

kaspersky

Kaspersky Network Security Threat Data Feeds for FortiGate

Version 2.0

Introduction

Network security controls – Next Generation Firewalls (NGFW), as a rule, possess the functionality of filtering DNS/Web traffic using external dynamic lists of IoCs.

Kaspersky offer dynamic lists, specifically designed to be used in such security controls.

Kaspersky Network Security Threat Data Feeds

Dynamic lists of IoCs from Kaspersky for network security controls are based on Kaspersky Threat Intelligence Data Feeds and contain regularly updated lists of IoCs of various types (IP addresses and domains). Using those lists it is possible to monitor/block user access to dangerous network resources.

The following lists of indicators are available:

| Name | Type | Description | URI | Update frequency |
|-----------------|------|--------------------------------|---|------------------|
| Dangerous IPs | IP | List of dangerous IP addresses | https://tip.kaspersky.com/api/feeds/dangerous_ips | 20 |
| Malicious URLs | URL | List of malicious domains | https://tip.kaspersky.com/api/feeds/malicious_domains | 20 |
| Phishing URLs | URL | List of phishing domains | https://tip.kaspersky.com/api/feeds/phishing_domains | 20 |
| Botnet CnC URLs | URL | List of botnet C&C domains | https://tip.kaspersky.com/api/feeds/botnet_domains | 60 |

In order to download the lists above (including direct downloading into network security controls) you will need an API token for Kaspersky Threat Intelligence Portal: https://tip.kaspersky.com/Help/Doc_data/en-US/ManagingAPItoken.htm (after clicking the link, close the authorization window that appears to proceed to the help page). You may request it in your account on Kaspersky Threat Intelligence Portal. After that make sure your token is configured for downloading dynamic lists of IoCs for network security controls (ask your Technical Manager or send the request to intelligence@kaspersky.com).

You may test downloading the lists using cURL utility (below is the syntax for Linux):

```
curl -v -u api_token:<YOUR API TOKEN> https://tip.kaspersky.com/api/feeds/dangerous_ips?limit=100
```

Configuring Kaspersky Network Security Threat Data Feeds in FortiGate NGFW

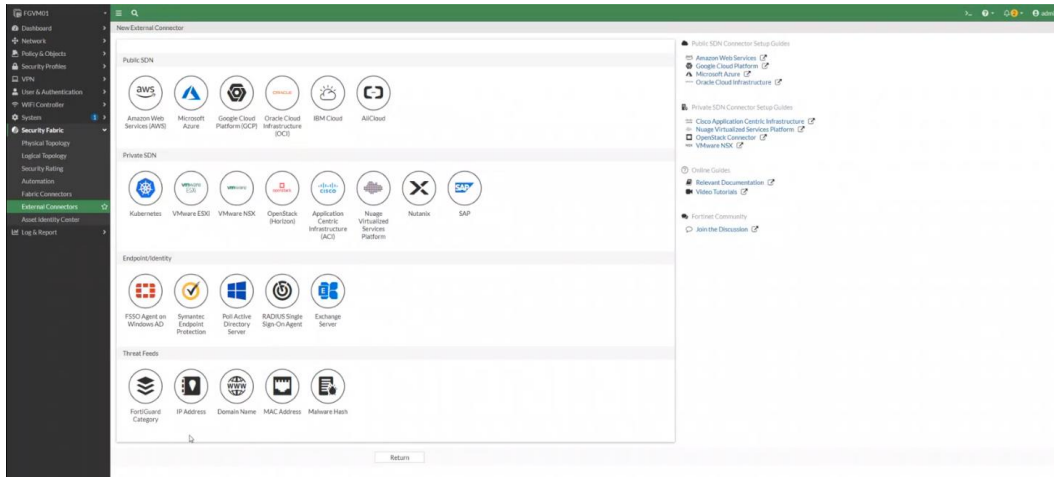
FortiGate NGFW is based on FortiOS operation system. Starting from the version 6.0 FortiOS supports external dynamic lists of IoCs in the form of updateable text files located on a web server, accessible via HTTP/HTTPS.

