

Practical Exercises
Communication Systems (Rechnernetze II)
Topic ARP

1. Setup the following ip-address on your machine: 172.23.19.xxx. **Note:** don't use 172.23.19.1
2. Try to find out the MAC address of your partner knowing only his/her IP address.

On the laptop A:

3. Open the following web page: <http://172.23.19.1/password.aspx>

On the laptop B:

4. Install the necessary software (see instructions below).
5. Use the program **arpspoof** to spoof all the traffic coming from the server to the laptop A.
6. Run **wireshark** on the interface eth1 and monitor http packets. Can you see web content that user at the laptop A is currently requesting?

Steps to setup the necessary software:

- a. `sudo -s`
- b. `gedit /etc/apt/apt.conf`

Put following lines into the config file:

```
ACQUIRE {  
http::proxy "http://172.23.19.1:3128/"  
}
```

- c. `apt-get -t unstable update`
- d. `apt-get install dsniff`
- e. `echo 1 > /proc/sys/net/ipv4/ip_forward`