

Readme file

Make File:

- Download the tgz of our group from google classroom and extract it.
- In the terminal run `make loadhost` command to load all the containers of `ns@198.168.51.118`
- Run `make loadcontainers`, this will push all the required files into the respective containers.

Task2:

- To start the Server (Bob) run, `python3 secure_chat_app -s`.
- To start the Client (Aice) run, `python3 secure_chat_app -c bob1`.

Task3:

- To poison the DNS run `bash poison-dns-alice1-bob1.sh`
- To start the Server (Bob) run, `python3 secure_chat_app -s`.
- To start Downgrade attack run, `python3 secure_chat_interceptor.py -d alice1 bob1`
- To start the Client (Aice) run, `python3 secure_chat_app -c bob1`.
- To unpoison the DNS run `bash unpoison-dns-alice1-bob1.sh`

Task4:

- To poison the DNS run `bash poison-dns-alice1-bob1.sh`
- To start the Server (Bob) run, `python3 secure_chat_app -s`.
- To start MITM attack run, `python3 secure_chat_interceptor.py -m alice1 bob1`
- To start the Client (Aice) run, `python3 secure_chat_app -c bob1`.
- To unpoison the DNS run `bash unpoison-dns-alice1-bob1.sh`

Bonus:

- To perform ARP cache poisoning, run `python3 ARP_poisoning.py`