Create a shell script to ping every server in the 172.16.17.x subnet (where x is a number between 0 and 255). If the ping succeeds, display the message "Server 172.16.17.x is up and running." If the ping fails, display the message "Server 172.16.17.x is unreachable."and send email

-open file (script.sh)

```bash
#!/bin/bash

EMAIL="ahmed.software200@gmail.com"

for i in {0..255}
do
    ping -c 1 -w 1 172.16.17.$i &> /dev/null

    if [ $? -eq 0 ]; then
        echo "Server 172.16.17.$i is up and running."

        echo -e "To: $EMAIL\nSubject: Server 172.16.17.$i is up\n\nServer 172.16.17.$i is up and running." | m
smtp --debug --from=default -t
    else
        echo "Server 172.16.17.$i is unreachable."

        echo -e "To: $EMAIL\nSubject: Server 172.16.17.$i is unreachable\n\nServer 172.16.17.$i is unreachable
." | msmtp --debug --from=default -t
    fi
done
~
~
~
```

Send alarm to ahmed.software

-sudo chmod +x script.sh

./script.sh

```
ahmed@ahmed-VMware-Virtual-Platform:~$ vim ping.sh
ahmed@ahmed-VMware-Virtual-Platform:~$ sudo chmod +x ping.sh
[sudo] password for ahmed:
ahmed@ahmed-VMware-Virtual-Platform:~$ ./ping.sh
Server 172.16.17.0 is unreachable.
ignoring system configuration file /etc/msmtprc: No such file or directory
loaded user configuration file /home/ahmed/.msmtprc
falling back to default account
using account default from /home/ahmed/.msmtprc
host = smtp.gmail.com
port = 587
source ip = (not set)
proxy host = (not set)
proxy port = 0
socket = (not set)
timeout = off
protocol = smtp
domain = localhost
auth = choose
user = ahmedmahelove1@gmail.com
password = *
passwordeval = (not set)
ntlmdomain = (not set)
tls = on
tls_starttls = on
tls_trust_file = /etc/ssl/certs/ca-certificates.crt
tls_crl_file = (not set)
tls_fingerprint = (not set)
tls_key_file = (not set)
```

Message

ahmedmahelove1	**Server 172.16.17.24 is unreachable** - Server 172.16.17.24 is unreachable.	5:24 AM
ahmedmahelove1	**Server 172.16.17.23 is unreachable** - Server 172.16.17.23 is unreachable.	5:24 AM
ahmedmahelove1	**Server 172.16.17.22 is unreachable** - Server 172.16.17.22 is unreachable.	5:24 AM
ahmedmahelove1	**Server 172.16.17.21 is unreachable** - Server 172.16.17.21 is unreachable.	5:24 AM
ahmedmahelove1	**Server 172.16.17.20 is unreachable** - Server 172.16.17.20 is unreachable.	5:24 AM
ahmedmahelove1	**Server 172.16.17.19 is unreachable** - Server 172.16.17.19 is unreachable.	5:24 AM
ahmedmahelove1	**Server 172.16.17.18 is unreachable** - Server 172.16.17.18 is unreachable.	5:24 AM
ahmedmahelove1	**Server 172.16.17.17 is unreachable** - Server 172.16.17.17 is unreachable.	5:24 AM
ahmedmahelove1	**Server 172.16.17.16 is unreachable** - Server 172.16.17.16 is unreachable.	5:23 AM
ahmedmahelove1	**Server 172.16.17.15 is unreachable** - Server 172.16.17.15 is unreachable.	5:23 AM
ahmedmahelove1	**Server 172.16.17.14 is unreachable** - Server 172.16.17.14 is unreachable.	5:23 AM
ahmedmahelove1	**Server 172.16.17.13 is unreachable** - Server 172.16.17.13 is unreachable.	5:23 AM
ahmedmahelove1	**Server 172.16.17.12 is unreachable** - Server 172.16.17.12 is unreachable.	5:23 AM