Shivram Budrukkar

CRON JOBS IN LINUX — MADE SIMPLE

Automate tasks.
Schedule commands.
Work smarter, not harder.

CRONTAB

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WHAT IS CRON?

Cron = Time-based job scheduler

- It runs commands automatically at a specific time, date, or interval.
- You configure it using crontab.
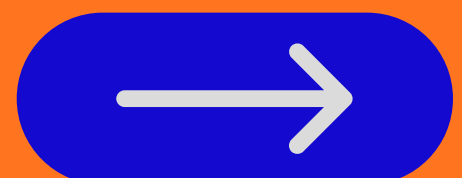
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HOW TO MANAGE CRONTAB

```
crontab -e   → edit cron jobs
crontab -l   → list cron jobs
crontab -r   → remove cron jobs
```
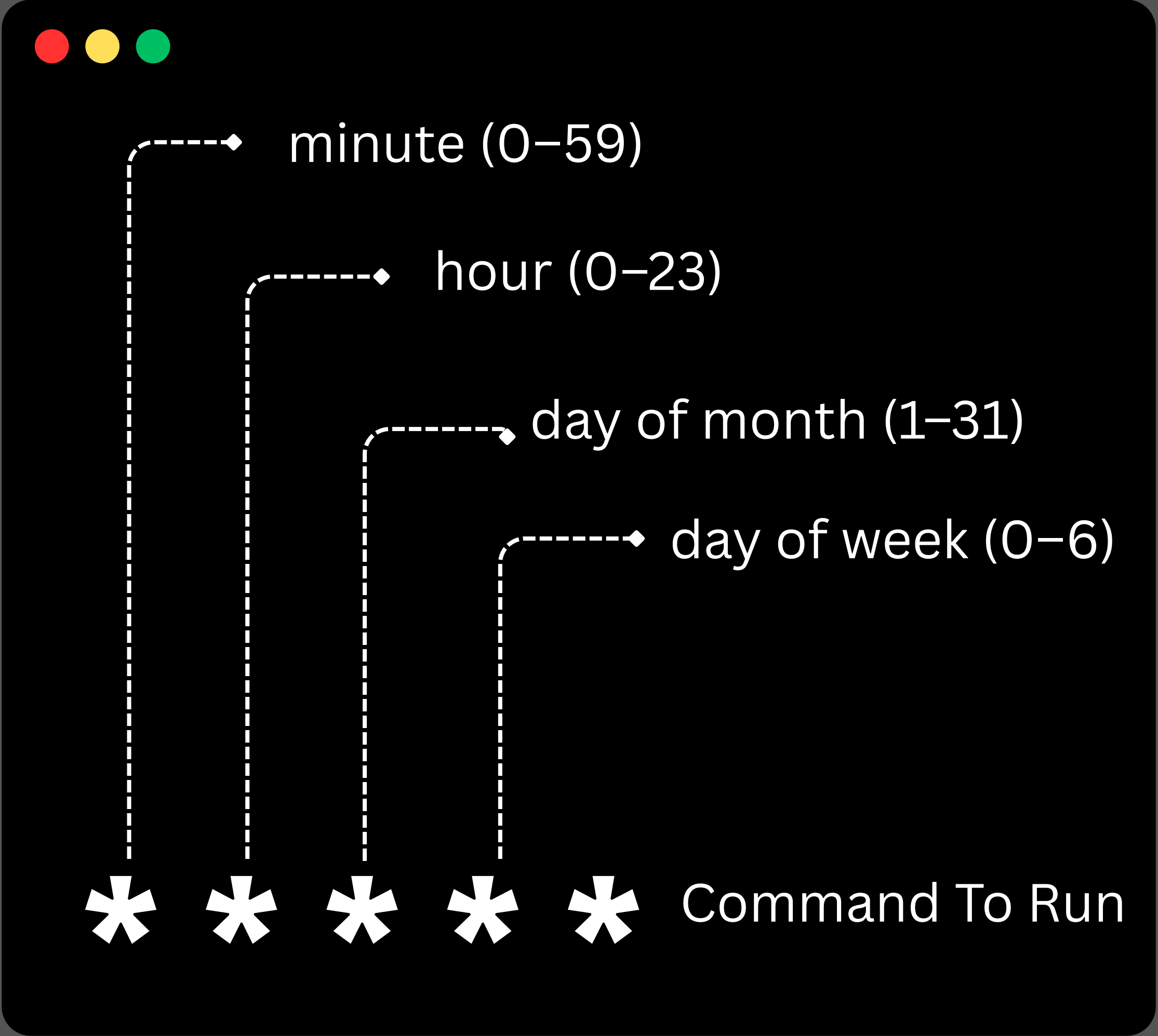
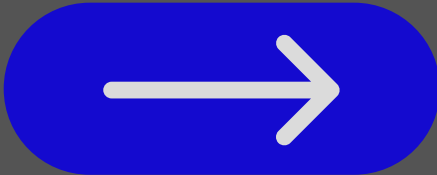Swipe Right →

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CRON JOB FORMAT

minute (0–59)

hour (0–23)

day of month (1–31)

day of week (0–6)
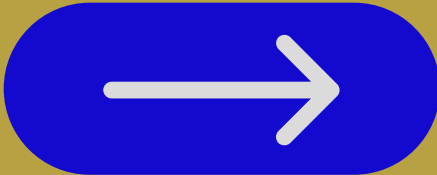
* * * * * Command To Run

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EXAMPLE CRON JOBS

```
0 5 * * * backup.sh      → Every day at 5 AM
*/10 * * * * script.sh   → Every 10 minutes
0 0 * * 0 report.sh      → Every Sunday midnight
```

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SPECIAL STRINGS IN CRON

```
@reboot     → Run once after reboot
@yearly     → Run once a year
@monthly    → Run monthly
@weekly     → Run weekly
@daily      → Run once a day
@hourly     → Run hourly
```
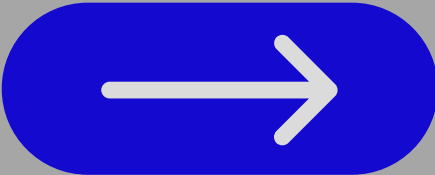
REDIRECT OUTPUT (IMPORTANT!)

```
0 2 * * * backup.sh > /tmp/log.txt 2>&1
```

ENVIRONMENT IN CRON

```
Use absolute paths:
/usr/bin/python3
/usr/bin/bash
/home/user/scripts/run.sh
```

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COMMON MISTAKES
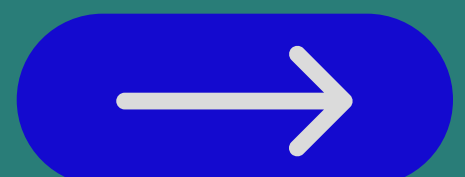
❌ Script works manually but not in cron

✓ Use full paths

❌ Permissions denied

✓ Make script executable

```
chmod +x script.sh
```

❌ Jobs not running at expected time

✓ Check system timezone

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