How to configure DNS based FortiGuard web filtering with FortiOS v5.4

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Products

FortiGate v5.4

Description

This article provides a sample configuration for DNS based FortiGuard web filtering.

In FortiOS v5.2 the DNS web filtering is one option of 'Web Filter' profile. In FortiOS v5.4 this feature has moved to separate 'DNS Filter' security profile.

The use of this feature is straightforward:

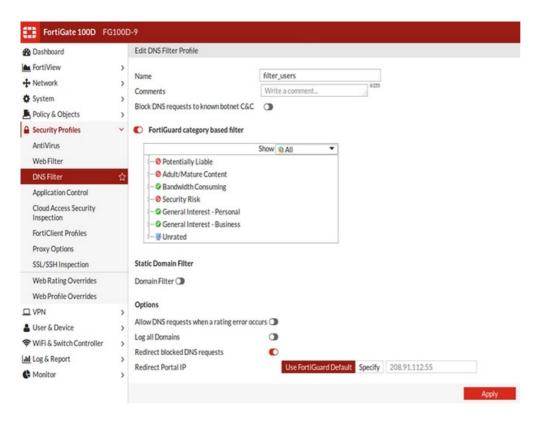
- Create and configure 'DNS Filter' profile
- Create and configure firewall policy
- Assign the profile to the firewall policy

FortiOS intercepts DNS requests from clients to DNS servers and asks FortiGuard servers for rating.

It is recommended to filter client's DNS requests only and not the DNS requests from client internal DNS servers.

Technical Note: How to configure DNS based FortiGuard web filtering with FortiOS v5.4





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```
CLI
    config dnsfilter profile
      edit "filter_users"
         config ftgd-dns
           config filters
              edit 1
                set category 83
                set action block
              next
              edit 2
                 set\ category\ 5
                 set action block
              next
              edit 3
                set category 1
                set action block
              next
              edit 4
                set category 6
                set action block
              next
              ... truncated ...
                 edit 29
              next
           end
         end
      next
    end
```

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Configure firewall policies



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```
config firewall policy
      edit 1
        set srcintf "lan"
         set dstintf "wan1"
         set srcaddr "LAN"
         set dstaddr "myDNS1" "myDNS2"
         set action accept
        set schedule "always"
         set service "DNS"
         set utm-status enable
         set\ dns filter-profile\ "filter\_users"
        set profile-protocol-options "default"
         set nat enable
      next
      edit\ 2
         set srcintf "lan"
         set dstintf "wan1"
         set srcaddr "LAN"
         set dstaddr "all"
         set action accept
         set schedule "always"
         set service "HTTP" "HTTPS"
        set nat enable
      next
    end
To troubleshoot use the following command:
    diag debug enable
    diag debug application dnsproxy -1
```

When finished, disable debug with:

diag debug reset diag debug disable

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