After importing IoCs into FortiGate it is possible to use them in various policies depending on IoC type: Web Filter, DNS Filter, Antivirus Profile, and also as Source/Destination in IPv4 and proxy policies.

The detailed description and the examples are specified in the official Fortinet documentation:

<https://docs.fortinet.com/document/fortigate/7.4.1/administration-guide/9463/threat-feeds>

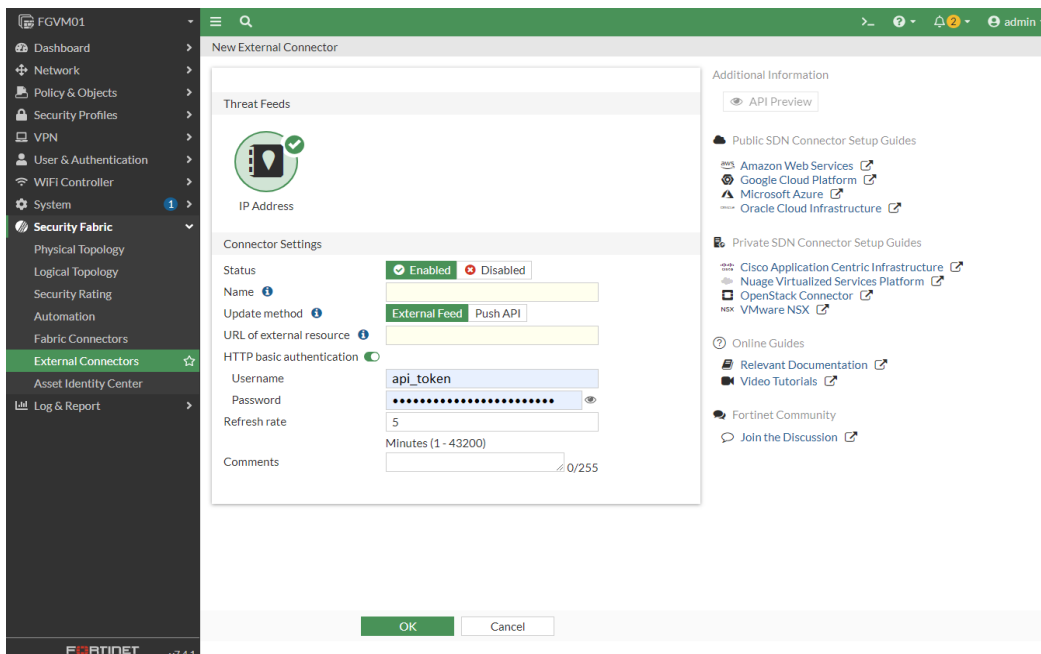
In order to add new source of dynamic lists into FortiGate, it is required to open the section **Security Fabric > External Connectors** and press **Create new**.



Then it is needed to select the Connector type depending on the IoC type:

- IP address – for IP Address list.
- Domain name or FortiGuard Category Based Filter – for URL list.

It is possible to create any number of dynamic lists in FortiOS without limitation.



Set the values for the following parameters:

- **Name** – list name e.g., Dangerous IPs List
- **URI of external resource** – the link to the list on Kaspersky Threat Intelligence Portal, e.g. https://tip.kaspersky.com/api/feeds/botnet_domains?limit=130000

limit – the threshold on the number of IoCs actually being downloaded. This parameter is optional, however it is recommended to use it in order to fit the allowed list capacity. Otherwise all available IoCs will be downloaded and it may not be accepted by the appliance.

Maximum allowed dynamic list size for FortiGate is: 10 MB or 128×1024 (131072) IoCs. So it is recommended to set limit=130000. The actual number of downloaded IoCs can be less, it depends on the number of available IoCs of certain type.

