

# ThreatQuotient



## Fortinet Fortigate Exports Guide

Version 1.0.0

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**ThreatQuotient**

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ThreatQ Supported

### Support

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# Contents

- Export Details..... 5
- Introduction ..... 6
- Prerequisites..... 7
- Creating the Export..... 8
- Configuring FortiGate ..... 11
  - Configure FortiGate to Download Indicators from ThreatQ..... 11
  - Blocking Malicious Domains using Threat Feeds ..... 11
- Change Log..... 14

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# Export Details

ThreatQuotient provides the following details for this export:

**Current Guide Version**      1.0.0

<b>Support Tier</b>	<b>ThreatQ Supported</b>
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<b>FortiOS</b>	<b>&gt;= 6.0</b>
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# Introduction

ThreatQuotient makes it easy for customers to export IOCs to their Fortinet FortiGate Firewall. The implementation is done using the Threat Feed Connectors feature available in FortiOS v6.0 and above. An export with IOCs is first created on ThreatQ and the export URL is installed FortiGate appliance.



This integration only works on FortiOS v6.0 and above.

# Prerequisites

Before starting the integration, users are encouraged to familiarize themselves with the following documents:

- Fortinet Fortigate cookbook on blocking malicious domains using threat feeds - <https://docs.fortinet.com/document/fortigate/6.0.0/cookbook/85580>
- Using Threat Feed Connectors in FortiOS v6.0 and above - [https://help.fortinet.com/fos60hlp/60/Content/FortiOS/fortigate-security-profiles/Web\\_Filter/Overriding%20FortiGuard%20website%20categorization.htm#External](https://help.fortinet.com/fos60hlp/60/Content/FortiOS/fortigate-security-profiles/Web_Filter/Overriding%20FortiGuard%20website%20categorization.htm#External)

# Creating the Export

The export is a dynamic list of IOCs which should be configured on ThreatQ and provided to a FortiGate instance to read from.



See the Managing Exports topic for more details on ThreatQ exports.

1. Select the **Settings icon > Exports**.

The Exports page appears with a table listing all exports in alphabetical order.

2. Click **Add New Export**

The Connection Settings dialog box appears.

3. Enter an **Export Name**.

4. Click **Next Step**.

The Output Format dialog box appears.

5. Provide the following information:

FIELD	VALUE
Type of information you would like to export	Indicators
Output Type	text/plain

## Special Parameters

There are two options for special parameters:

If the security policy of your organization requires that all IP Addresses and FQDNs are sent to FortiGate, use these filters for the special parameters:



## FIELD

## VALUE

```
<> indicator.status=Active&indicator  
.deleted=N&indicator.type=IP  
Address& indicator.type=FQDN
```

To send only the IOCs that have a custom status, e.g. Send to FortiGate, use the special parameters below.

To create the custom status:

1. Click on the **Settings** gear icon and select **Object Management**.
2. Click on **Add New Status** button located to the top-right of the page.
3. Enter **Send to FortiGate** as the status name, add an optional description, and click on **Add Status**.
4. Use the following special parameter for your export:

```
<> indicator.status=Send to  
FortiGate
```

## Output Template

```
<> {foreach $data as $indicator}  
{$indicator.value}  
{/foreach}
```

Once configured, the export will look similar to the snapshot below.

## Output Format ✕

Type of information you would like to export? ▼  
Indicators

Output type ▼  
text/plain

**Filter by TLP**

- ☒ Red
- ☒ Amber
- ☒ Green
- ☒ White
- ☒ None

Special Parameters *(optional)*  
indicator.status=Send to FortiGate

Provide URL Parameters to further refine information being exported: [See examples.](#)

Insert Variable ▼

Output Format Template  
{foreach \$data as \$indicator}  
{\$indicator.value}  
{/foreach}

Save Settings

Cancel

# Configuring FortiGate

The following section will provide you with steps and related resources to configure FortiGate to work with the export.

## Configure FortiGate to Download Indicators from ThreatQ

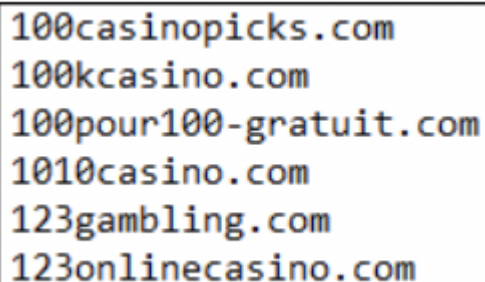
The following detailed steps have been copied from the FortiGate support center and provided here for convenience. The source is <https://docs.fortinet.com/document/fortigate/6.0.0/cookbook/85580>

## Blocking Malicious Domains using Threat Feeds

This example uses a domain name threat feed and FortiGate DNS filtering to block malicious domains. The text file in this example is a list of gambling site domain names.

Threat feeds allow you to dynamically import external block lists in the form of a text file into your FortiGate. These text files, stored on an HTTP server, can contain a list of web addresses or domains. You can use threat feeds to deny access to a source or destination IP address in Web Filter and DNS Filter profiles, SSL inspection exemptions, and as a source/destination in proxy policies. You can use Fabric connectors for FortiGate that do not belong to a Fortinet Security Fabric.

