Lab 1.3 — Netmiko Show & Persist

- Connect safely

- Run read-only commands

- Parse and store outputs

Objectives

- Use `ConnectHandler` with timeouts

- Execute vendor-specific show commands

- Parse with TextFSM where available

Steps

1. Export `NET_USERNAME` / `NET_PASSWORD`

2. Optional: `NET_SECRET` (enable) for ASA

3. Run `python day2_cli_to_data/01_netmiko_show.py`

Commands (Examples)

- IOS XE: `show version` , `show ip interface brief`
- NX-OS: `show version` , `show interface brief`
- Junos: `show interfaces terse | display json`
- ASA: `show interface ip brief`

Persist Results

- Capture stdout to file (shell redirect)

- Or adapt script to write JSON

Idempotence Check

- Re-run; output should be consistent

- Logs show timing and success per device

Troubleshooting

- Timeouts → verify host/port/reachability

- Auth → env vars

- TextFSM template missing → raw text is OK