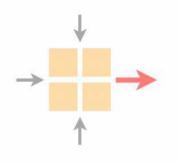
# Communication Networks Spring 2024





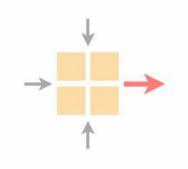
Lukas Röllin

https://comm-net.ethz.ch/

ETH Zürich

April 18, 2024

## Communication Networks Exercise 6

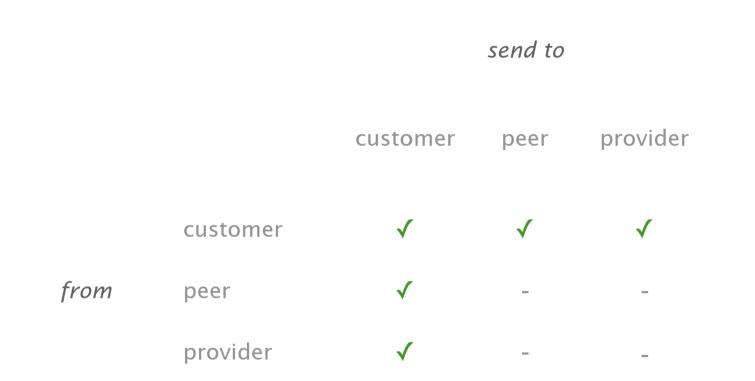


#### Important lecture topics

Introduction to this week's exercise

Time to solve the exercise

### **BGP** policies



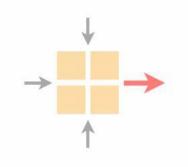
### **BGP** messages

For this exercise we define two subgroups of BGP UPDATE messages

update: Used to inform that parts of a previously advertised path have changed

withdraw: Used to inform that a previously advertised path is no longer available

# Communication Networks Exercise 6

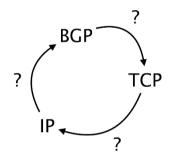


Important lecture topics

Introduction to this week's exercise

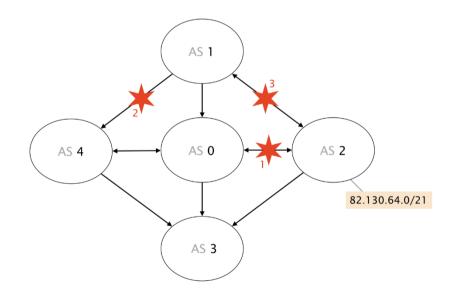
Time to solve the exercise

### Task 6.1 BGP



Only a short conceptual question regarding eBGP sessions

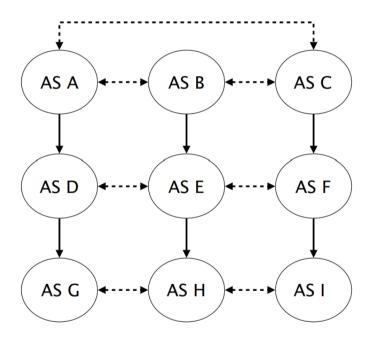
### Task 6.2 BGP under failure



Make sure to think about the BGP policies

Routes only get shared according to business relationship

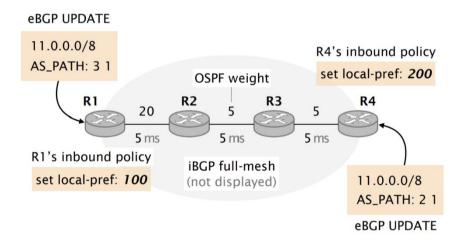
### Task 6.3 BGP visibility



Again, think about the BGP policies

Routes only get shared according to business relationship

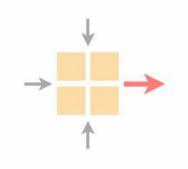
#### Task 6.4 BGP route updates



What happens when BGP advertisements change

Look at how BGP decides which path to take if local-pref is equal

# Communication Networks Exercise 6



Important lecture topics

Introduction to this week's exercise

Time to solve the exercise