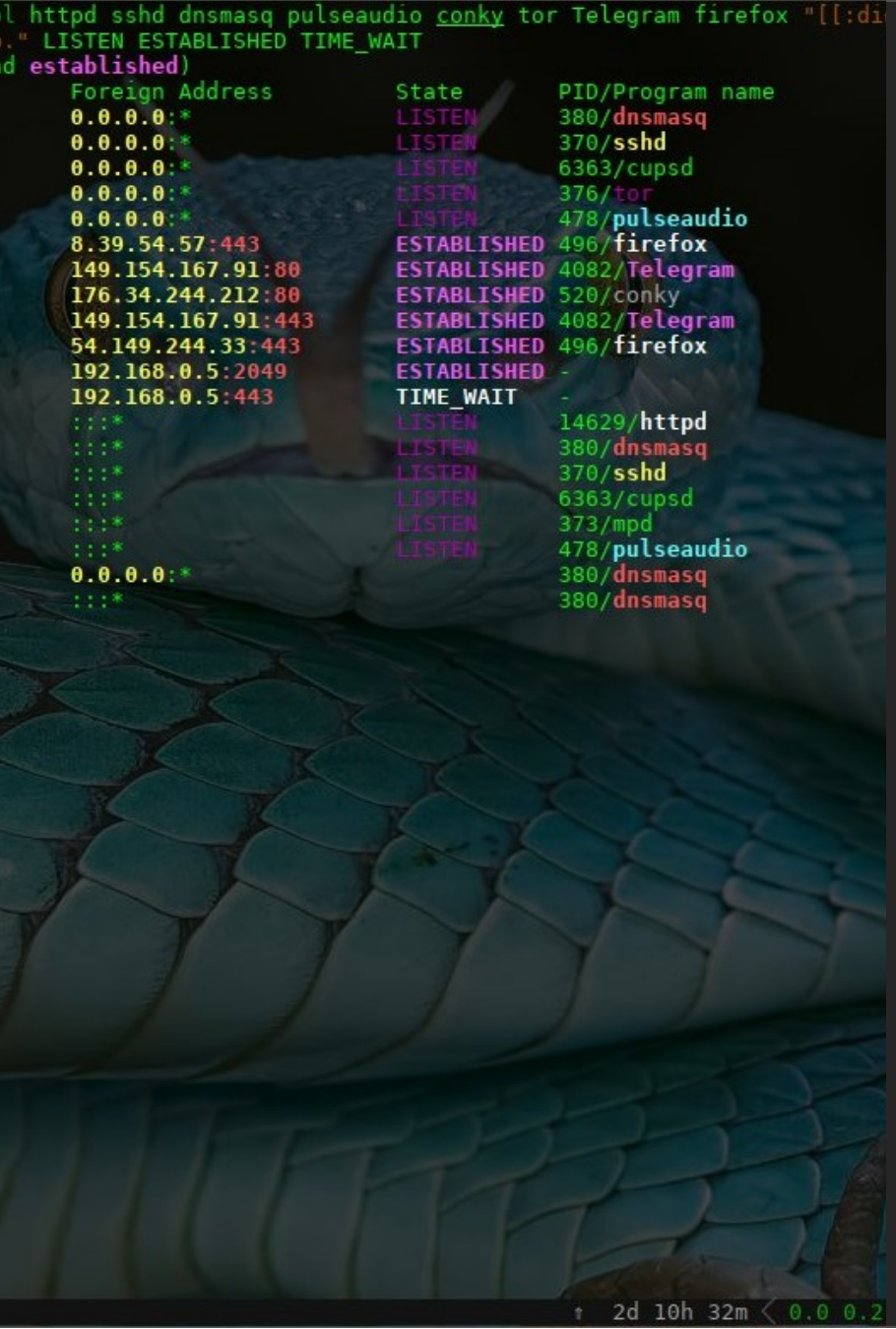


# Shell Scripting: A Comprehensive Guide

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.