

Task 8: Website Availability Checker – PoC

This Proof of Concept shows how to **monitor multiple websites** and log their status using a **Bash script** and `curl`.

Objective

- Use a `sites.txt` file containing a list of URLs.
- Check if each site is **up** or **down** using `curl` (or `ping`).
- Log results with HTTP response codes into `site_status.log`.

Script: `site_checker.sh`

```
#!/bin/bash

INPUT_FILE="sites.txt"
LOG_FILE="site_status.log"

# 🔄 Clear previous log
> "$LOG_FILE"

# 📁 Check if sites.txt exists
if [ ! -f "$INPUT_FILE" ]; then
    echo "❌ File '$INPUT_FILE' not found!"
    exit 1
fi

echo "🌐 Checking website availability..."
echo "Results logged to $LOG_FILE"
echo "==== Website Status Check =====>> $LOG_FILE"
echo "Date: $(date)" >> "$LOG_FILE"
```

```

echo "===== " >> "$LOG_FILE"

# 🔍 Loop through each URL in sites.txt
while IFS= read -r site; do
    # skip empty lines
    if [ -z "$site" ]; then
        continue
    fi

    echo -n "Checking $site ... "

    # Use curl to check HTTP response (silent mode, only get HTTP code)
    status_code=$(curl -o /dev/null -s -w "%{http_code}" --max-time 5 "$site")

    if [[ "$status_code" -eq 200 ]]; then
        echo "✅ UP"
        echo "$site – UP" >> "$LOG_FILE"
    else
        echo "❌ DOWN (Code: $status_code)"
        echo "$site – DOWN (HTTP $status_code)" >> "$LOG_FILE"
    fi
done < "$INPUT_FILE"

echo "✅ Done. Check '$LOG_FILE' for details."

```

Setup & Run

1 Create a `sites.txt` file with URLs:

```

https://google.com
https://github.com
https://linkedin.com

```

2 Make script executable:

```
chmod +x site_checker.sh
```

3 Run the script:

```
./site_checker.sh
```

```
https://example.com
https://google.com
https://nonexistent.site.fake
```

```
INPUT_FILE=~/.sites.txt
LOG_FILE=~/.site_status.log
TIMESTAMP=$(date "+%Y-%m-%d %H:%M:%S")

echo "=== Website Check at $TIMESTAMP ===" >> "$LOG_FILE"

while read -r URL; do
    if curl -Is --max-time 5 "$URL" | head -n 1 | grep "200\|301\|302" > /dev/null; then
        echo "$TIMESTAMP - $URL is UP" >> "$LOG_FILE"
    else
        echo "$TIMESTAMP - $URL is DOWN" >> "$LOG_FILE"
    fi
done < "$INPUT_FILE"

echo "" >> "$LOG_FILE"
```

```
(kali@kali)-[~]
$ chmod +x ~/site_check.sh

(kali@kali)-[~]
$ ./site_check.sh

(kali@kali)-[~]
$ cat ~/.site_status.log

=== Website Check at 2025-07-31 00:16:28 ===
2025-07-31 00:16:28 - https://example.com is UP
2025-07-31 00:16:28 - https://google.com is UP
2025-07-31 00:16:28 - https://nonexistent.site.fake is DOWN
```