

LANs vs. WANs: Serving Different Purposes **LANs (Local Area Networks)** and **WANs (Wide Area Networks)** are fundamental building blocks of computer networks, each designed to fulfill specific needs and serve different purposes. In summary, LANs are ideal for connecting devices within a limited area, while WANs are necessary for connecting networks and devices across larger distances.###

WANs: Connecting Networks Across a Wide Area * **Purpose:** Connect multiple LANs or individual computers across a wide geographical area, such as countries, states, or continents.### LANs:

Connecting Devices within a Limited Area * **Purpose:** Connect devices within a confined geographical area, such as a home, office, or school.* Uses cables (Ethernet) or wireless technology (Wi-Fi) for connectivity.* Offers slower data transmission speeds compared to LANs due to the longer distances involved. Understanding these differences helps in designing and managing effective network

IIIIII infrastructures for various purposes. Cables, Wi-Fi