

Network Plus Flashcards PDF

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What is the primary purpose of a router in a network?

The primary purpose of a router is to connect different networks and route data packets between them.

What does DHCP stand for and what is its function?

DHCP stands for Dynamic Host Configuration Protocol, and its function is to automatically assign IP addresses to devices on a network.

What is the difference between TCP and UDP?

TCP (Transmission Control Protocol) is connection-oriented and ensures reliable data transmission, while UDP (User Datagram Protocol) is connectionless and does not guarantee delivery.

What is a subnet mask?

A subnet mask is a 32-bit number that divides an IP address into a network and host portion, helping to determine which part of the address refers to the network and which part refers to the device.

What is the function of a firewall in a network?

A firewall is a security device that monitors and controls incoming and outgoing network traffic based on predetermined security rules.

What is the purpose of NAT (Network Address Translation)?

NAT (Network Address Translation) is used to translate private IP addresses to a public IP address, allowing multiple devices on a local network to share a single public IP address.

What is the OSI model and how many layers does it have?

The OSI model is a conceptual framework used to understand network interactions in seven layers: Physical, Data Link, Network, Transport, Session, Presentation, and Application.

What is the difference between a switch and a hub?

A switch is a network device that forwards data to specific devices on a network, while a hub broadcasts data to all devices on a network.

What is a VPN and what is its primary use?

A VPN (Virtual Private Network) is a service that creates a secure connection over the internet, primarily used to protect private web traffic from snooping.

What is the purpose of an access point in a wireless network?

An access point is a device that allows wireless devices to connect to a wired network using Wi-Fi.