

Endpoint: dnsbl - DNSBL v5 with API v3



GDPR NOTICE

We used to snapshot the that rendered the blacklist reason.

However, as of 25th may 2018, when the data protection law changed the history of personal integrity, we no longer store this kind of content. It might sound strange that we do not store spam that works like a proof for why e-mail has been blacklisted. It also normally helps system administrators (especially those who administers email services) to trace the source of spam. But to protect the receivers part data, the mail spam storage project has been abandoned.

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API description, development and DNSBL docs

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DNSBLv5 is a part of the deprecated APIv2 interface. However, we missed two things in the interface:

- Proper documentation
- API Configuration abilities (meaning, API keys was a nightmare if you wanted to create them, since you was forced doing this manually)

Both problems are solved: The documentation is being written as the DNSBL are developed and the API Configuration can be done by using TorneAUTHv4.

DNSBLv5 at the level of APIv3 is a bit different to the old API. Instead of doing weird requests, the APIv3 is properly utilizing the use of HTTP methods.

Take a look below at the big differences.

Permissions



Resolve first, use API last!

BEFORE USING THE API TO GET LIST OF BLACKLISTED HOSTS, READ THIS SECTION!

In the DNSBLv3-API a new set of permissions are assigned to the DNSBL. Normally, no permissions are required (to list blacklisted hosts).



Requesting permissions?

The special permissions need to be requested manually via support@tornevall.net

Permission flag	Description
allow_cidr	<i>The usage of CIDR-blocks are normally not permitted by the DNSBL API, in more functions than listing them. This permission also opens up for usage in DELETE/UPDATE cases (in our local e-mail requests where support sometimes cover CIDR-block removals, this would help a lot). However, adding data with CIDR and different flags might be a problem (this permission does not exist in the API yet)</i>
allow_cidr_update	<i>Setting that partially allows CIDR-block updates for the DNSBL (there might be limitations linked to this permission - see the documentation for this information)</i> Current limitations: Not larger than a /24. This permission is also, currently, limited for internal use.
can_purge	<i>Special ability to purge hosts instead of marking them deleted in the database</i>
dnsbl_update	<i>Standard DNSBL ability to update data in the DNSBL (dnsbl.tornevall.org and bl.fraudbl.org)</i>

<p>HTTP PUT</p>	<p>https://api.tornevall.net/3.0/dnsbl/</p>	<p>Insert or update ip address</p>	<table border="1" data-bbox="824 138 1252 174"> <tr> <td>ip</td> <td>Array with ip address and bitmasked flag-per-ip</td> </tr> </table> <p>The bitmask flags mentions here</p> <p>Example:</p> <div data-bbox="824 279 1360 548" style="border: 1px solid #ccc; padding: 5px;"> <p>Do blacklist</p> <pre>{ "ip": { "10.10.10.10": 64 }, "type": "dnsbl" }</pre> </div> <p>Response Look:</p> <p>Response parameters (status) described</p> <table border="1" data-bbox="824 648 1360 936"> <tr> <td>success</td> <td>The insertion ID</td> </tr> <tr> <td>address</td> <td>The address that was update or inserted</td> </tr> <tr> <td>state</td> <td>Defines if the request already has the address blacklisted or if it was updated. Answers can be new or update.</td> </tr> <tr> <td>arpaDelegations</td> <td>A list of DNS-records that was registered or updated</td> </tr> <tr> <td>flag</td> <td>The flag of the blacklisted address</td> </tr> </table> <div data-bbox="824 999 1360 1551" style="border: 1px solid #ccc; padding: 5px;"> <p>Do blacklist</p> <pre>{ "dnsblResponse": { "status": [{ "success": "1934699", "address": "10.10.10.10", "state": "new", "arpaDelegations": ["10.10.10.10.dnsbl.tornevall.org"], "flag": "64" }] } }</pre> </div>	ip	Array with ip address and bitmasked flag-per-ip	success	The insertion ID	address	The address that was update or inserted	state	Defines if the request already has the address blacklisted or if it was updated. Answers can be new or update .	arpaDelegations	A list of DNS-records that was registered or updated	flag	The flag of the blacklisted address
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<p>HTTP DELETE</p>	<p>https://api.tornevall.net/3.0/dnsbl/</p>	<p>Delist (delete/remove) ip address</p>	<p>Example:</p> <div data-bbox="824 1629 1360 1818" style="border: 1px solid #ccc; padding: 5px;"> <p>Do blacklist</p> <pre>{ "ip": "1.2.3.4", }</pre> </div>												

Registration types

The default "type" used in some of the examples above is using the standard registration behaviour. It is simply just "dnsbl". As fraudbl.org is using the same flagset (see [DNSBLv5: About and usage](#)), normally we don't need to know anything else than this. Adding a host with the flagid 4 (phishing) will also automatically update the fraudbl tables with proper data.

In the new plugin for Wordpress, however, there's a new supported method that includes ecommerce. The refresh rate for this method are much higher than the normal hosts registry (and normally, you want to use the API for this as DNS requests might be a bit delayed). The ecommerce method is specifically used for fraud controls in ecommerce sites (with for example ecommerce plugins that supports fraud controls). As this method should be used with caution, since this directly might affect ecommerce sites, the hosts also have a shorter time to live and should - by a supported plugin - also handle ecommerce unfreezing (which means, if your site is flagging a host as fraudulent, it should also deflag hosts when they are confirmed non fraudulent).

We should also consider how to block website visitors as orders flagged as fraud, might also deny access to websites instead of order confirmations. However, the real purpose of this functionality is to block visitors to shop if they are really used for frauding (for example, fraud-customers that visits many shops at the same time to buy things before discovered). In this case, the checkout should be rejected.

The typeset for such scenarios is "ecommerce" and will be flagged differently to the regular lookups. Here's an example:

```
{
  "ip": "1.2.3.4",
  "type": "ecommerce"
}
```

[allow_cidr_update](#)