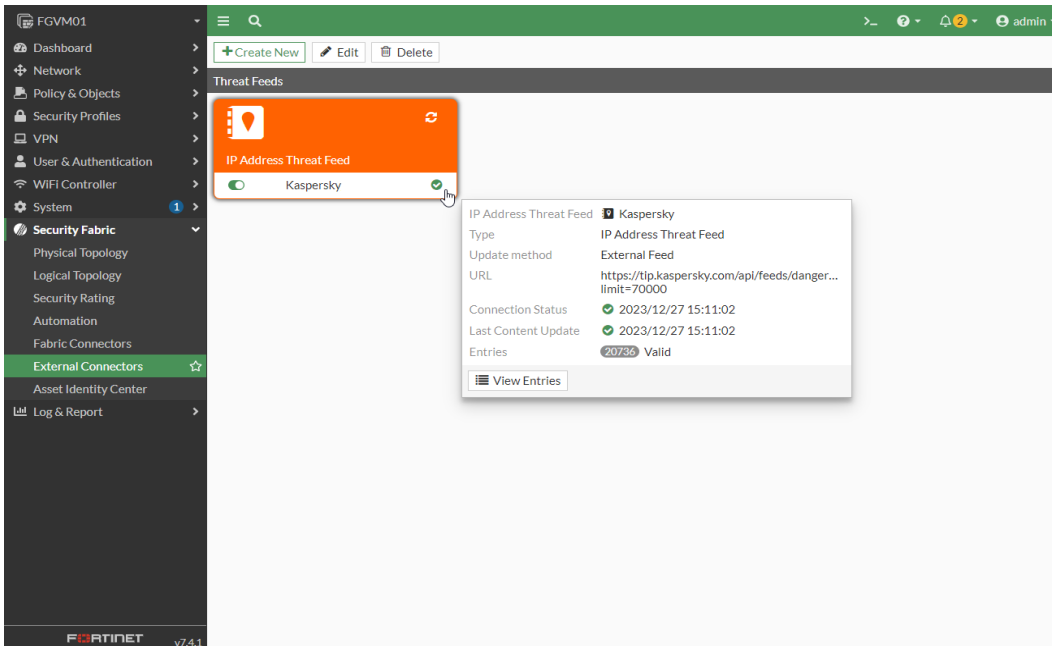
The full API specification for downloading dynamic lists of IoCs is available on Kaspersky Threat Intelligence Portal online documentation: <https://tip.kaspersky.com/Help/api/?specId=tip-feeds-api> (after clicking the link, close the authorization window that appears to proceed to the help page).

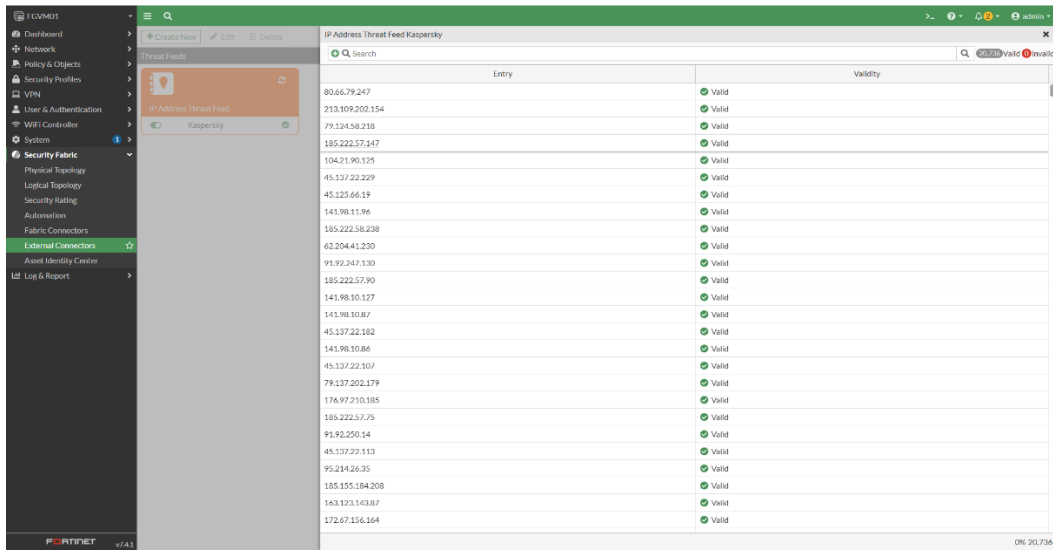
- **HTTP basic authentication** – switch on for authorization via API and specify your Username and Password:

| | |
|-----------------|--|
| Username | api_token |
| Password | Your API token requested from your account in Kaspersky Threat Intelligence Portal |

