L8: Test, Proxy, Telephony
Test

- Write your name, student id number, group-color on paper
- Answer the questions
- No notebooks or other aids allowed.
- 20 minutes time
Proxy – exercise

- Discuss usage scenarios/applications for a proxy.
- What can be done with a proxy?
- Also discuss pro and cons.
- Time: 15min
Proxy – applications

- **Web**
  - Changing the origin (cache.ut.ee:3128)/
    Preventing access limitations
  - Speed/Chaching
  - Auditing/Logging
  - Whitelisting and blacklisting
  - Transparent Proxy → Spam and Malware checks
  - Building leveled firewalls

- **Telephony**
  - SIP forward, make firewall traversal easier

- **Mail**
  - Spam and Malware check

- **NAT Router**
Proxy – pro and cons

**pro**

- gain control over network connection
- gain speed (control resources)
- logging
- change origoin

**con**

- simplify man in the middle attacks
- single point of failure
- more effort to administer
- might be bottlenecks
Challange solution

- How do you reset or retrieve a forgotten root password in a Linux environment?
- demo
Telephony

Slide taken from “Say hell to asterisk”, Steve Sokol, digium
PBX

• Private branch exchange
• Manage internal phone calls of company
• Control
  - call forwarding
  - holding
  - reconnecting
  - mail box
VOIP

• Voice over IP
• Most popular client
  - Skype
• Protocols
  - SIP
  - Jingle
  - ...
SIP

• Session Initiation Protocol
• Voice and video over IP
• Popular Clients
  - Xten Lite
  - ekiga
  - jitsi (former SIP Communicator)
  - Built in in most Nokia Phones
  - Android: sipdroid/csipsimple
  - Iphone: iSip – Sip Phone on iPhone
  - Stand alone phones with ethernet connection (for example grandstream)
Configure Asterisk

• demo