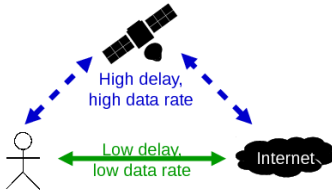


Lehrstuhl Informatik 7

Rechnernetze und Kommunikationssysteme

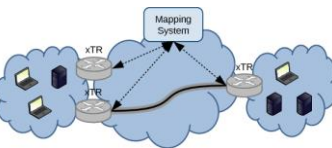
Bachelor-/Master-/Abschlussarbeit

Evaluation of Mobility Protocols for Multipath Communication



Motivation

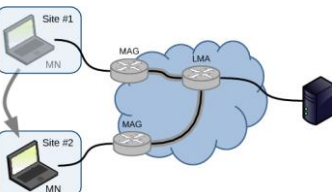
As nowadays computers and smartphones very often have multiple (possibly heterogeneous) internet access links, it is desirable to use these links simultaneously to increase data rates and reliability. For example, smartphones may use LTE and WLAN at the same time. In this context, mobility protocols are potential candidates for traffic engineering (e.g. switching a single TCP flow among different paths).



Task description

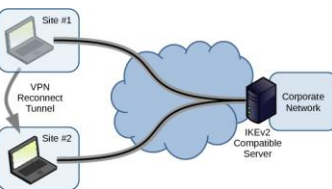
In this theses, *one* of the following mobility protocols shall be deployed and evaluated in a testbed:

- Locator/Identifier Separation Protocol (LISP), RFC6830
- Proxy Mobile IPv6 (PMIPv6), RFC5213
- IKEv2 Mobility and Multihoming Protocol (MoBIKE, "Mobile IPsec"), RFC4555

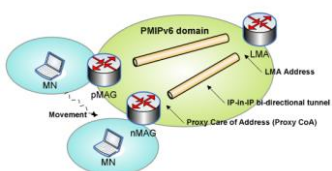


Required skills

- Solid knowledge of communication networks and protocols
- Interest in configuring, deploying and evaluating protocol implementations in a Linux testbed



This work can be done in English or German language.



Kontakt

Lehrstuhl Informatik 7 | Martensstr. 3 | 91058 Erlangen | 6. OG | www7.cs.fau.de
Jörg Deutschmann | Raum 06.157 | joerg.deutschmann@fau.de | 09131 85-27914