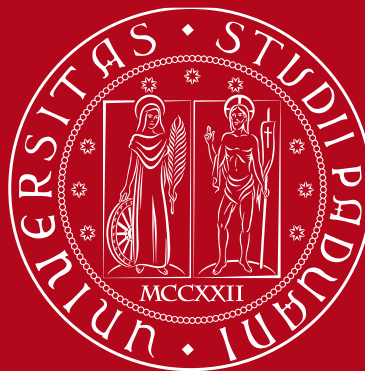
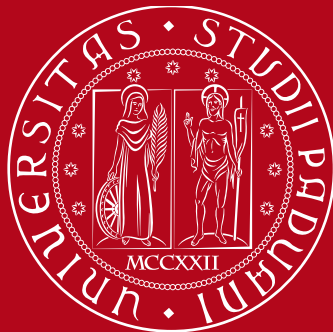


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MNS Project Presentation

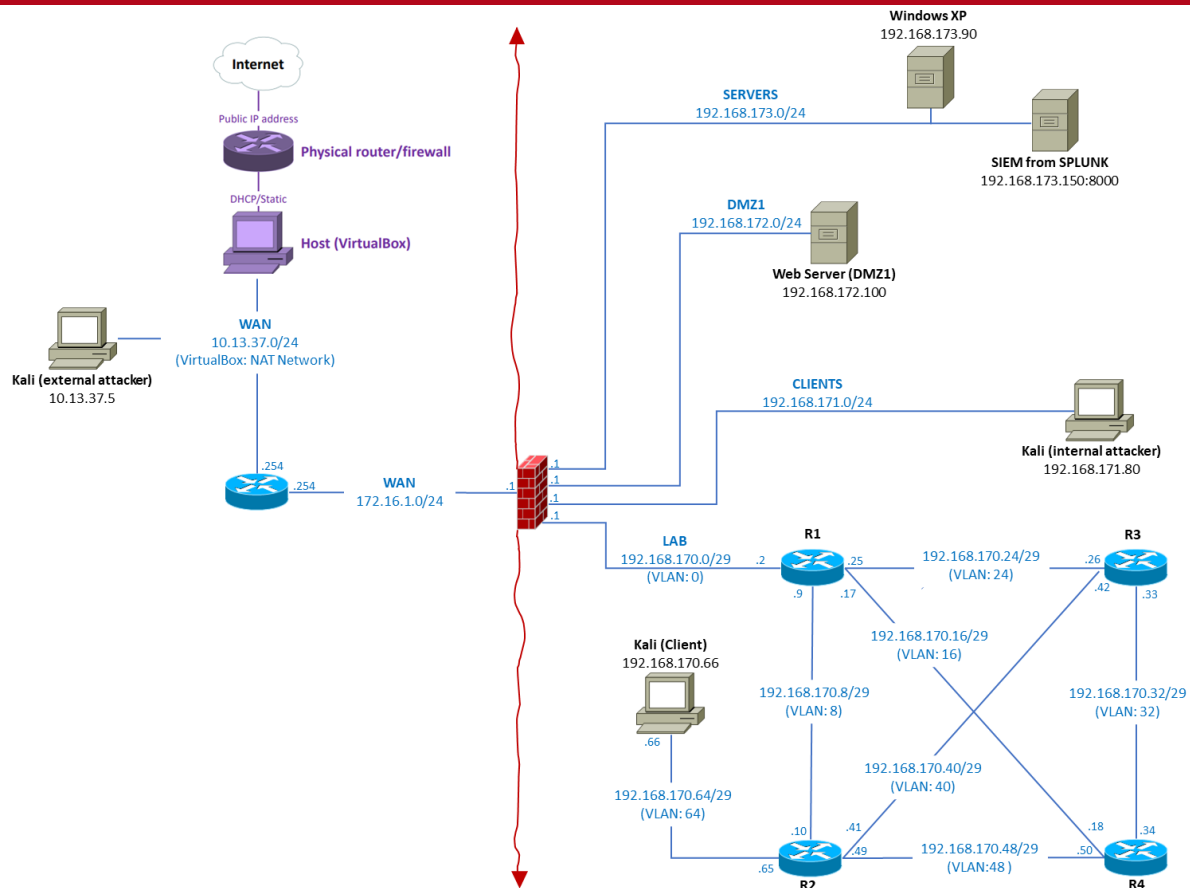
Group 7

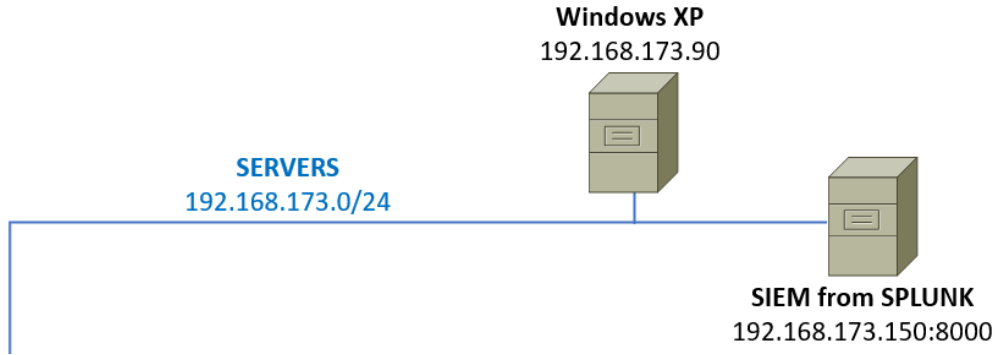
Michele Scapinello (2087617)
Giacomo Avanzi (2088615)

09/06/2023

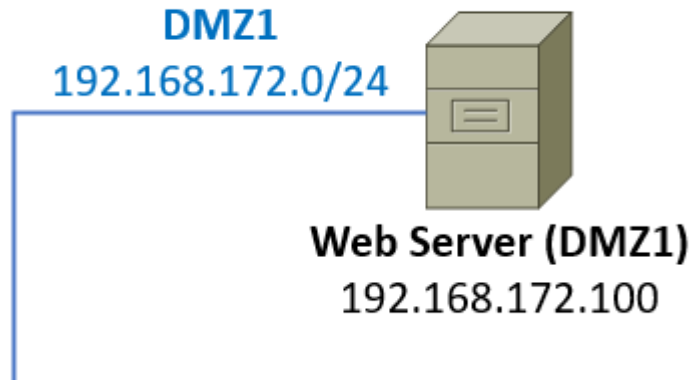
