Here's a **very basic, beginner-friendly bash script** for your **Linux assessment** using **Ubuntu** — perfect for someone just starting out in cybersecurity.

□ Script Goal (Beginner-Level)

Let's create a script that:

1. Prints system information
2. Creates a file simulating a log
3. Shows basic log analysis (counts IPs)
4. Teaches you some real bash usage

basic_log_script.sh

```
bash
Copy code
#!/bin/bash

# Very basic Linux + cybersecurity bash script

echo "==== Basic Linux Log Script ===="

# 1. Show current system time and user
echo "[+] Current Date and Time: $(date)"
echo "[+] Logged in as: $(whoami)"

# 2. Create a fake log file (simulating web access logs)
echo "[+] Creating fake access log..."

cat <<EOF > access.log
192.168.1.10 - - [09/Jul/2025] "GET /index.html"
192.168.1.20 - - [09/Jul/2025] "GET /login.html"
192.168.1.10 - - [09/Jul/2025] "GET /about.html"
192.168.1.30 - - [09/Jul/2025] "GET /index.html"
192.168.1.20 - - [09/Jul/2025] "GET /index.html"
EOF

echo "[+] Log file created: access.log"

# 3. Analyze the log file: Show how many times each IP visited
echo "[+] Top IP addresses:"
awk '{print $1}' access.log | sort | uniq -c | sort -nr

echo "==== Script Completed ===="
```

🛠How to Use It

◆ Step 1: Create the script

```
nano basic_log_script.sh
```

◆ Step 2: Paste the script and save it

- Paste the text from above
- Save with `CTRL + O`, then `Enter`, then `CTRL + X`

◆ Step 3: Make it executable

```
chmod +x basic_log_script.sh
```

◆ Step 4: Run it

```
./basic_log_script.sh
```

What This Teaches

Step	What You Learn
`date`, `whoami`	System info commands
`cat <<EOF`	How to write to a file
`awk`, `sort`, `uniq`	Simple log analysis
`chmod +x`	Making a bash script executable