

Homework assignment

Firm deadline on 26.03.2018

Assignment 1

- **Look at the following list of heuristics:**
 1. Users should not read files in other users' personal directories.
 2. Users must not change other users' files.
 3. Users who log in afterhours often access the same files they used earlier.
 4. Users do not generally open disk devices, but rely on higher-level operating system utilities.
 5. Users should not be logged in more than once in the same system at the same time.
 6. Users should not make copies of system programs.
- **For each of the above heuristics, provide one example showing that a user who (for some reason) violates the condition in a heuristic, does not necessarily have to be malicious.**
- *EXAMPLE:* "Users on Linux machines should not run Windows executables " — a user might execute Windows executables on Linux via a virtual machine (this is benign behavior).

Assignment 2

- **Provide three scenarios in which a firewall does not offer protection against a network attack (4 sentences for a scenario should be enough).**
- **How would you ensure that a DMZ is using only one firewall?**
- **Provide two advantages of having two firewalls (over just one firewall) to construct a DMZ?**
- **If you were to install an intrusion detection system inside of a network, between which components in the network would you place it? Motivate your answer.**