.218:/Certificates
662 mkdir myproject1
663 scp -i labuser.pem -r myproject1/ ec2-user@34.207.250.218:/myproject1/
664 scp -i labuser.pem -r /Users/venujanarasinghe/Downloads/myproject1 ec2-user@34.207.250.218:/
665 scp -i labuser.pem ec2-user@34.207.250.218:/output.txt ./downloaded_output.txt
666 sftp -o IdentityFile=labuser.pem ec2-user@34.207.250.218
Connected to 34.207.250.218.
sftp> ls
data      file.txt  myproject output.txt
stat file: No such file or directory
sftp> get file
file "/home/ec2-user/file" not found.
sftp> mkdir data
remote mkdir '/home/ec2-user/data': Failure
sftp> exit
```



The image shows a Mac desktop environment with two terminal windows. The left terminal window, titled 'Downloads - venujanarasinghe@Venujas-MacBook-Air - /Downloads - -zsh - 97x35', shows a user performing several commands to set up a remote connection to a host '54.89.233.123'. The commands include creating a directory 'myproject1', copying files, and using 'scp' to transfer files. The right terminal window, titled 'Downloads - venujanarasinghe@Venujas-MacBook-Air - /Downloads - -zsh - 110x58', shows a user 'labuser.pem' attempting to connect to the same host. The connection fails due to an untrusted host key fingerprint. The desktop background is a dark image of a person's face. The dock at the bottom contains various application icons including Finder, Safari, Chrome, and others.



Part 05

The screenshot shows a macOS terminal window with a dark theme. The title bar indicates the window is titled "Terminal" and is part of a "Downloads" folder. The terminal content is as follows:

```
Downloads — venujaranasinghe@Venujas-MacBook-Air — ~/Downloads — zsh — 97x35
sftp> ls
data      file.txt  myproject1 output.txt
sftp> put file
stat file: No such file or directory
sftp> get file
File "/home/ec2-user/file" not found.
sftp> mkdir data
remote mkdir "/home/ec2-user/data": Failure
sftp> exit
> sftp -o IdentityFile=my-key.pem ec2-user@54.89.233.123
no such identity: my-key.pem: No such file or directory
ec2-user@54.89.233.123: Permission denied (publickey,gssapi-keyex,gssapi-with-mic).
Connection closed
> ssh -i labuser.pem ec2-user@54.89.233.123 "ls -ln /home/ec2-user/"
total 4.0K
drwxr-xr-x. 2 ec2-user ec2-user 22 Aug  4 11:37 data
-rw-rw-r--. 1 ec2-user ec2-user  0 Aug  4 13:28 file.txt
drwxr-xr-x. 2 ec2-user ec2-user  6 Aug  4 13:34 myproject1
-rw-rw-r--. 1 ec2-user ec2-user 29 Aug  4 11:44 output.txt
> sftp -o IdentityFile=labuser.pem ec2-user@54.89.233.123 <<< '$ls /home/ec2-user/'
Connected to 54.89.233.123.
sftp> ls /home/ec2-user/
/home/ec2-user/data      /home/ec2-user/file.txt
/home/ec2-user/myproject1 /home/ec2-user/output.txt
> rsync -avz -e "ssh -i labuser.pem" /localfolder/ ec2-user@54.89.233.123:~/remotefolder/
rsync(95651): error: localfolder/: (l)stat: No such file or directory
Transfer starting: 0 files
created directory /home/ec2-user/remotefolder
sent 29 bytes received 20 bytes  58 bytes/sec
total size is 0 speedup is 0.00
rsync(95651): warning: child 95652 exited with status 23
```

The right pane shows the output of the SSH session:

```
Downloads — venujaranasinghe@Venujas-MacBook-Air — ~/Downloads — zsh — 110x58
Last login: Mon Aug  4 18:31:36 on ttys003
> cd ~/Downloads
> chmod 400 labuser.pem
~/Downloads
> ssh -i labuser.pem ec2-user@
54.89.233.123
The authenticity of host '54.89.233.123 (54.89.233.123)' can't be established.
ED25519 key fingerprint is SHA256:/wolkTcTD9yRUZf315Dr4RqZ7656701zGKM4korSVK8.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '54.89.233.123' (ED25519) to the list of known hosts.
Amazon Linux 2023
https://aws.amazon.com/linux/amazon-linux-2023
Last login: Mon Aug  4 11:41:31 2025 from 122.255.11.210
[ec2-user@ip-172-31-47-134 ~]$ Read from remote host 54.89.233.123: Operation timed out
Connection to 54.89.233.123 closed.
client_loop: send disconnect: Broken pipe
```

The bottom pane shows the output of the 'ls' command on the remote host:

```
> ls
992421d3-97bd-46c9-ac30-da3818144eff.jpg
A.pdf
ATS classic HR resume.docx
Assignment-01.pdf
Cakes
Certificates
Chapter 01.pdf
ChatGPT Image Jul 17, 2025, 10_51_56 PM.png
Delegate Booklet Tech-Triathlon 2025.pdf
F82F58A2-9E56-4A6A-AD28-3D88471FC243.PNG
FixaCode
Geeth-Seneviratna
IT23225518
JetBrains.Rider-2025.1.4-aarch64.dmg
Lecture 02 (1).pdf
Lecture 02.pdf
Movies
The.Hangover.Part.III.2013.720p.BluRay.x264.YIFY.english-en.srt
The.Hangover.Part.III.2013.720p.BluRay.x264.YIFY.english-si.srt
Venuja_Ranasinghe_Resume.pdf
Virtual Card.jpg
downloaded_output.txt
employeemanager
file.txt
```

Part 06

The screenshot shows a macOS terminal window with a dark theme. The title bar indicates the window is titled "Terminal" and is part of a "Downloads" folder. The terminal content is as follows:

