

Task 9: Environment & Disk Report – PoC

This PoC demonstrates a simple **Bash script** that gathers system information and writes it to a report file.

Objective

The script should generate a **system report** that includes:

- ✓ Current user, hostname, and uptime
 - ✓ Mounted filesystems and usage
 - ✓ Path and shell-related environment variables
-

Script: **env_disk_report.sh**

```
#!/bin/bash

REPORT="env_disk_report.txt"

echo "📄 Generating Environment and Disk Report ... "
echo "===== " > "$REPORT"
echo "Report generated on: $(date)" >> "$REPORT"
echo "" >> "$REPORT"

# 1 Current user, hostname, uptime
echo "==== System Information =====" >> "$REPORT"
echo "Current User : $(whoami)" >> "$REPORT"
echo "Hostname    : $(hostname)" >> "$REPORT"
echo "Uptime      : $(uptime -p)" >> "$REPORT"
echo "" >> "$REPORT"
```

```
# 2 Mounted filesystems and usage
echo "==== Mounted Filesystems =====" >> "$REPORT"
df -h >> "$REPORT"
echo "" >> "$REPORT"

# 3 Path and shell-related environment variables
echo "==== Environment Variables (Path & Shell) =====" >> "$REPORT"
echo "PATH : $PATH" >> "$REPORT"
echo "SHELL : $SHELL" >> "$REPORT"
echo "HOME : $HOME" >> "$REPORT"
echo "" >> "$REPORT"

echo "✅ Report saved to $REPORT"
```

How to Run

```
chmod +x env_disk_report.sh
./env_disk_report.sh
```

```
echo "==== Environment and Disk Report ($TIMESTAMP) =====" > "$REPORT_FILE"

# Current user, hostname, uptime
echo -e "\n--- System Info ---" >> "$REPORT_FILE"
echo "User: $(whoami)" >> "$REPORT_FILE"
echo "Hostname: $(hostname)" >> "$REPORT_FILE"
echo "Uptime: $(uptime -p)" >> "$REPORT_FILE"

# Mounted filesystems and usage
echo -e "\n--- Mounted Filesystems ---" >> "$REPORT_FILE"
df -h >> "$REPORT_FILE"

# PATH and shell environment variables
echo -e "\n--- Environment Variables ---" >> "$REPORT_FILE"
echo "PATH=$PATH" >> "$REPORT_FILE"
echo "SHELL=$SHELL" >> "$REPORT_FILE"
```

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

(kali@kali)-[~]
└─$ ./env_report.sh

(kali@kali)-[~]
└─$ cat ~/environment_disk_report.txt

==== Environment and Disk Report (2025-07-31 00:34:54) ====

--- System Info ---
User: kali
Hostname: kali
Uptime: up 3 hours, 11 minutes

--- Mounted Filesystems ---
Filesystem      Size  Used Avail Use% Mounted on
udev            3.8G   0    3.8G   0% /dev
tmpfs           774M   1.8M  772M   1% /run
/dev/sda1       227G   23G   192G  11% /
tmpfs           3.8G   4.0K   3.8G   1% /dev/shm
tmpfs           5.0M   0    5.0M   0% /run/lock
tmpfs           1.0M   0    1.0M   0% /run/credentials/systemd-journald.service
tmpfs           3.8G   0    3.8G   0% /tmp
tmpfs           774M  124K   774M   1% /run/user/1000
tmpfs           774M   80K   774M   1% /run/user/1001

--- Environment Variables ---
PATH=/home/kali/.local/bin:/usr/local/sbin:/usr/sbin:/sbin:/usr/local/bin:/usr/bin:/bin:/usr/local/games:/usr/games:/snap/bin:/home/kali/.dotnet/tools
SHELL=/usr/bin/zsh
```