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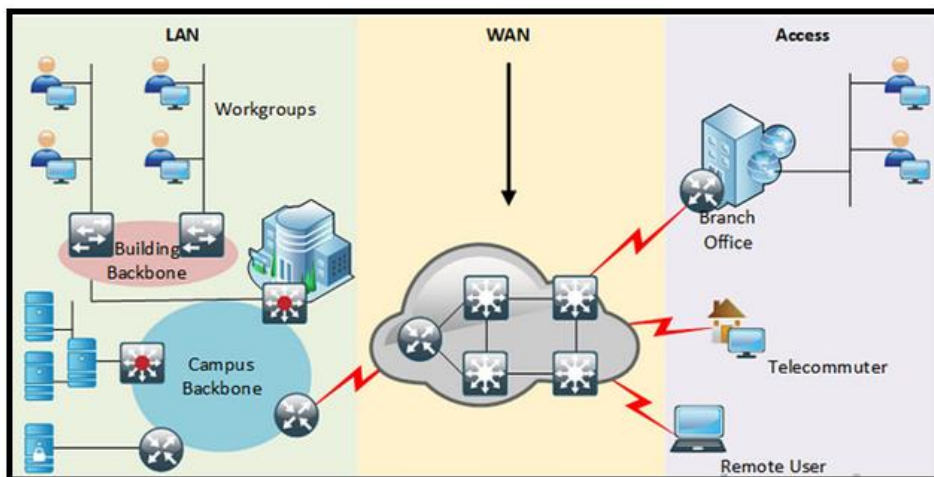
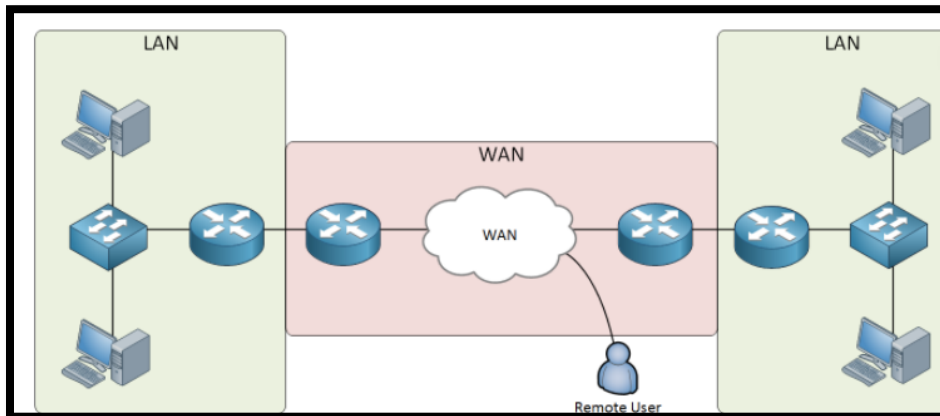
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## WAN (Wide Area Network):

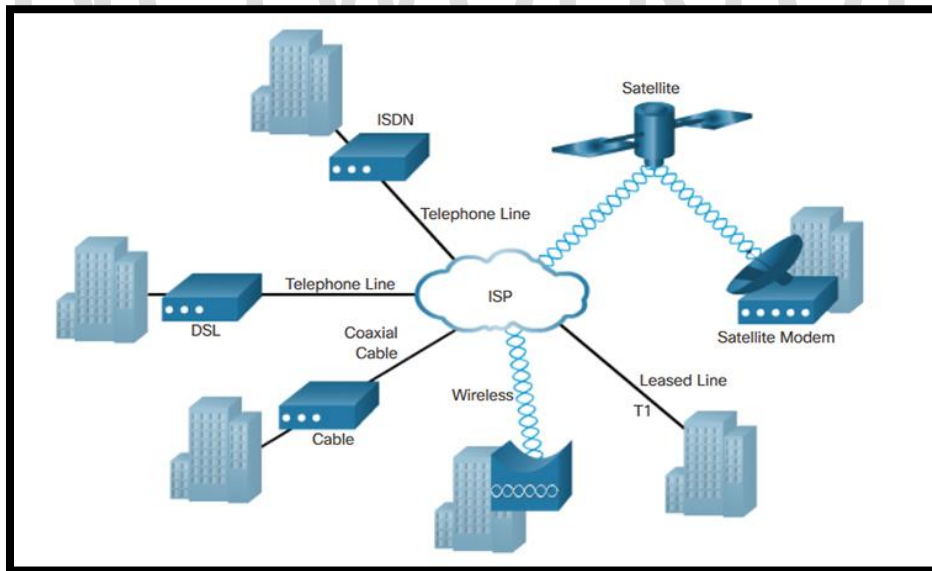
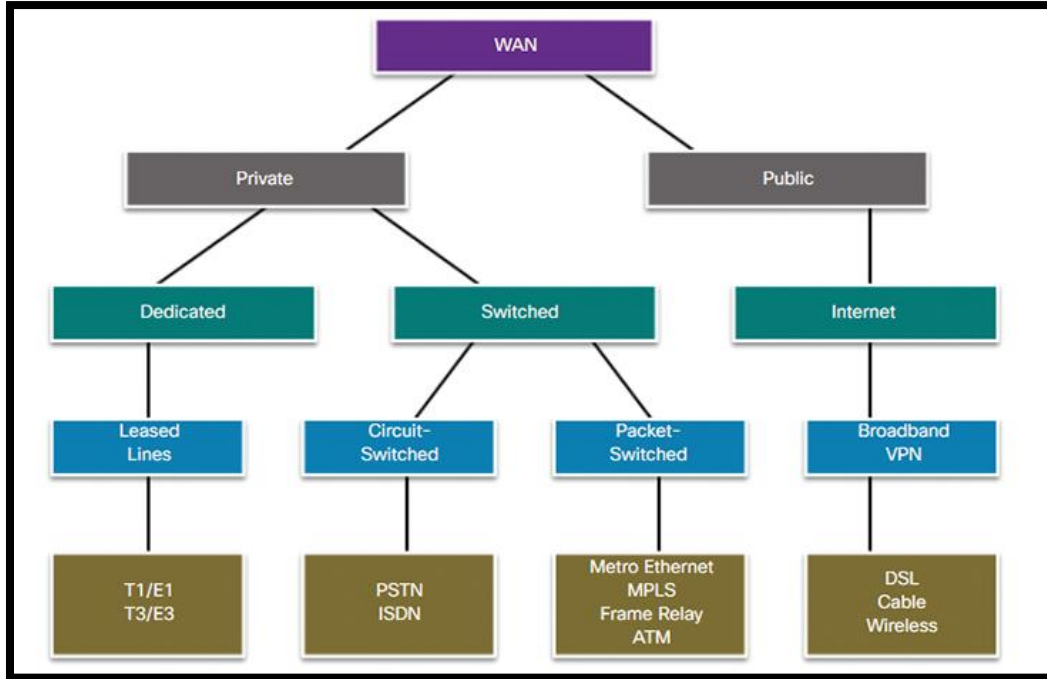
- In its simplest form, a wide-area network (WAN) is a collection of local-area networks (LANs) or other networks that communicate with one another.
- A WAN is essentially a network of networks, with the Internet the world's largest WAN
- Our own networks are called LANs (Local Area Network). We own and operate these networks.
- It's called a "local" area network since all devices that make up the LAN are close to each other.
- Perhaps in one building or a few buildings close to each other (called a campus).
- When we need access to other remote networks, connect two LANs together or give others access to our LAN, we need a WAN (Wide Area Network).
- As the name implies, WANs cover large geographical areas. This could be a network between two cities or as large as the Internet.
- WANs are operated by companies like phone/cable companies, service providers, or satellite companies. They build large networks that span entire cities or regions and lease the right to use their networks to their customers.



