WiFi Training Program 2025

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Question-9:

List down the type of Wi-Fi internet connectivity backhaul, share your home/college's wireless internet connectivity backhaul name and its properties

Solution:

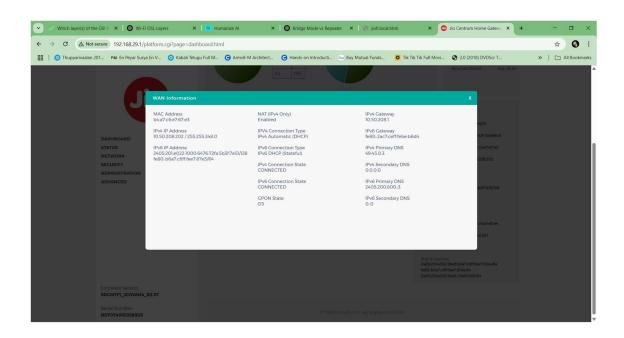
Backhaul refers to the network infrastructure that connects local access points (such as routers) to the internet or core network. Here are the main types:

1. Wired Backhaul

- Fiber Optic: High speed, low latency, long-distance capability (e.g., GPON, EPON).
- Ethernet (Copper Cable): Used in homes and enterprises, limited by cable length.
- DSL (Digital Subscriber Line): Uses telephone lines, lower speed than fiber.
- Coaxial Cable (Cable Internet): Used in cable TV networks, moderate speed.

2. Wireless Backhaul

- Microwave: High-speed, used for long-distance point-to-point connections.
- Satellite: Provides coverage in remote areas, but has high latency.
- 4G/5G LTE: Used for mobile broadband and fixed wireless access.
- LoRaWAN / LPWAN: Low-power, long-range, used for IoT applications.



So in my Jio Fiber Router:
Wired Backhaul: GPON (Gigabit Passive Optical Network): The presence of "GPON State" suggests that this router is receiving internet through fiber-optic broadband, likely from Jio Fiber.