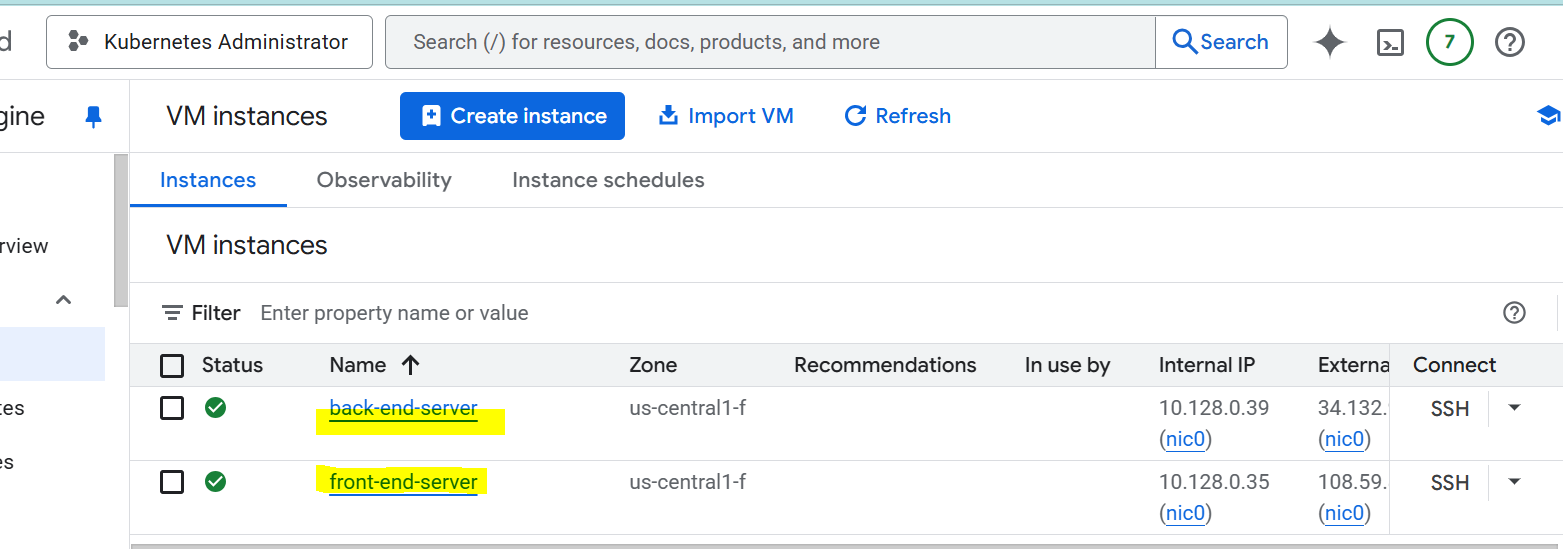
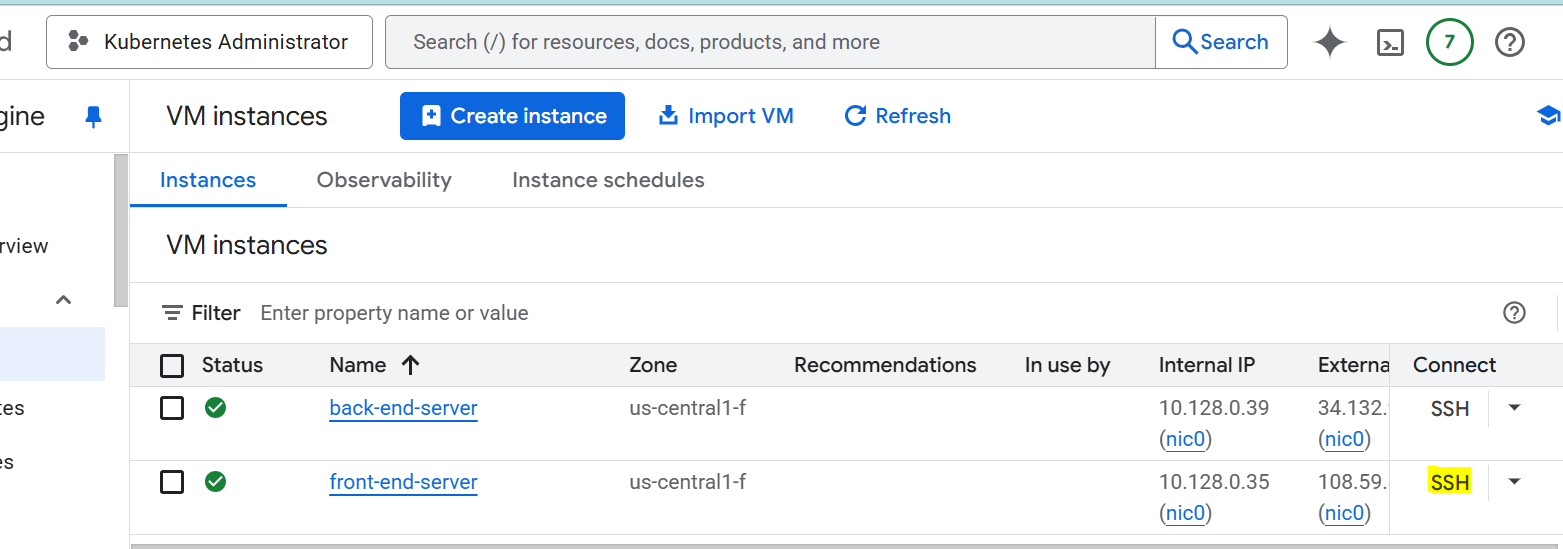
1. Create a Servers in GCP using Compute Engine.