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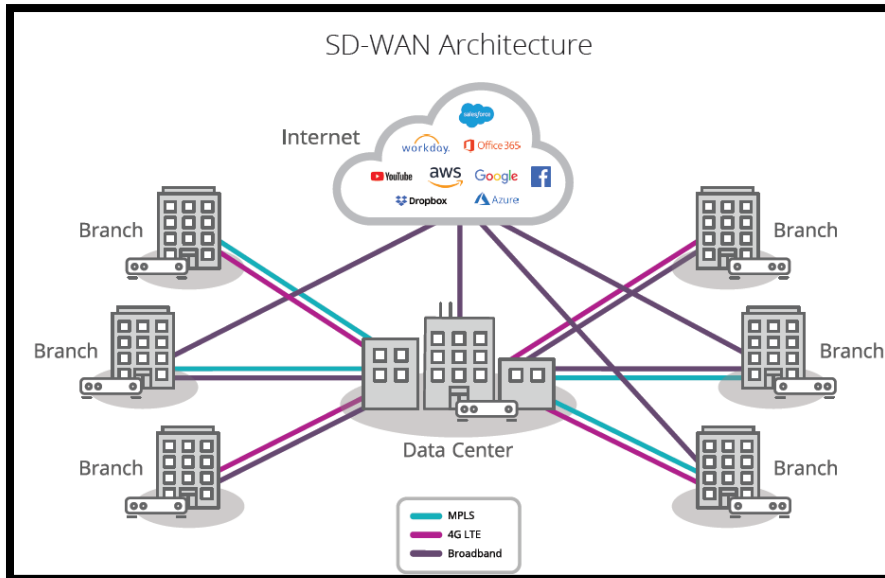
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## Types of WAN Technologies

	Topology	Speeds	OSI	CoS/QoS	Network	Technology	Cost
IPsec VPN	Point to Point, Multi-Point, Mesh	Varies	Layer 3	Low	Shared	IP	Low
SD-WAN	Point to Point, Multi-Point, Mesh	Varies	Layer 3-7	Low-High	Shared	SDN	Low-Mid
Metro Ethernet	Point to Point	10Mbps to 10Gbps	Layer 2	High	Dedicated	SONET	Low-Mid
EPL	Point to Point	10Mbps to 10Gbps	Layer 2	High	Dedicated	SONET	High
MPLS VPN	Point to Point, Multi-Point, Mesh	10Mbps to 10Gbps	Layer 2-3	Low-High	Shared	MPLS	Mid-High
EVPL	Point to Point, Multi-Point	10Mbps to 10Gbps	Layer 2	Low-High	Shared	MPLS	Mid-High
VPLS	Point to Point, Multi-Point, Mesh	10Mbps to 10Gbps	Layer 2	Low-High	Shared	MPLS	Mid-High
Wavelength	Point to Point	2.5Gbps to 100Gbps	Layer 2	High	Dedicated	DWDM	Low

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