# **✓** Disk & Folder Space Monitor

A lightweight **Bash-based monitoring toolkit** for tracking disk usage and folder sizes on Linux systems (including WSL). Includes automated logging, optional email alerts, and cron job support.

### What's Included

- disk\_space\_monitor.sh : Monitors overall disk/partition usage.
- folder\_size\_monitor.sh : Logs folder sizes and available space.

## **\$\times\$** Usage Guide

#### 1. Make scripts executable

chmod +x disk\_space\_monitor.sh folder\_size\_monitor.sh

#### 2. Run manually

- ./disk\_space\_monitor.sh
- ./folder\_size\_monitor.sh

#### 3. Configure via Environment Variables (Optional)

For disk\_space\_monitor.sh;

Variable	Description	Default
PARTITIONS	Space-separated list of partitions	/
WARNING	Warning threshold (%)	80
CRITICAL	Critical threshold (%)	90
EMAIL	Email to send alerts to	(none)
LOG_FILE	Path to disk usage log	/var/log/disk_space_monitor.log
EXCLUDE_LIST	Partitions to skip	(none)

Example:

```
PARTITIONS="/ /mnt/c /mnt/d" WARNING=80 CRITICAL=95 EMAIL="admin@example.com" ./ disk_space_monitor.sh
```

```
For folder_size_monitor.sh :
```

No environment config currently. Edit the script to define:

```
FOLDERS_TO_MONITOR=("/mnt/c" "/mnt/d" "/mnt/e")
OUTPUT_FILE=~/folder_size_monitor.log
```

### Output

Disk Usage Log (e.g., | disk\_space\_monitor.log ):

```
2025-07-21 09:00:00 - / - 68% - OK
2025-07-21 09:00:00 - /mnt/c - 90% - WARNING
```

Folder Size Log (e.g., folder\_size\_monitor.log):

```
2025-07-21 09:30:00 - Folder sizes:
Checking folder: /mnt/e
3.3T /mnt/e
1.4T /mnt/e/Movies
...
Free space on /mnt/e: 405G available of 3.7T
```

# Setting up Cron Jobs

Edit crontab:

```
crontab -e
```

Example entries:

```
# Run disk monitor hourly
0 * * * * /home/youruser/projects/disk-space-monitor/disk_space_monitor.sh >> ~/
disk_cron.log 2>&1
```

# Run folder size monitor daily at 3:30 AM
30 3 \* \* \* /home/youruser/projects/disk-space-monitor/folder\_size\_monitor.sh >>
~/folder\_cron.log 2>&1

### **Email Alerts**

If EMAIL is set and mail or mailx is installed and configured, alerts will be sent when thresholds are exceeded.

To install mailutils on Ubuntu:

sudo apt install mailutils

### **Author**

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Feel free to fork and contribute!



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