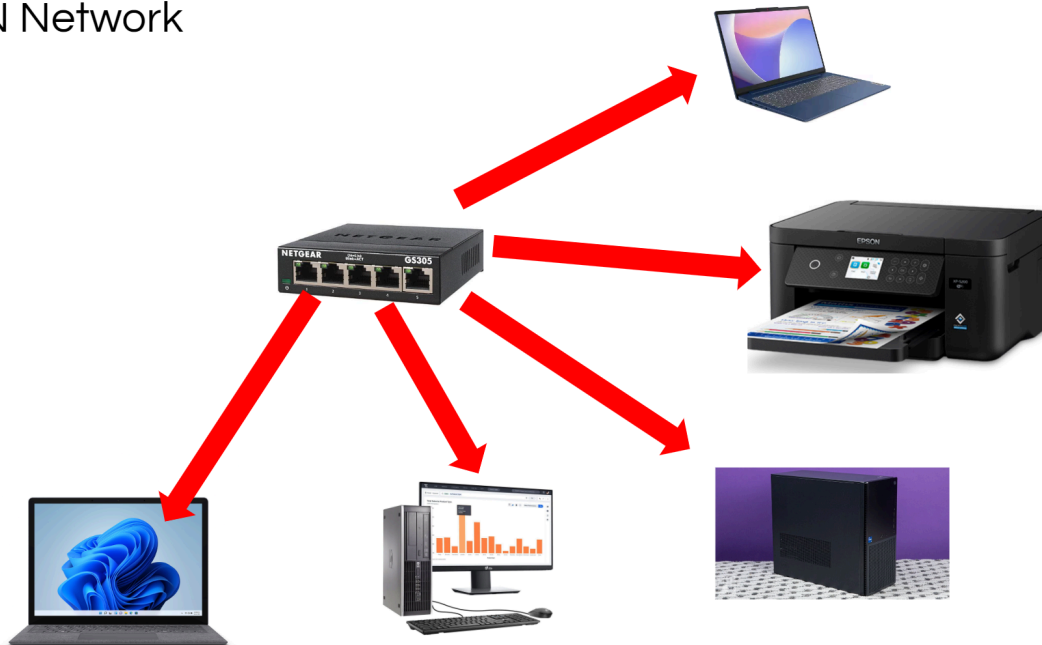


# Network Topology

## LAN Network

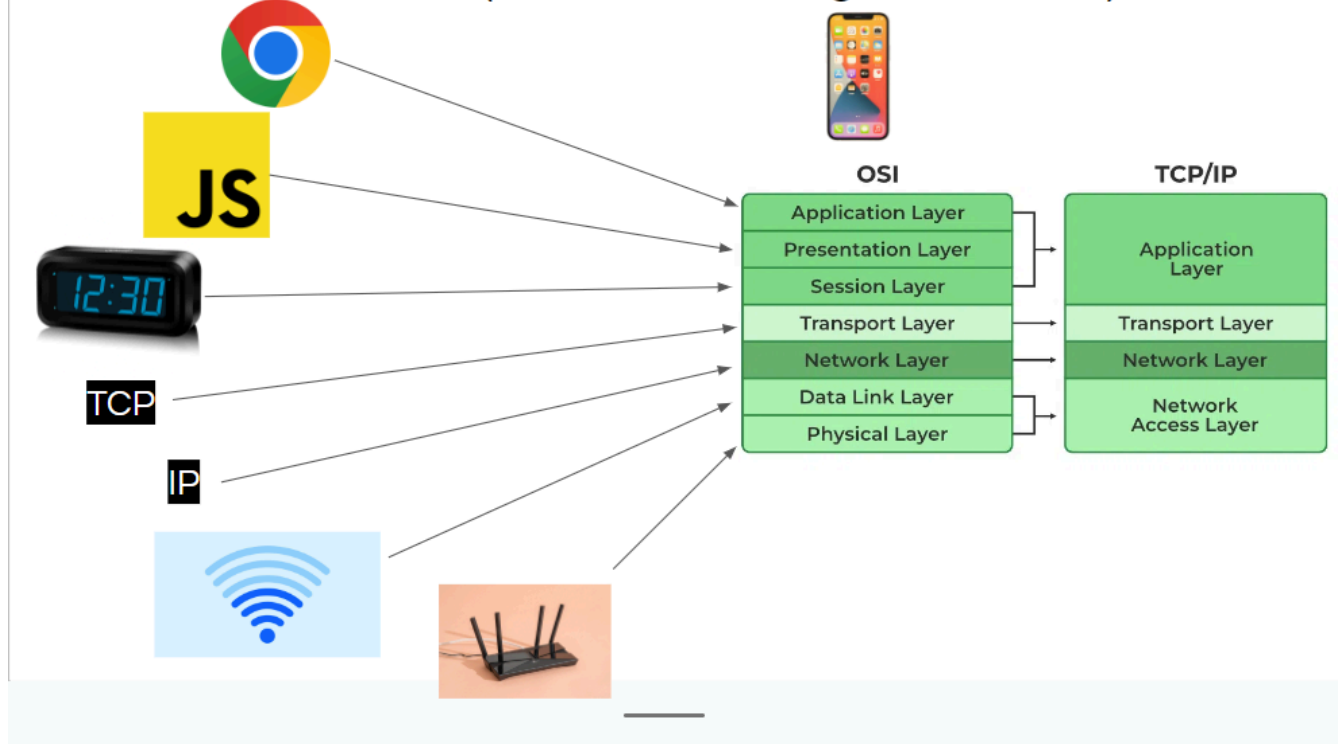


### How This Topology Supports Network Management -

In this topology, a managed switch is being used to manage all of the devices contained within the LAN network. Managed switches are commonly used to enable centralized configuration, monitoring, and device management. An admin of this network is able to remotely control devices, send files, and distribute commands to the devices connected to this network. This network allows traffic monitoring, which enables secure communication within devices through early detection and troubleshooting.

## Network Protocols and Architectures

## OSI & TCP/IP Model (Phone Accessing the Internet)



### Subnetting

Network Address: 172.25.144.0/21

Host Count: 50

Subnet Mask: /21 = 255.255.248.0

New Subnet Mask: /26 = 255.255.255.192

Subnet Range: 172.25.146.192 - 172.25.146.255

Network Address: 172.25.146.192

Broadcast Address: 172.25.146.255

## Implement Network Security Fundamentals

