

Router Configuration Checklist - Fedora v1.0

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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 &amp;&amp; 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
<b>Disable DHCP</b> on all internal interfaces	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>Blacklist nouveau + rebuild initramfs</b>	—	—	<input type="checkbox"/>	<input type="checkbox"/>
<b>Disable NetworkManager</b> <code>sudo systemctl mask NetworkManager</code>	—	—	<input type="checkbox"/>	<input type="checkbox"/>
<b>systemd-networkd installed &amp; enabled</b>	—	—	<input type="checkbox"/>	<input type="checkbox"/>

### 4) Addressing & Routing

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

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

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