

Network Fundamentals

What is LAN?

Task 1:

Completed
You found all the topology
flaws
THM{TOPOLOGY_FLAWS}

What does LAN stand for?

Local Area Network

✓ Correct Answer

What is the verb given to the job that Routers perform?

Routing

✓ Correct Answer

💡 Hint

What device is used to centrally connect multiple devices on the local network and transmit data to the correct location?

Switch

✓ Correct Answer

💡 Hint

What topology is cost-efficient to set up?

Bus Topology

✓ Correct Answer

💡 Hint

What topology is expensive to set up and maintain?

Star Topology

✓ Correct Answer

💡 Hint

Complete the interactive lab attached to this task. What is the flag given at the end?

THM{TOPOLOGY_FLAWS}

✓ Correct Answer

Task 2:

What is the technical term for dividing a network up into **smaller** pieces?

Subnetting

✓ Correct Answer

How many **bits** are in a subnet mask?

32

✓ Correct Answer

💡 Hint

What is the range of a section (octet) of a subnet mask?

0-255

✓ Correct Answer

💡 Hint

What address is used to identify the start of a network?

Network Address

✓ Correct Answer

💡 Hint

What address is used to identify devices within a network?

Host Address

✓ Correct Answer

💡 Hint

What is the name used to identify the device responsible for sending data to another network?

Default Gateway

✓ Correct Answer

Task 3:

Answer the questions below

What does ARP stand for?

Address Resolution Protocol

✓ Correct Answer

What category of ARP Packet asks a device whether or not it has a specific IP address?

Request

✓ Correct Answer

What address is used as a physical identifier for a device on a network?

MAC Address

✓ Correct Answer

💡 Hint

What address is used as a logical identifier for a device on a network?

IP Address

✓ Correct Answer

💡 Hint

Task 4:

Answer the questions below

What type of DHCP packet is used by a device to **retrieve an IP address**?

DHCP Discover

✓ Correct Answer

🔗 Hint

What type of DHCP packet does a device **send once it has been offered an IP address** by the DHCP server?

DHCP Request

✓ Correct Answer

🔗 Hint

Finally, **what is the last** DHCP packet that is sent to a device from a DHCP server?

DHCP ACK

✓ Correct Answer

🔗 Hint