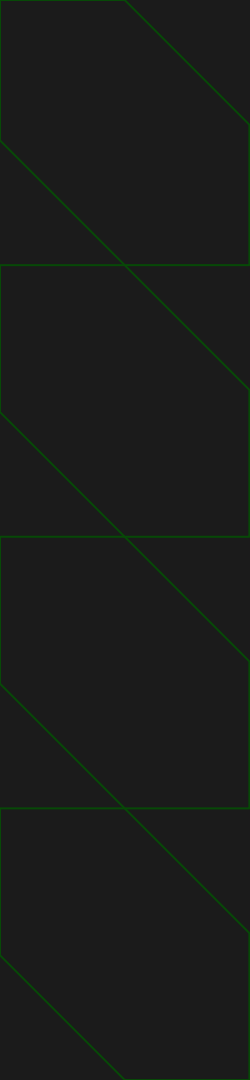


A decorative pattern of overlapping green squares and rectangles, creating a 3D effect, located in the top right corner of the slide.

Hands on #7

Presentation

Gabriel Jacobson

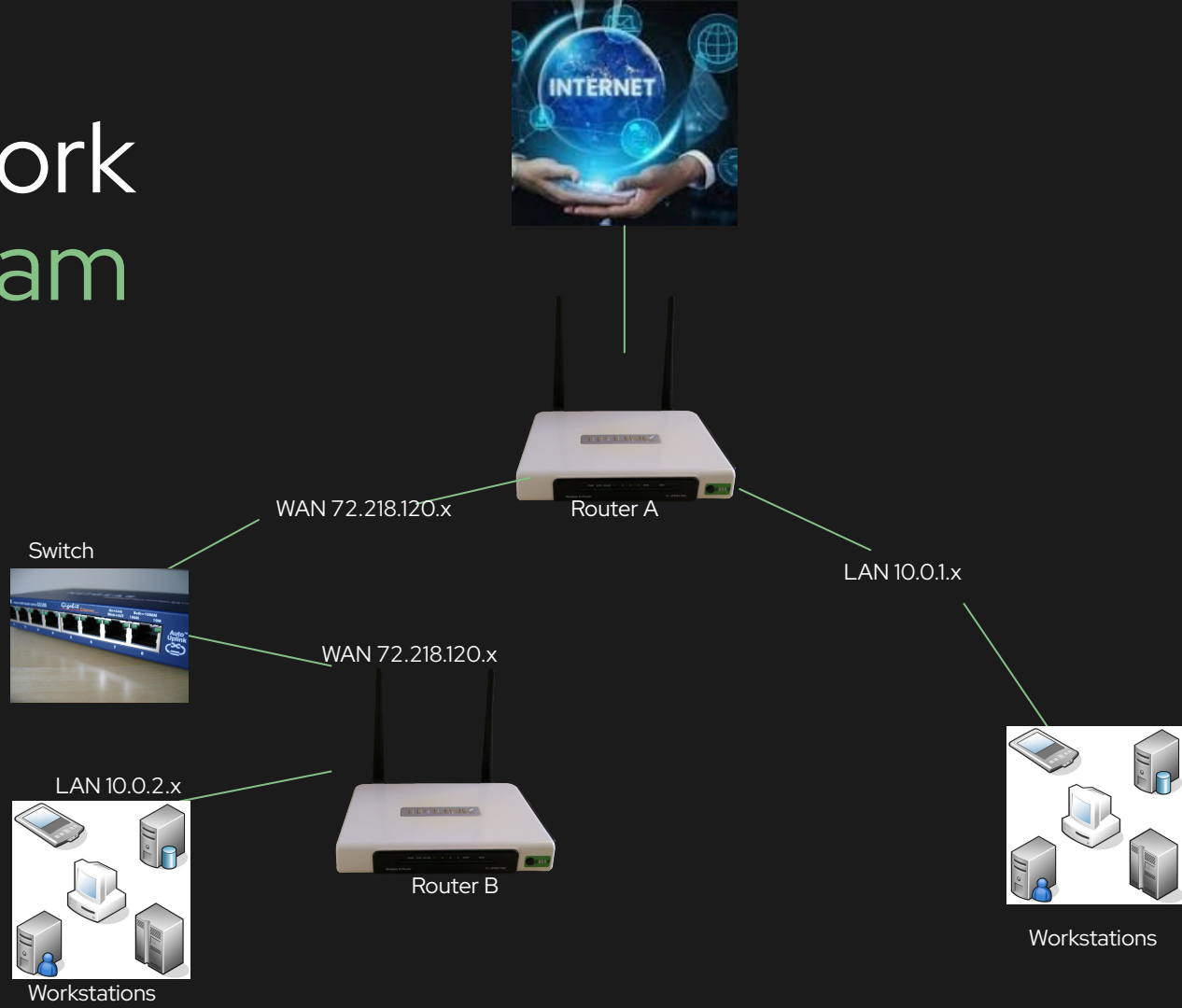


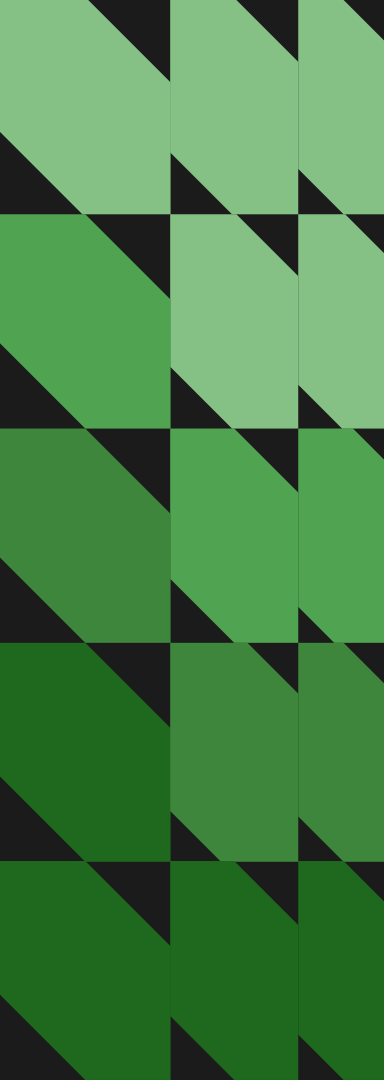
Presentation overview

The goal is to design a network that splits 100 computers into two subnets using two routers. I must show how the routers are connected, assign IP addresses and subnet masks to each router port, and create routing tables.

The goal is to make sure devices on both subnets can communicate with each other by adding the correct static routes.

Network Diagram





IP Address Configuration

Router A

- **LAN Interface**
 - IP: **10.0.1.1**
 - Mask: **255.255.255.0**
- **WAN Interface**
 - IP: **72.218.120.2** (*example ISP network*)
 - Mask: **255.255.248.0**
