

Router Configuration Checklist - Kali v1.0

Created By: Larissa | Verified By: Thomas & Nathan | Date: 27/04/25 | Version: 1.0

Device	Configured By	Signature	Backup	Date Configured	Peer Reviewer	Date Reviewed
Sender						
Receiver						
Router1						
Router2						

Other Items Needed	Supplied
Smartphone for internet tethering	<input type="checkbox"/>
USB-A to USB-C cable	<input type="checkbox"/>

1) Installation & Physical Setup

Task	Sender	Receiver	Router1	Router2
Install Ubuntu (latest version at time of Development Phase)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ensure physical connections match Network Diagram	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2) Packages & Tools

Task	Sender	Receiver	Router1	Router2
Mobile tethering to update OS/install packages	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Update OS <code>sudo apt update && sudo apt upgrade -y</code>	<input type="checkbox"/>	<input type="checkbox"/>	—	—
Install Netplan <code>apt list --installed grep netplan</code>				
Mount external drive for data extraction <code>/mnt</code>	—	<input type="checkbox"/>	—	—
Install D-ITG <code>sudo apt install -y d-itg</code>	<input type="checkbox"/>	<input type="checkbox"/>	—	—

3) Base OS (All Devices)

Task	Sender	Receiver	Router1	Router2
Disable DHCP on all internal interfaces	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Blacklist nouveau + rebuild initramfs	—	—	<input type="checkbox"/>	<input type="checkbox"/>
Disable NetworkManager <code>sudo systemctl mask NetworkManager</code>	—	—	<input type="checkbox"/>	<input type="checkbox"/>
systemd-networkd installed & enabled	—	—	<input type="checkbox"/>	<input type="checkbox"/>

4) Addressing & Routing

Task	Sender	Receiver	Router1	Router2
Static IPv4 assigned	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Static IPv6 assigned	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Static routes assigned	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Apply Netplan settings: <code>sudo netplan apply</code>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Confirm IP address: <code>ip a</code>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
IP forwarding enabled (routers only)	—	—	<input type="checkbox"/>	<input type="checkbox"/>

5) Time Sync (chrony) & Validation

Task	Sender	Receiver	Router1	Router2
Chrony server configured (local stratum / allow LANs)	—	—	<input type="checkbox"/>	—
Chrony source configured: <code>server 192.168.10.1 iburst</code>	<input type="checkbox"/>	<input type="checkbox"/>	—	<input type="checkbox"/>
Verify chrony timesync <code>chronyc tracking</code>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Verify chrony sources <code>chronyc sources -av</code>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sanity check: <code>sudo netplan get</code> or <code>ip a / ip r</code>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ping each device (IPv4 & IPv6)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>