

Hints for Assignment 2 — Uptime & Process Toolkit

These hints will help you structure your uptime monitoring script and process toolkit effectively.

1. URL Checking

- 1 Use ``curl -s -o /dev/null -w "%{http_code},%{time_total}" URL`` to capture status and time.
- 2 Log results with timestamps using ``$(date '+%Y-%m-%dT%H:%M:%S')``.
- 3 Combine with a while loop: ``while read url; do ... done < targets.txt``.

2. Concurrency

- 1 Leverage parallel execution with ``xargs -P 3 -l{ } bash -c '...``.
- 2 Experiment with small concurrency first to ensure correctness.

3. Summary Report

- 1 Use ``awk`` to calculate success percentages and average times.
- 2 Identify slow URLs with ``sort -t, -k4,4nr logfile | head -3``.

4. Log Rotation

- 1 Check size using ``du -b logfile | cut -f1`` and rotate when `>1MB`.
- 2 Keep only 10 latest rotated logs using ``ls -t logs/*.log | tail -n +11 | xargs rm -f``.

5. Ops Toolkit

- 1 ``ps -ef | grep pattern`` for process search.
- 2 ``ss -tuln`` or ``netstat -tuln`` for open ports.
- 3 ``du -h ~ | sort -hr | head -10`` for disk usage.
- 4 Kill safely using confirmation before ``kill``.