Assignment 6
11.11.2015

SMTP Antispam Filter

Purpose:

In this assignment, a filter will be added to the SMTP gateway from previous exercises. The purpose of this filter is to develop a basic anti-spam scan on incoming email.

The filter in question will be compatible with DNSBL. DNSBL servers identify lists of IP which are considered sources of spam. The filter needs to query at least one of these servers to see if the IP sending the email is "acceptable."

Notes:

The advantage of DNSBL is that it uses the DNS protocol, so you can perform a query using the DNS tools of the language. For example:

> host -t A "1.18.218.80.dnsbl.sorbs.net"
1.18.218.80.dnsbl.sorbs.net   A   127.0.0.10

> host -t A "1.18.218.83.dnsbl.sorbs.net"
1.18.218.83.dnsbl.sorbs.net does not exist (Authoritative answer)

Because the first address resolved, it means that the IP 80.218.18.1 was found in the DNSBL. The second address, as it didn't resolve, indicates that 83.218.18.1 isn't blacklisted.

References:

DNSBL: http://en.wikipedia.org/wiki/DNSBL

Hand-In:

The source files and project files must be submitted to the appropriate Ilias assignment. This particular assignment will not require a demonstration.

Deadline:

 One week - 18.11.2015 – before class (14:00)