Server 1 : [front-end-server](https://console.cloud.google.com/compute/instancesDetail/zones/us-central1-a/instances/front-end-server?inv=1&invt=Ab3rKQ&project=lustrous-drake-412814)

Server 2: [back-end-server](https://console.cloud.google.com/compute/instancesDetail/zones/us-central1-b/instances/back-end-server?inv=1&invt=Ab3rKQ&project=lustrous-drake-412814)

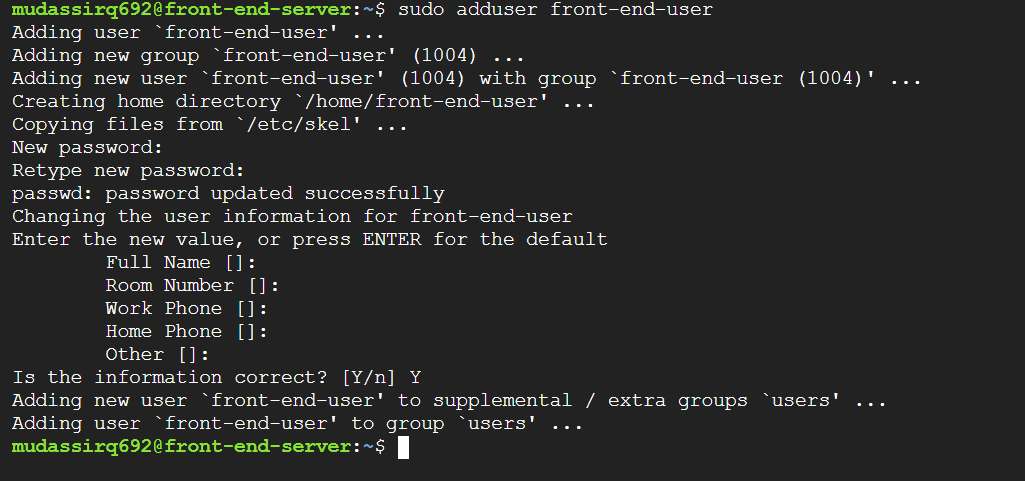


1. Now Connect to the front-end-server Server via click on ssh.

