

9. Log in to your home router's web interface (usually at 192.168.1.1 or 192.168.0.1) and check the connected devices list

**For Traditional Home Routers:**

- **Step 1:** Open a web browser and enter the router's IP address (typically 192.168.1.1 or 192.168.0.1).
- **Step 2:** Log in with the router's admin credentials (usually printed on the device or provided in its manual).
- **Step 3:** Navigate to the "Connected Devices" or "DHCP Client List" section to view a list of connected devices.

**For Mobile Hotspots:**

- **Step 1:** On your mobile device (Android or iPhone), go to the hotspot settings.
- **Step 2:** Look for "Connected Devices" or similar.
- **Note:** Some dedicated mobile hotspot devices (MiFi) provide a web interface accessible via a local IP (check your device's manual).



10. Explain how a DHCP server assigns IP addresses to devices in your network.

DHCP server assigns IP address to devices through DORA Process.

**DORA Process in DHCP**

1. **Discover (DHCPDISCOVER)** – The client device broadcasts a request to find an available DHCP server.
2. **Offer (DHCPOFFER)** – The DHCP server responds with an available IP address and network configuration.
3. **Request (DHCPREQUEST)** – The client requests to lease the offered IP address.
4. **Acknowledge (DHCPACK)** – The server confirms the lease and assigns the IP along with other details like subnet mask, gateway, and DNS.