

#### SUMMARY:

Subject of this thesis is to describe contemporary possibilities in connecting school computer networks to the Internet and design appropriate security system. There are discussed possible threats of computer attacks and relevant ways of defense against them. Thesis gives reasons to choose security solution based on Linux operating system in school computer networks. Model example shows installation and services settings in order to the thesis is being usable by school computer network administrators. This model has been tested in real environment of two schools. That real life test has proven that chosen means can solve the given situation.