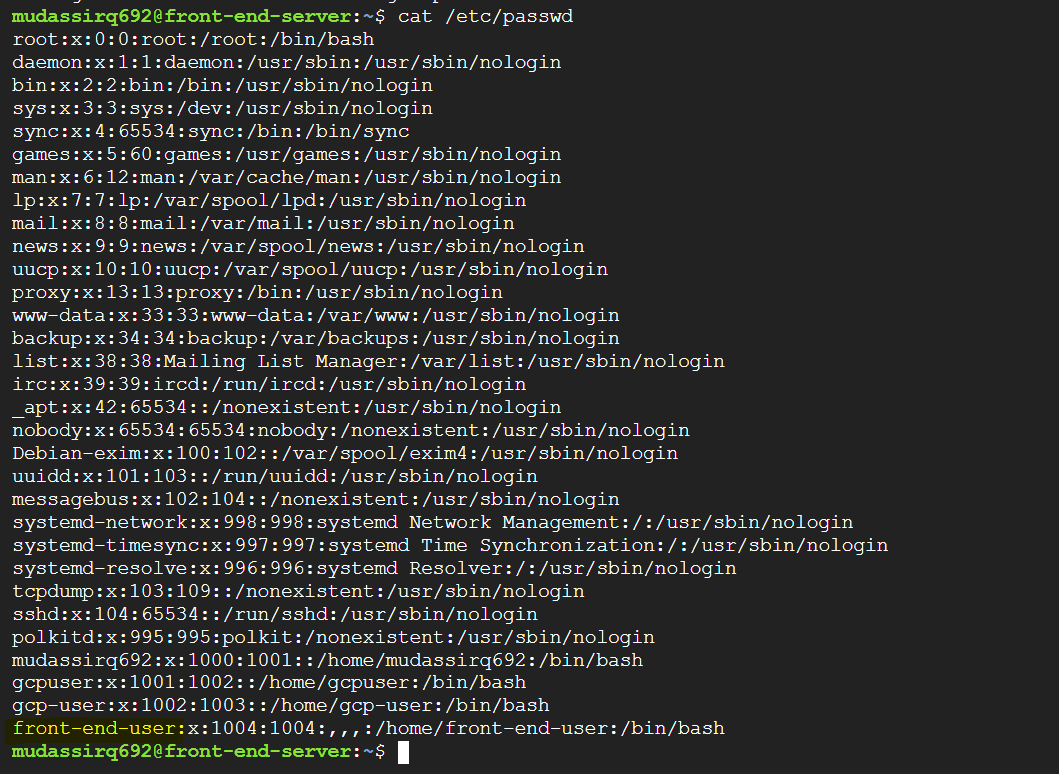


1. Create a User called front-end-user.

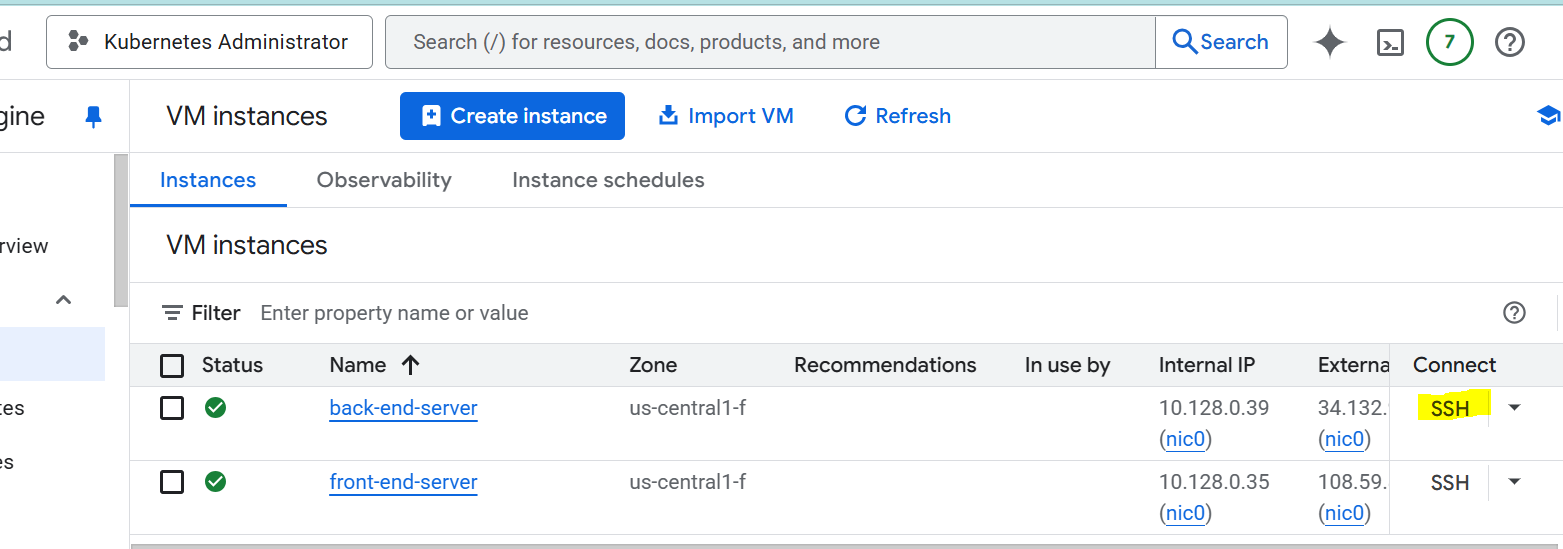
# sudo adduser front-end-user



Note: User has been create to confirm do #cat /etc/passwd

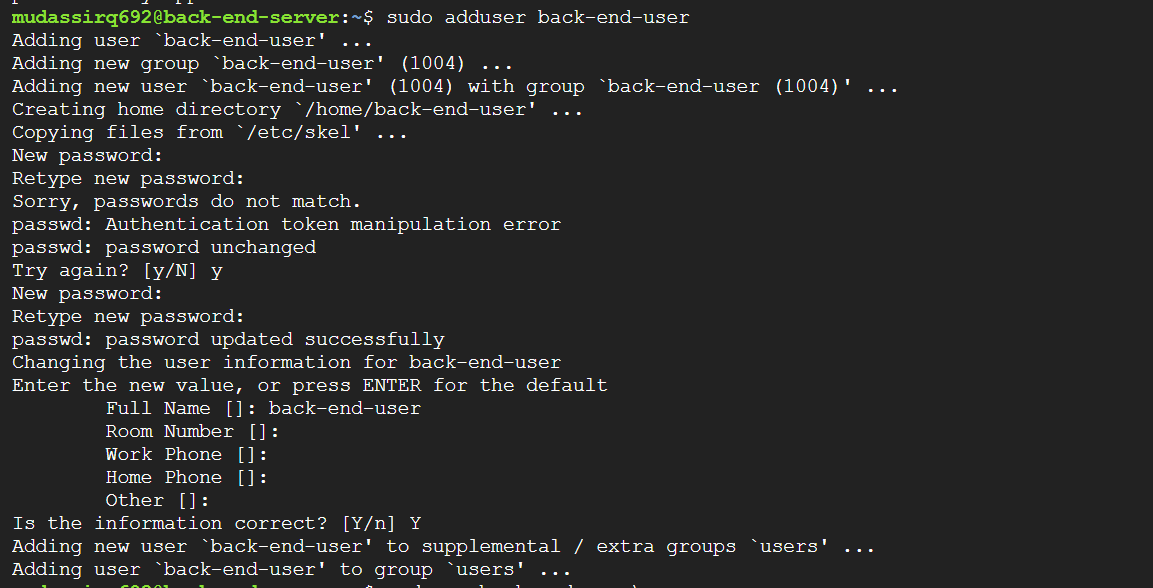


1. Now Connect to the Back-end-server Server via click on ssh.



1. Create a User called back-end-user.

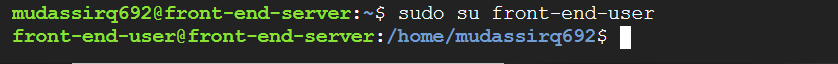
# sudo adduser back-end-user



Note: User has been create to confirm do #cat /etc/passwd

