

This publication directly follows the bachelor thesis. It contains necessary theory of HTTP, SMTP and some other protocols and services. This knowledge is then used to draw a methodology to build additional tests to verify availability and functionality of basic Internet services of a domain name. This methodology is then implemented as an application that uses distributed processing to analyse a large number of domains. Obtained results are then compiled into statistical outputs. One chapter is also devoted to overview of the attacks on DNS and security options of DNS servers and domain records.