THE IMPLEMENTATION OF INTERFACE TO SQUID PROXY FOR CONTENT FILTERING USING ICAP

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Abstract

ICAP (Internet Content Adaptation Protocol) is a RPC (Remote Procedure Call) protocol based on HTTP, designed to filter specific content. ICAP can be integrated with other software such as antivirus and URL filter. ICAP allows client, proxy server, to redirect HTTP based content, like HTML, to ICAP server for content adaptation process before being forwarded to client. The process of filtering and adaptation carried out in accordance with the script provided.

Squid is a proxy server, has the primary function as a bridge to a request from a network to outside networks. Certainly all the requests that led to the outside network will be through the squid proxy in advance, making it possible to perform filtering on the contents requested by the user.

By creating an interface to the Squid proxy, web pages that contain large images and the potential burden on bandwidth can be adapted before it reached the user. Results of adaptation in the form of web pages that contain only small images. Users still be given the option to display the filtered image if desired. It is expected that this system can reduce the burden on the proxy.

Keywords : ICAP, content filtering, content adaptation, proxy server