1. Design a network Diagram &
2. Annotations

A diagram of a computer network

AI-generated content may be incorrect.

1. Justifications:

The Client access through the internet that gets routed by the router/modem which handled the traffic and determine the best route to the network destinations via the routing table. Router will send the data packet to the switch which handle the data packet , process them and forward to the appropriate device on the network. Devices such as computer, printer and server are connected to the switch via wired connection (ethernet) within LAN. When a computer looks for another device(Printer), it will send out a MAC address which is used to uniquely identify devices to the switch. The switch will then send the MAC address to the respective device and will receive an private IP Address response from the target MAC device (Printer). It will then pass the IP Address to the computer for it to establish a connection with the target device (printer).

For wireless devices connection, an additional connection such as Access point is needed to wirelessly connect with the wireless device via WiFi.