

Network Types

CompTIA A+ Core 1 (220-1101)

Domain: 02: Networking

Objective: 2.7: Compare and contrast internet connection types, network types, and their characteristics.

Video Overview

In this video, we'll explore different network types, from personal connections to wide-reaching infrastructures, helping you build a foundational understanding of how data travels. As you watch, consider how these network types operate in your daily interactions with technology and how they might be applied in future career paths in IT.

Key Topics Covered

- **Personal Area Network (PAN):** Personal connectivity within a minimal space, typically a single person's devices.
- **Local Area Network (LAN):** A self-contained network within a single geographical location, with privately owned infrastructure.
- **Virtual Local Area Network (VLAN):** Segmentation of a single managed switch into multiple virtual networks to improve security and traffic management.
- **Wide Area Network (WAN):** Connects multiple LANs across multiple geographical locations, using both public and private links.
- **Metropolitan Area Network (MAN):** Spans a city or metropolitan area, typically not extending beyond city boundaries, often provided by ISPs.
- **Storage Area Network (SAN):** High-speed, low-latency data storage network for enterprise environments, using fiber optic communications and specialized switches.
- **Network Attached Storage (NAS):** A dedicated file server connected to the network, offering a more affordable storage solution for general network use.

Student Notes Section