```
httpd sshd dnsmasg pulseaudio conky tor Telegram firefox "[[:di
 LISTEN ESTABLISHED TIME WAIT
established)
   Foreign Address
                            State
                                         PID/Program name
                                         380/dnsmasq
   0.0.0.0:
   0.0.0.0:
                                         370/sshd
                                         6363/cupsd
   0.0.0.0:
   \theta.\theta.\theta.\theta
                                         376/1
                                         478/pulseaudio
   0.0.0.0
   8.39.54.57:443
                             ESTABLISHED 496/firefox
   149.154.167.91:80
                             ESTABLISHED 4082/Telegram
   176.34.244.212:80
                            ESTABLISHED 520/conky
   149.154.167.91:443
                            ESTABLISHED 4082/Telegram
                            ESTABLISHED 496/firefox
   54.149.244.33:443
   192.168.0.5:2049
                            ESTABLISHED -
   192.168.0.5:443
                            TIME WAIT
                                         14629/httpd
                                         380/dnsmasq
                                         370/sshd
                                         6363/cupsd
                                         373/mpd
                                         478/pulseaudio
                                         380/dnsmasq
   0.0.0.0:
                                         380/dnsmasq
                                             2d 10h 32m < 0.0 0.2
```

Shell Scripting: A Comprehensive Guide

Learn how to write powerful shell scripts to automate tasks and improve productivity. This presentation covers essential techniques and provides practical examples.

Listing Files in a Directory

Q1) Write a shell script that displays a list of all the files in the current directory.

Use the following code to accomplish this:

#!bin/bash/

for entry in ls \$search_dir; do

echo \$entry

done

Output

Running the script will produce the desired result:

a.txt b.txt s2.sh s3.sh s4.sh s.sh

Checking File Types

Q4) Write a shell script that receives any number of file names as arguments, checks if every argument supplied is a file or a directory and reports accordingly. When ever the argument is a file or directory.

```
#!/bin/bash
for arg in "$@"; do
  if [ -e "$arg" ]; then
     if [ -d "$arg" ]; then
        echo "$arg is a directory."
     elif [ -f "$arg" ]; then
        echo "$arg is a file."
     else
        echo "$arg exists but is neither a file nor
a directory."
     fi
  else
     echo "$arg does not exist." fi done
```

Output

Running the script will produce the desired result:

bash bash.sh bash.sh

bash.sh is a file.