



Future Internet Communication Technologies

Prof. Dr. Panagiotis Papadimitriou David Dietrich



- Read tutorial slides 2-10
- Start VM "SDNHub ODL tutorial" in VirtualBox
- Create a simple topology with *Mininet*
- Ping from h2 to h3 (single ping)
 - Reachable?
- Add flows to the switch using dpctl so that h3 can be reached from h2
- Ping from h2 to h3 (single ping)



- Read tutorial slides 10-12
- Start Wireshark for capturing packets on lo1 and s1-*
 - Start capturing in the background
- Start RYU OpenFlow controller
- Compare the messages for the connection setup with the messages listed on tutorial slide 11
 - Browse header and body of the OpenFlow messages



- Ping from h1 to h3 (single ping)
- Ping again from h1 to h3 (single ping)
- Compare the round-trip time of both pings
- If they are different, what is the explanation for that?
- Check the installed flows of the switch