Network Topology

Overview





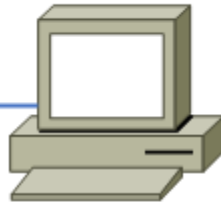
- IP addresses: 192.168.173.0 – 255
- Windows XP machine used to carry out attacks
- Splunk server used as IDS



- IP addresses: 192.168.172.0 – 255
- Webserver, used to test if DMZ1 is reachable from the WAN

CLIENTS

192.168.171.0/24



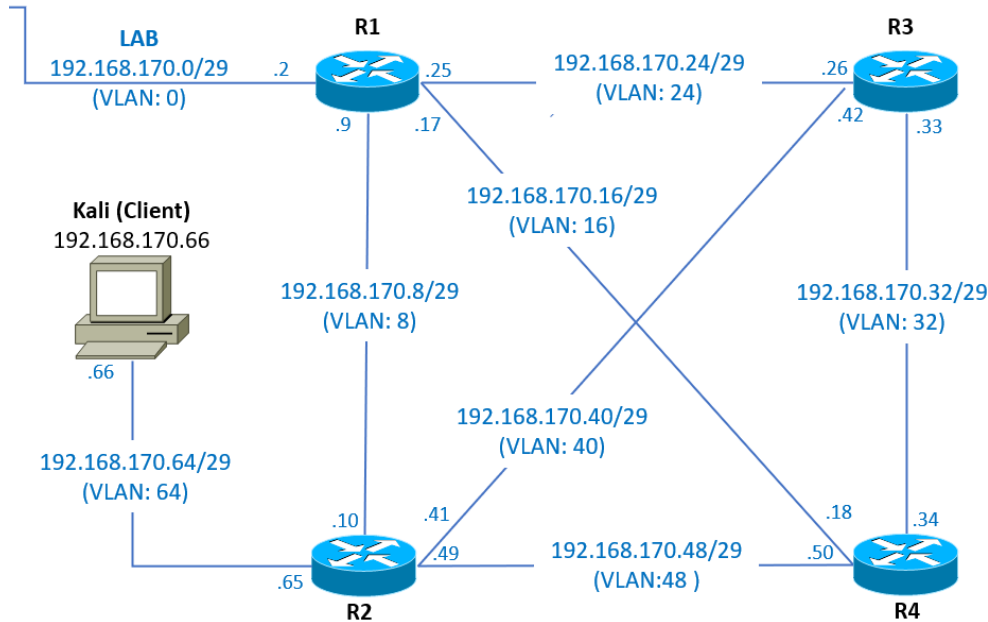
Kali (internal attacker)