1. Switch to frond-end-user and change to home directory.

#sudo su front-end-user

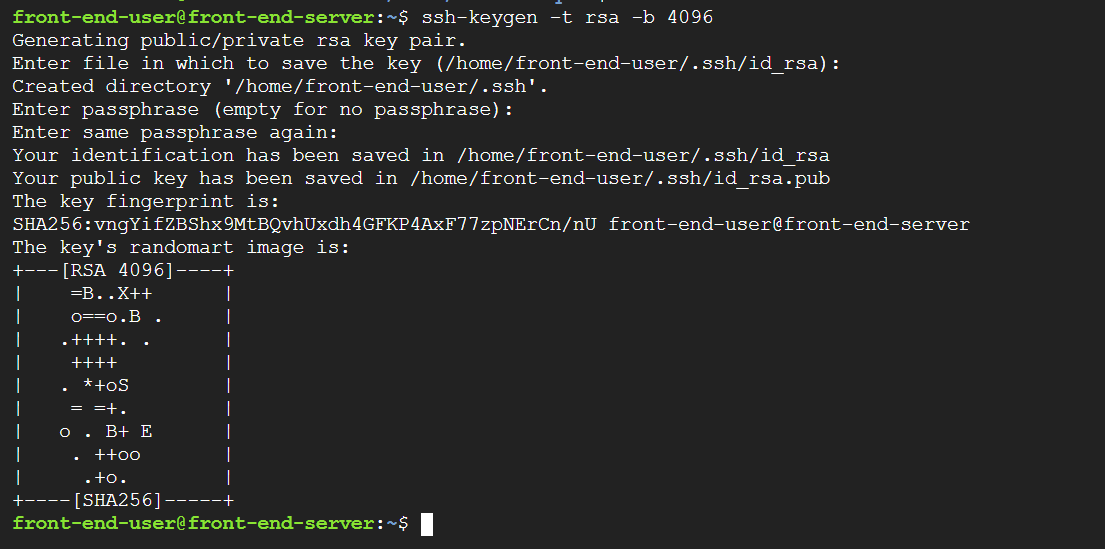


#cd



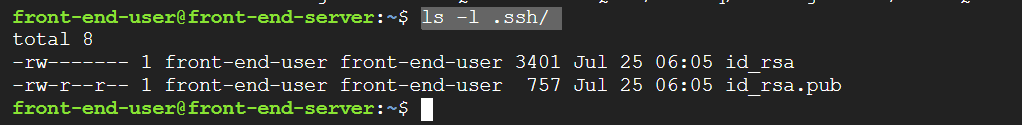
1. **Generate an SSH key (if not already generated)**

**# ssh-keygen -t rsa -b 4096**



1. Copy the public key to the back-end-server

# l **front-end-user@front-end-server:~$** s -l .ssh/



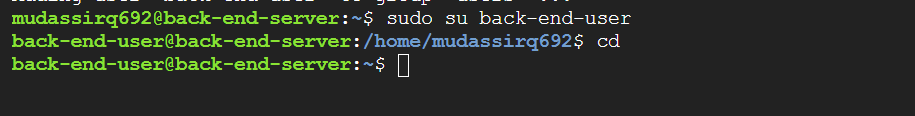
