# 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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Network topology

Internet w/ DNS servers === (wan1)[FG100D](lan) === PCs in LAN

Configure DNS filter

-9
Edit DNS Filter Profile
Name filter_users Comments Write a comment
Static Domain Filter Domain Filter Options Allow DNS requests when a rating error occurs Log all Domains Redirect blocked DNS requests Redirect Portal IP Use FortiGuard Default Specify 208.91.112.55 Apply

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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 dnsfilter-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 - I

When finished, disable debug with:

diag debug reset diag debug disable

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