

Day 01: Session

Difference between wired and wireless networks.

WIRED VS WIRELESS NETWORK

Feature	Wired Networks	Wireless Networks
Speed	Generally faster, offering higher data transfer speeds.	Often slower compared to wired, speed can fluctuate.
Reliability	More reliable, less prone to interference.	Susceptible to interference and signal degradation.
Latency	Lower latency, better for real-time applications.	Higher latency, which can affect performance in real-time applications.
Security	More secure, as physical access to the network is required for unauthorised entry.	More vulnerable to unauthorised access and hacking.
Installation & Setup	Can be labor-intensive and more expensive; involves running physical cables.	Easier and less expensive to set up; no need for physical cables.
Flexibility & Mobility	Limited; devices need to be physically connected to the network.	High; allows for mobility and easy reconfiguration.
Range	Limited by the length of the cables.	Limited by signal range; affected by physical obstructions.
Bandwidth Sharing	Each connection has its own bandwidth.	Shared bandwidth; performance can decrease as more devices connect.
Ideal Use Case	Suitable for environments where speed and security are critical.	Ideal for areas where flexibility and ease of use are prioritised.