**front-end-user@front-end-server:~$ cat ~/.ssh/id\_rsa.pub**

sh-rsa AAAAB3NzaC1yc2EAAAADAQABAAACAQC2Hyv17+8S2y52K4EZEtob8nsP/ymboVH8YVonp6iyrCmk4ut5EE+byVO0J2K+rLeRjaRYRGf4jtwEgSJ07S710vROrKi//d9Q8nnifAYwaGd+FxrK63td2YOqi2WvumDDRXVdTz5tq4ay2C7XpiLW+r3/K7BVxrPkiUtsstry4……..

**Copy and paste it to the back-end-server**

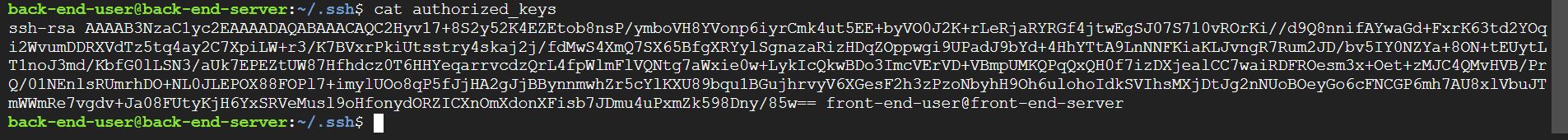
**#** **sudo su back-end-user**

**# ls**



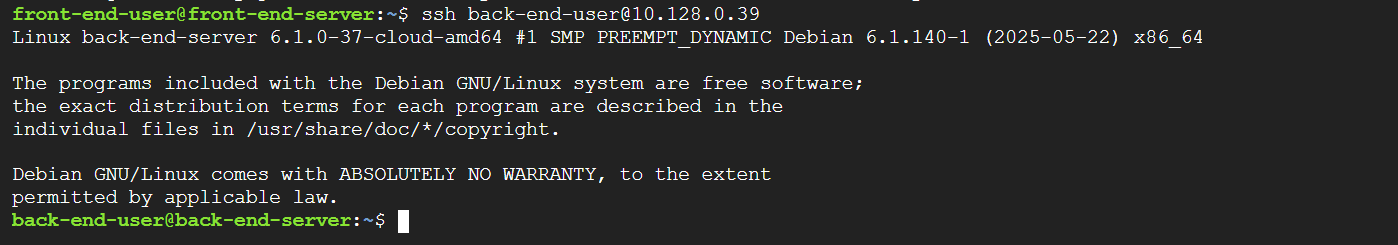
**back-end-user@back-end-server:~$ mkdir -p ~/.ssh**