192.168.171.80

- IP addresses: 192.168.171.0 – 255
- Kali PC used as internal attack to carry out attacks

Network Topology

Laboratory Segment



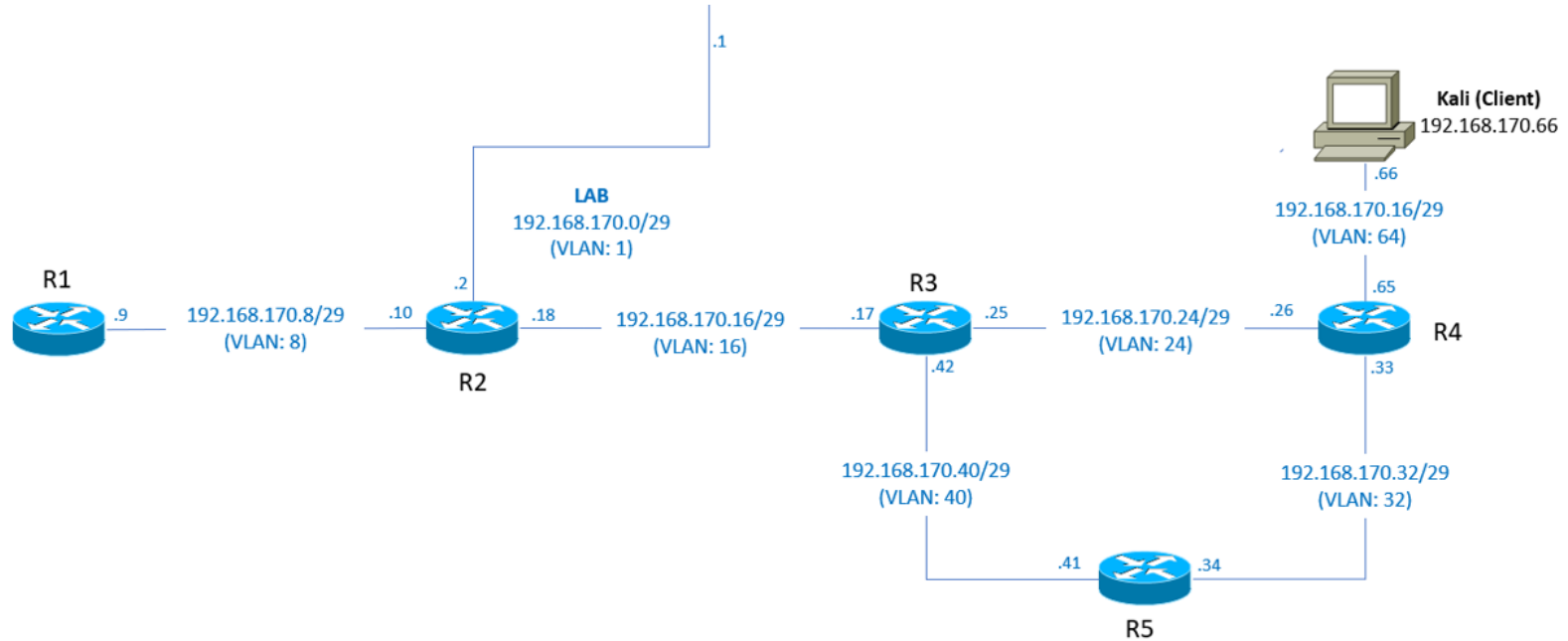
- IP addresses: 192.168.170.0 – 255
- VLAN implemented between each router link
- RIPv2 protocol implemented on each router

- **IP sweep:** detect active host within a network
- **Port scanning:** detect active TCP ports on a host
- **IP spoofing:** hide the identity of the attacker

Follows a live DEMO of these attacks and relative countermeasures

- **ICMP flood:** DoS using ICMP packets
- **SYN flood:** DoS using TCP packets
- **UDP flood:** DoS using UDP packets

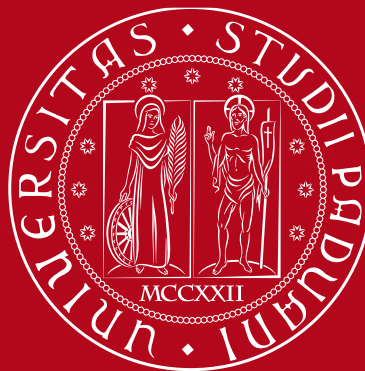
Follows a live DEMO of these attacks and relative countermeasures



- RIP Poisoning**

Follows a live DEMO of this attack and relative countermeasures

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