

IaS - Exercise 4

Task 1 - Routing - Are We There Yet?! AWTY?! ...

Basic Setup

We implemented for the basic setup a *peer* and a *control* node.

Peer: The *peer* implementation is divided in multiple files, located in the *peer* folder. There is a *protocol* that defines different message types that are correctly managed by the peer, *routing* is responsible to manage the routing table and to save the ip addresses of the neighbour nodes, *sender* establishes a new connection with the correct receiver node and sends the desired message to it, and *peer* is the “main programm” that listens to messages and parse them correctly.

Control: The *control* is similarly implemented, also in his folder. There is again a *protocol* for the possible messages that are managed, *commands* defines the possible commands to enter in the *cli*, that is the “main programm”, were you can enter the different commands, started by *control*.

Observation and Discussion

b) As you can see in the picture below, the ACK are market by Wireshark itself.

Task 2 - Wireshark - Snooping as a Profession

“I Spy with My Little Eye...”

TCP connection initialisation steps:

- first
- second
- third

Transmit more than packet limit:

Launch 2 messages with crossing paths:

- intersection of connections
- repeated hand-shake trials?

“Big Brother is Watching You!”

TODO [] description [x] config 2 correct [x] script to start nodes [] wireshark