**back-end-user@back-end-server:~$ nano ~/.ssh/authorized\_keys**



1. **Now to check the connectivity test from .**

**#ssh back-end-server@10.128.0.33**

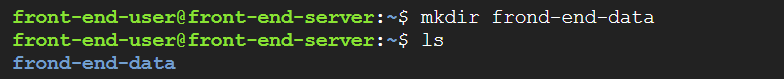


**Front-end-user successfully connect to back-end-user via passwordless.**

Data-Backup

1. Create a frond-end-data in Front-end-server.

# mkdir frond-end-data



1. Create a **data-generateor.sh uder** home directory **/home/front-end-user.**

**#nano data-generateor.sh**

**#!/bin/bash**

**# Path where logs will be generated**

**TARGET\_DIR="/home/front-end-user/front-end-data"**

**# Total files and size per file (in MB)**

**TOTAL\_FILES=100**

**SIZE\_PER\_FILE\_MB=5**

**# Ensure target directory exists**

**mkdir -p "$TARGET\_DIR"**

**echo "Generating $TOTAL\_FILES log files of ~$SIZE\_PER\_FILE\_MB MB each at $TARGET\_DIR..."**

**# Sample log entry**

**generate\_log\_line() {**

**echo "$(date '+%d/%b/%Y:%H:%M:%S %z') $(shuf -n 1 -e 192.168.0.{1..255}) - - [$(date '+%d/%b/%Y:%H:%M:%S %z')] \"GET /index.html HTTP/1.1\" 200 $(shuf -i 1000-5000 -n 1)"**

**}**

**# Generate files**

**for i in $(seq -w 1 $TOTAL\_FILES); do**

**FILE="$TARGET\_DIR/log\_$i.log"**

**echo "Creating $FILE..."**

**> "$FILE"**

**while [[ $(du -m "$FILE" | cut -f1) -lt $SIZE\_PER\_FILE\_MB ]]; do**

**generate\_log\_line >> "$FILE"**

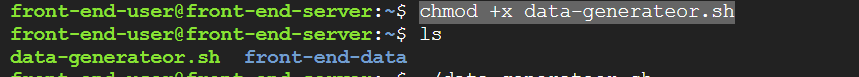
**done**

**done**

**echo "✅ Log generation complete: 100 files, ~500MB total in $TARGET\_DIR"**

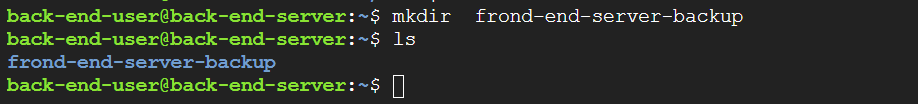
1. **Change the chmod +x data-generateor.sh**

**# chmod +x data-generateor.sh**



1. Now create a frond-end-server-backup dir in a backup server

#mkdir frond-end-server-backup



1. Now prepare a copy\_logs.sh script in frond-end-server.

# nano copy\_logs.sh

#!/bin/bash

# Local source directory

SRC\_DIR="/home/front-end-user/front-end-data"

# Remote destination

REMOTE\_USER="back-end-user"

REMOTE\_HOST="10.128.0.33"

REMOTE\_DIR="/home/back-end-user/front-end-server-backup"

echo "🔄 Copying files from $SRC\_DIR to $REMOTE\_USER@$REMOTE\_HOST:$REMOTE\_DIR..."

# Perform the copy

scp -r "$SRC\_DIR"/\* "$REMOTE\_USER@$REMOTE\_HOST:$REMOTE\_DIR"

# Check if copy succeeded

if [ $? -eq 0 ]; then

echo "✅ Files copied successfully!"

else

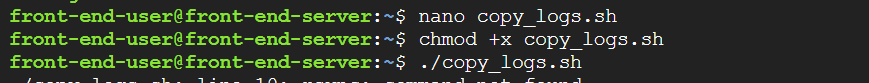
echo "❌ Failed to copy files!"

fi

1. Change the copy\_logs\_sh file permission to execuste and run it.

# chmod +x copy\_logs.sh

# ./copy\_logs.sh



1. Setup the crontab

#crontab –e

\* \* \* \* \* /bin/bash -c '/home/front-end-user/copy\_logs.sh > /home/front-end-user/logs/copy\_logs\_cron\_$(date +\%Y-\%m-\%d\_\%H-\%M).log 2>&1'