

## Network Flashcards PDF

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What is the purpose of a router in a network?

A router connects different networks and directs data packets between them.

What does DHCP stand for?

Dynamic Host Configuration Protocol.

What is the function of a switch in a network?

A switch connects devices within a single network and uses MAC addresses to forward data to the correct destination.

What is the difference between TCP and UDP?

TCP is connection-oriented and ensures reliable data transmission, while UDP is connectionless and does not guarantee delivery.

What is an IP address?

An IP address is a unique identifier for a device on a network, used for communication.

What is the purpose of a firewall?

A firewall monitors and controls incoming and outgoing network traffic based on predetermined security rules.

What does VPN stand for?

Virtual Private Network.

What is the OSI model?

The OSI model is a conceptual framework used to understand network interactions in seven layers.

What is bandwidth?

Bandwidth is the maximum rate of data transfer across a network path.

What is a subnet mask?

A subnet mask is used to divide an IP address into network and host portions.