

Capstone Orchestration

- Inventory → gather → API query → idempotent config → report
- Dry-run default; explicit apply

Components

- Inventory (`common/lib/inventory.py`)
- Gatherers (NAPALM/Netmiko/HTTP)
- Orchestrator (`day5_capstone/run_capstone.py`)

Flags & Env

- `--dry-run` VS `--apply`
- `NET_USERNAME` / `NET_PASSWORD`
- `OFFLINE=1` for fixtures

Outputs

- Per-host logs
- Consolidated report (JSON/CSV)
- Saved diffs where applicable

Demo Flow

1. Dry-run end-to-end
2. Review evidence
3. Apply against sandbox