

Lab 4.2 — Multi-Vendor VLAN + Interface

- VLAN creation/update (IOS XE/NX-OS/Junos)
- Interface description updates
- Idempotence via pre/post checks

Objectives

- Render VLAN config via Jinja2
- Apply via NAPALM merge candidate
- Update interface description via Netmiko

Steps

1. Dry-run: `python day4_multivendor_config/configure_multivendor.py`
2. Review diffs in logs
3. Apply: `COMMIT=true python ...`
4. Re-run to confirm no-op

Validation

- First run shows diffs/changes
- Second run shows “no changes”

Troubleshooting

- Platform mismatches → check inventory
- Auth/ports → env vars