

Introduction to Wireless LAN

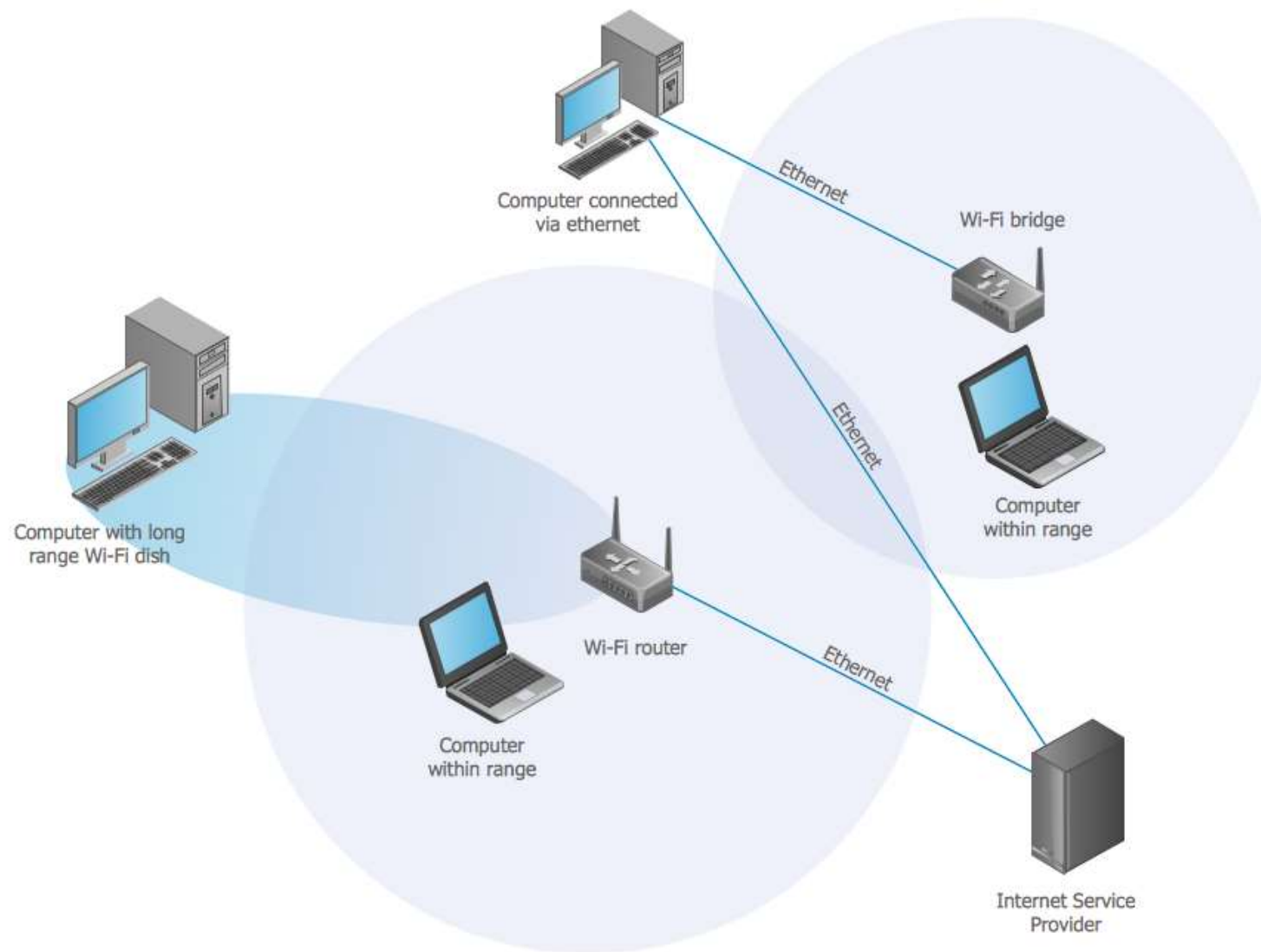


What is WLAN?

A wireless local area network (WLAN) is a group of colocated computers or other devices that form a network based on radio transmissions rather than wired connections.

A Wi-Fi network is a type of WLAN





Benefits of WLAN....

Extended reach: WLANs enable **computing** to happen **anywhere**, even when carrying high data loads and advanced web applications.

Device flexibility: A WLAN **supports** use of a **wide range of devices**, such as computers, phones, tablets, gaming systems, and IoT devices.

Easier installation and management: A WLAN **requires less physical equipment** than a wired network, which saves money, reduces installation time.

Scalability: **Easily scalable**. Adding users is as simple as assigning login credentials.

Network management: Nearly all management of a WLAN can be **handled virtually**.

Drawback of WLAN....

Slower bandwidth: Wireless LANs offer slower speeds than wired connections.

Security risk: Wireless LANs are vulnerable to unauthorized access.

Limited capacity: Wireless networks can't handle many connections.

Higher cost: Wireless setups are more expensive than wired ones.

Health concerns: Wireless devices emit potentially harmful RF radiation.