 - Gateway: **72.218.120.1**

Router B

- **WAN Interface (connected to switch)**
 - IP: **72.218.120.3**
 - Mask: **255.255.248.0**
 - Gateway: **72.218.120.2** (*Router A*)
- **LAN Interface**
 - IP: **10.0.2.1**
 - Mask: **255.255.255.0**



Router A Routing Table

Destination Network	Subnet Mask	Gateway	Interface
10.0.1.0	255.255.255.0	0.0.0.0	LAN
72.218.120.0	255.255.248.0	0.0.0.0	WAN
10.0.2.0	255.255.255.0	72.218.120.3	WAN
0.0.0.0	0.0.0.0	72.218.120.1	WAN

Important static route added:

- Destination: **10.0.2.0**
- Gateway: **72.218.120.3 (Router B)**



Router B Routing Table

Destination Network	Subnet Mask	Gateway	Interface
10.0.2.0	255.255.255.0	0.0.0.0	LAN
72.218.120.0	255.255.255.0	0.0.0.0	WAN
10.0.1.0	255.255.255.0	72.218.120.2	WAN
0.0.0.0	0.0.0.0	72.218.120.2	WAN

Important static route:

- Destination: **10.0.1.0**
- Gateway: **72.218.120.2 (Router A)**



THANKYOU!

Gabriel Jacobson