### Peer Review Checklist - Kali Configuration v1.0

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**Reviewed By:**
**Reviewed On:**
**Signed:**

#### 1) Installation & Physical Setup

- Verify device label hostname on each device: `hostnamectl --static`
  - **Pass:** Name matches the plan.
- Cabling / ports match the **Network Diagram** (NIC names, switch ports)
  - **Pass:** Cables/ports match; link LEDs on.
- Confirm Netplan is installed: `dpkg -l | grep netplan`
  - **Pass**: `ii netplan.io` listed.

| Device | Pass | To Fix |
|---|---|---|
| Sender | ☐ | ☐ |
| Receiver | ☐ | ☐ |

#### 2) Packages & Tools

- Check PCs that required packages are present: `apt list --installed | grep d-itg`
  - **Pass**: `d-itg` listed.
- Check OS is up-to-date: `sudo apt update && sudo apt upgrade -y`
  - **Pass**: `All packages are up to date.` is returned when updated.

| Device | Pass | To Fix |
|---|---|---|
| Sender | ☐ | ☐ |
| Receiver | ☐ | ☐ |

#### 3) Base OS

**On each device:**

- DHCP is off in netplan: `grep -R "dhcp" /etc/netplan/*.yaml`
  - **Pass**: `dhcp4: no` and `dhcp6: no`
- Speed up networking at boot: `systemctl cat systemd-networkd-wait-online | sed -n '1,120p`
  - **Pass**: override contains `--any` and a shorter timeout (e.g., `Timeout=5`)
- Unstable Nouveau driver blacklisted & initramfs updated: `ls /boot | grep initrd`
  - **Pass**: blacklist file exists with `blacklist nouveau`; initramfs present

**Routers:**

- NetworkManager is disabled `systemctl status NetworkManager'
  - **Pass:** disabled/ masked & inactive (dead)
- **systemd-networkd installed & enabled**: `systemctl status systemd-networkd`
  - **Pass**: enabled & active (running)

| Device | Pass | To Fix |
|---|---|---|
| Sender | ☐ | ☐ |
| Receiver | ☐ | ☐ |
| Router1 | ☐ | ☐ |
| Router2 | ☐ | ☐ |

#### 4) Addressing & Routing

**On Each Device:**

- IPs correct: `ip -4 a; ip -6 a`
  - **Pass**: IPv4/IPv6 addresses match the plan for that device.
- Routes correct: `ip r; ip -6 r`
  - **Pass:** Static routes match the plan (right networks and next hops).
- Netplan applied (no pending changes): `sudo netplan get | head -n 50`
  - **Pass:** Output reflects the configured static addresses/routes (and `dhcp: no`).

**Routers:**

- Forwarding on: `sysctl net.ipv4.ip_forward net.ipv6.conf.all.forwarding`
  - **Pass**: `= 1` for both

| Device | Pass | To Fix |
|---|---|---|
| Sender | ☐ | ☐ |
| Receiver | ☐ | ☐ |
| Router1 | ☐ | ☐ |
| Router2 | ☐ | ☐ |

#### 5) Time Sync (chrony) & Validation

On Each Device:

- Config references the lab server and allows LANs (spot-check): `grep -E 'server 192\.168\.10\.1|allow 192\.168' /etc/chrony.conf`
  - **Pass:** shows `server 192.168.10.1 iburst` on Router2 and both client PCs, and `allow lines for lab subnets` on Router1.
- Tracking and sources are healthy: `chronyc tracking; chronyc sources -av`
  - **Pass:** `Leap status: Normal`
- Connectivity sanity: `ping -c2 <peer_v4>; ping6 -c2 <peer_v6>`
  - **Pass:** Replies received from expected peers (e.g., PC↔Router↔PC).

| Device | Pass | To Fix |
|---|---|---|
| Sender | ☐ | ☐ |
| Receiver | ☐ | ☐ |
| Router1 | ☐ | ☐ |

| Device | Pass | To Fix |
| --- | --- | --- |
| Router2 | ☐ | ☐ |