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General description

Our filtering solution helps the operator to save on development and support of a solution of his own. It has several advantages over a proxy server. Additionally, the operator gets the platform that enables him to save resources and get an income by providing new value added services.

Required components:

1. Deep Traffic Analysis Platform (DPI)

Advantages:

1. Easy to use:
    1. all rules are applied at one place: on DPI platform;
    2. the platform loads and applies rules from lists by itself.
2. Productivity:
    1. the list includes up to 4 billion URL. Its representation in memory is compressed;
    2. provides filtering of up to 2 million URL per second on one CPU kernel;
    3. traffic capacity up to 40 Gb per second per one CPU;
    4. unlimited scaling by simple installation of additional servers;
    5. propagation delay is less than 30 µs.
3. Functionality:
    1. http and https support. Other protocols can be added;
    2. filtering for HTTP proxy is supported (including Opera Turbo/Mini);
    3. the software can consider or ignore the port number (i.e. block http://www.example.com и http://www.example.com:8080 together or separately);
    4. does not depend on IP address changes;
    5. redirection instead of blocking is supported for http;
    6. incapsulation of VLAN, QinQ, MPLS is supported;
    7. support of asymmetric traffic routes, including processing of outbound traffic only;
    8. support of mirrored traffic;
    9. provides many other useful capabilities, unlike dedicated filtering solutions.
4. "Four nine's" reliability:
    1. works 24×7 with no breaks and service delays;
    2. uptime of the systems already installed is many months;
    3. the Bypass mode is supported to calm the operator.
5. Cost saving:
    1. DPI runs on a general purpose computer;
    2. support costs are almost zero - everything is automated;
    3. no need to waste money and time to develop and support own solution;
    4. a proxy hardware would cost much more to achieve the similar traffic capacity.