```
Downloads — venujaranasinghe@Venujas-MacBook-Air — ~/Downloads — zsh — 97x48
touch /Users/venujaranasinghe/Downloads/file.txt
658 scp -i labuser.pem file.txt ec2-user@54.89.233.123:~/
660 scp -i labuser.pem -r myproject/ ec2-user@54.89.233.123:~/myproject/
661 scp -i labuser.pem -r myproject/ ec2-user@54.89.233.123:~/Certificates
662 mkdir myproject1
663 scp -i labuser.pem -r myproject/ ec2-user@54.89.233.123:~/myproject1/
> scp -i labuser.pem -r /Users/venujaranasinghe/Downloads/myproject1 ec2-user@54.89.233.123:~/
> scp -i labuser.pem -r ec2-user@54.89.233.123:~/output.txt ./downloaded_output.txt
output.txt 100% 29 0.0KB/s 00:00
> sftp -o IdentityFile=labuser.pem ec2-user@54.89.233.123
Connected to 54.89.233.123.
sftp> ls
data      file.txt  myproject1 output.txt
sftp> put file
stat file: No such file or directory
sftp> get file
File "/home/ec2-user/file" not found.
sftp> mkdir data
remote mkdir "/home/ec2-user/data": Failure
sftp> exit
> sftp -o IdentityFile=my-key.pem ec2-user@54.89.233.123
no such identity: my-key.pem: No such file or directory
ec2-user@54.89.233.123: Permission denied (publickey,gssapi-keyex,gssapi-with-mic).
Connection closed
> ssh -i labuser.pem ec2-user@54.89.233.123 "ls -ln /home/ec2-user/"
total 4.0K
drwxr-xr-x. 2 ec2-user ec2-user 22 Aug  4 11:37 data
-rw-rw-r--. 1 ec2-user ec2-user  0 Aug  4 13:28 file.txt
drwxr-xr-x. 2 ec2-user ec2-user  6 Aug  4 13:34 myproject1
-rw-rw-r--. 1 ec2-user ec2-user 29 Aug  4 11:44 output.txt
> sftp -o IdentityFile=labuser.pem ec2-user@54.89.233.123 <<< '$ls /home/ec2-user/'
Connected to 54.89.233.123.
sftp> ls /home/ec2-user/
/home/ec2-user/data      /home/ec2-user/file.txt
/home/ec2-user/myproject1 /home/ec2-user/output.txt
> rsync -avz -e "ssh -i labuser.pem" /localfolder/ ec2-user@54.89.233.123:~/remotefolder/
rsync(95651): error: localfolder/: (l)stat: No such file or directory
Transfer starting: 0 files
created directory /home/ec2-user/remotefolder
sent 29 bytes received 20 bytes  58 bytes/sec
total size is 0 speedup is 0.00
rsync(95651): warning: child 95652 exited with status 23
touch parallel_add.c
vi parallel_add.c
```

The right pane shows the output of the SSH session:

```
Downloads — venujaranasinghe@Venujas-MacBook-Air — ~/Downloads — zsh — 110x58
Last login: Mon Aug  4 18:31:36 on ttys003
> cd ~/Downloads
> chmod 400 labuser.pem
~/Downloads
> ssh -i labuser.pem ec2-user@
54.89.233.123
The authenticity of host '54.89.233.123 (54.89.233.123)' can't be established.
ED25519 key fingerprint is SHA256:/wolkTcTD9yRUZf315Dr4RqZ7656701zGKM4korSVK8.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '54.89.233.123' (ED25519) to the list of known hosts.
Amazon Linux 2023
https://aws.amazon.com/linux/amazon-linux-2023
Last login: Mon Aug  4 11:41:31 2025 from 122.255.11.210
[ec2-user@ip-172-31-47-134 ~]$ Read from remote host 54.89.233.123: Operation timed out
Connection to 54.89.233.123 closed.
client_loop: send disconnect: Broken pipe
```

The bottom pane shows the output of the 'ls' command on the remote host:

```
> ls
992421d3-97bd-46c9-ac30-da3818144eff.jpg
A.pdf
ATS classic HR resume.docx
Assignment-01.pdf
Cakes
Certificates
Chapter 01.pdf
ChatGPT Image Jul 17, 2025, 10_51_56 PM.png
Delegate Booklet Tech-Triathlon 2025.pdf
F82F58A2-9E56-4A6A-AD28-3D88471FC243.PNG
FixaCode
Geeth-Seneviratna
IT23225518
JetBrains.Rider-2025.1.4-aarch64.dmg
Lecture 02 (1).pdf
Lecture 02.pdf
Movies
The.Hangover.Part.III.2013.720p.BluRay.x264.YIFY.english-en.srt
The.Hangover.Part.III.2013.720p.BluRay.x264.YIFY.english-si.srt
Venuja_Ranasinghe_Resume.pdf
Virtual Card.jpg
downloaded_output.txt
employeemanager
file.txt
```