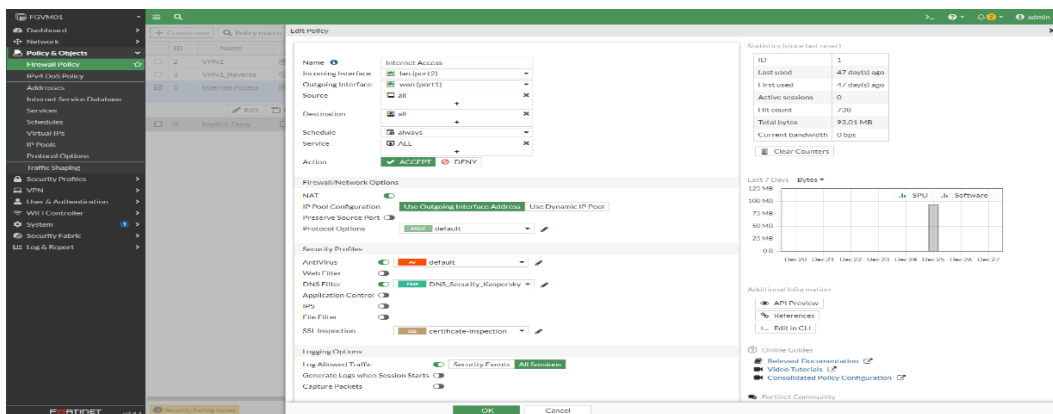
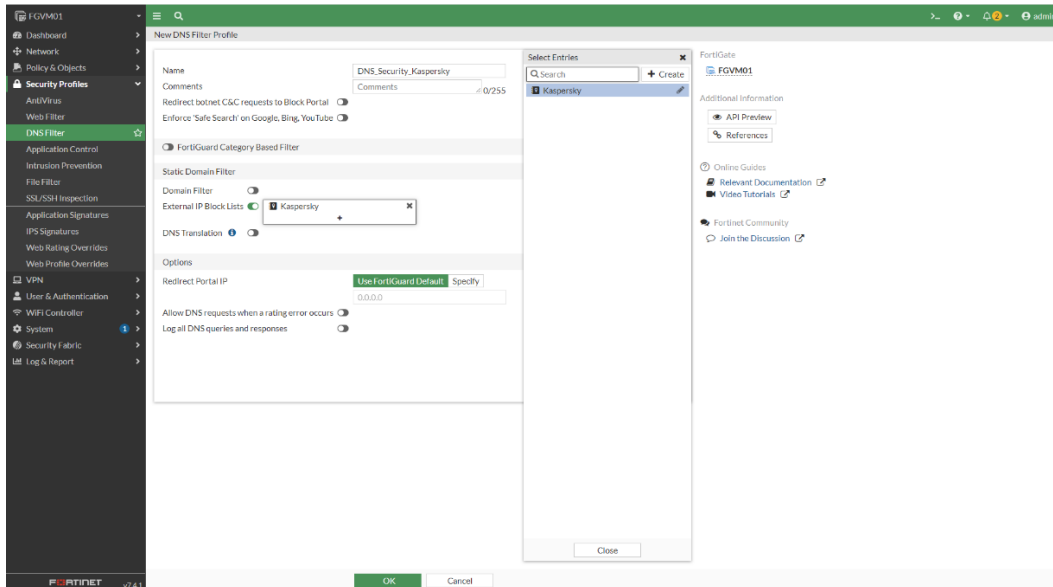
- **Refresh rate** – list update frequency in minutes (see recommended values in the table above)
- **Comments** – comments (the field is optional)
- **Status** – switch on

After filling in all the required settings press “Ok”, the connector will be created:





After importing the list it is possible to use it in policies such as Web Filter, DNS, Firewall, Antivirus profile, and also for Source/Destination in IPv4 and proxy policies:



For proper feeds functioning, do not enable **FortiGuard Category Based Filter** concurrently in several profiles of DNS filter (default profile and additionally created profiles).