1. Create an external block list. The external block list should be a plain text file with one domain name per line. The use of simple wildcards is supported. You can create your own text file or download it from an external service. Upload the text file to the HTTP file server.




```
100casinopicks.com
100kcasino.com
100pour100-gratuit.com
1010casino.com
123gambling.com
123onlinecasino.com
```

2. Configure the threat feed:
  - a. In FortiOS, go to Security Fabric -> Fabric Connectors. Click Create New.

- b. Under Threat Feeds, select Domain Name.
- c. Configure the Name, URI of external resource, and Refresh Rate fields. In the URI of external resource field, enter the location of the text file on the HTTP file server. By default, the FortiGate rereads the file and uploads any changes every five minutes.

Threat Feeds

  
Domain Name

Connector Settings


Name


*Resource name will appear as an "Remote Category" in DNS Filter Profiles.*

URI of external resource

Refresh Rate









Comments

Last Update  2018/08/07 09:19:47 [View Entries](#)

Status 

[OK](#) [Cancel](#)

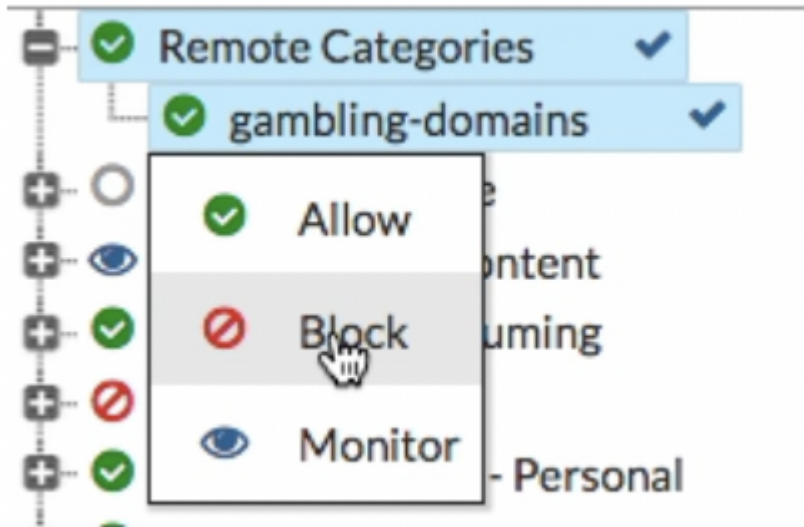
- d. Click View Entries to see the text file's domain list.

Domain Name Threat Feed "gambling-domains"			
<input type="text" value="Search"/>			<span>2,004 Valid</span> <span>5 Invalid</span>
Entry	Validity		
100casinopicks.com	 Valid		
100kcasino.com	 Valid		
100pour100-gratuit.com	 Valid		
1010casino.com	 Valid		
123gambling.com	 Valid		
123onlinecasino.com	 Valid		
123onlinecasino.com	 Valid		

- e. Click OK.

3. Add the threat feed to the DNS filter:

- Go to Security Profiles -> DNS Filter.
- Scroll to the list of preconfigured FortiGuard filters.
- The resource file uploaded earlier is listed under Remote Categories. Set the action for this category to Block.

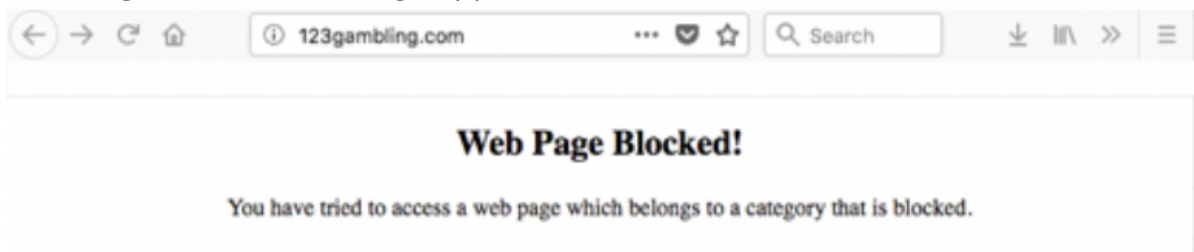


4. Configure the outgoing Internet policy:

- Go to **Policy & Objects -> IPv4 Policy**.
- Enable the **DNS Filter** under the *Security Profiles*.
- From the SSL Inspection dropdown list, select an SSL inspection profile.

5. View the results:

- Visit a domain on the external resource file. This example visits 123gambling.com. A Web Page Blocked! message appears.



- In FortiOS, go to **Log & Report -> DNS Query**. The logs show that the 123gambling.com domain belongs to a blocked category.

#	Date/Time	DNS Type	Source	Domain Name	Query Type	Policy	Message
1	Hour ago	dns-response	writer 38:c9:86:39:b5:98	123gambling.com	A	1	Domain belongs to a denied category in policy
2	Hour ago	dns-response	writer 38:c9:86:39:b5:98	123gambling.com	A	1	Domain belongs to a denied category in policy
3	Hour ago	dns-response	writer 38:c9:86:39:b5:98	www.richcasino.com	A	1	Domain belongs to a denied category in policy
4	Hour ago	dns-response	writer 38:c9:86:39:b5:98	www.richcasino.com	A	1	Domain belongs to a denied category in policy

# Change Log

- Version 1.0.0
  - Initial release