

Blocklist Report

A report based on non-Shadowserver public IP
blocklists

 @shadowserver

 contact@shadowserver.org



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Presentation Aims & Objectives

- Introduce Blocklist reports
- Highlight a sample Blocklist report
- Describe key features of the report
- Demonstrate how a National CERT can action a Blocklist report
- Offer guidance on how to protect and remove Blocklists
- Provide a key list of Shadowserver online resources to enable report subscription and use



Blocklists



- Blocklists are a popular mechanism for protecting against cyber attacks, often meant to be used directly in firewalls or IDS/IPS systems
- The sources and mechanisms behind the blocklists may be very varied
- Shadowserver monitors over 110 public lists daily, aggregates the data and shares it
- None of the data is actually sourced from Shadowserver itself and Shadowserver do not control these lists in any way

Blocklist Report



- Block List Report: <https://www.shadowserver.org/what-we-do/network-reporting/blocklist-report/>
- Report is available as a file in CSV format
- The report filename contains blocklist
- Reports can be sent as e-mail attachments, downloaded via HTTP or obtained via a RESTful API
- All timestamps are in UTC
- For more documentation on API access, please visit the below URLs and send a request for access to contact@shadowserver.org
<https://www.shadowserver.org/what-we-do/network-reporting/api-documentation/>
<https://www.shadowserver.org/what-we-do/network-reporting/api-reports-query/>

Example Blocklists Report



Block List Report

This report is the aggregation of a variety of different Block/Deny list providers, for end-users' reference.

The purpose in sharing this information is to alert end-users that specific IP addresses of theirs have been flagged by providers as possibly malicious, and different services might be affected because of this listing.

The option to remove any system from a block list will vary by the provider. Some will have a well documented process, and some will demand payment for removal.

<https://www.shadowserver.org/what-we-do/network-reporting/blocklist-report/>



FIELDS

timestamp	Date and time of the tracked event in UTC+0
ip	IP Address of the device in question
hostname	Reverse DNS of the device in question
source	Block list source
reason	Given reason of the block list by the source
asn	ASN of where the device in question resides
geo	Country where the device in question resides
region	State / Province / Administrative region where the device in question resides
city	City in which the device in question resides

SAMPLE

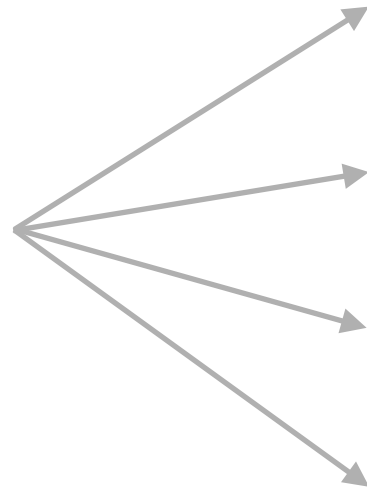
```
"timestamp","ip","hostname","source","reason","asn","geo","region","city","naics","sic"
"2015-09-21 01:13:38","50.62.177.14",,"blocklist.de","apache abuse",26496,"US","ARIZONA"
"2015-09-21 01:13:38","46.29.2.166",,"blocklist.de","apache abuse",6663,"SK","BRATISLAVA"
"2015-09-21 01:13:38","50.62.177.208",,"blocklist.de","apache abuse",26496,"US","ARIZONA"
"2015-09-21 01:13:38","5.141.52.232",,"blocklist.de","apache abuse",28719,"RU","KHANTY-MANSIY"
"2015-09-21 01:13:38","5.141.229.165",,"blocklist.de","apache abuse",12705,"RU","PERMSKIY"
"2015-09-21 01:13:38","50.62.161.15",,"blocklist.de","apache abuse",26496,"US","ARIZONA"
"2015-09-21 01:13:38","46.219.242.192",,"blocklist.de","apache abuse",31148,"UA","KYIV"
"2015-09-21 01:13:38","46.200.239.116",,"blocklist.de","apache abuse",6849,"UA","L'VIV"
"2015-09-21 01:13:38","46.63.78.85",,"blocklist.de","apache abuse",51784,"UA","KHMEL'NYTZKYI"
```

Action a Blocklist Report



timestamp	ip	Hostname	source	reason	asn	geo	region	city
07/03/2022 00:02	46.29.2.XX	XXX	blocklist.de	apache abuse	6663	SK	BRATISLAVA KRAJ	BRATISLAVA

Key event fields



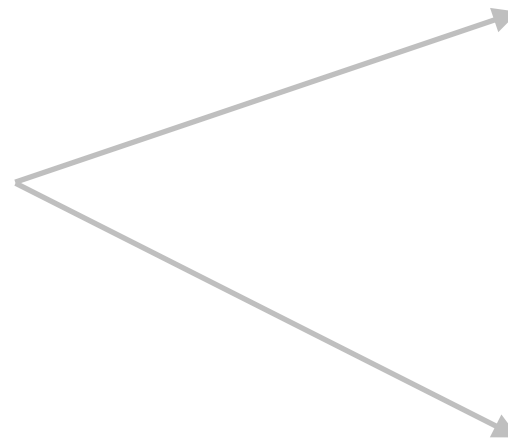
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Action a Blocklist Report



timestamp	ip	Hostname	source	reason	asn	geo	region	city
07/03/2022 00:02	46.29.2.XX	XXX	blocklist.de	apache abuse	6663	SK	BRATISLAVA KRAJ	BRATISLAVA

IP WHOIS
46.29.2.XX



```
% Abuse contact for '46.29.2.0 - 46.29.2.255' is 'abuse@enahost.com'  
  
inetnum:      46.29.2.0 - 46.29.2.255  
netname:      LERTAS-NET  
descr:        Lertas network  
country:      SK  
admin-c:      LL5900-RIPE  
tech-c:       LL5900-RIPE  
mnt-domains:  TTISK-MNT  
status:       ASSIGNED PA  
mnt-by:       TTISK-MNT  
mnt-routes:   MNT-EWRO  
created:      2013-07-17T21:37:12Z  
last-modified: 2018-05-16T07:47:27Z  
source:       RIPE  
abuse-c:      LAH26-RIPE
```


Verifying results



- Shadowserver provides the report “as-is” based on data published by others
- Some blocklists may contain false positives
- Some blocklists may have stale data
- Questions on blocklist content should be directed to the source of the particular list (mentioned in the report)

Blocklist - Removal

- Visit the provider and confirm the IP - our reports often only report out the wider CIDR block
- List owners will provide a general listing reason (as shown in our report)
- Removal policies vary by provider :
 - Self-Service Removal - some list owners operate a self-service removal feature
 - Time-Based Removal - most lists have a built-in, automatic process that removes IP addresses on different time periods if they are suspecting of sending SPAM multiple times
 - At Cost Removal - some providers may charge a removal fee
- Ensure you provide a review of mail server settings and look for issues such as :
 - missing or incorrect reverse DNS records
 - missing or incorrect banner greetings



Summary & Key Report Pages



Reports overview

- <https://www.shadowserver.org/what-we-do/network-reporting/get-reports/>
- <https://www.shadowserver.org/what-we-do/network-reporting/>
- <https://www.shadowserver.org/what-we-do/network-reporting/blocklist-report/>

Report Updates

- <https://www.shadowserver.org/news-insights/>
- Twitter [@shadowserver](https://twitter.com/shadowserver)
- Mailing list access send request to contact@shadowserver.org and request access to public@shadowserver.org
- Or subscribe directly at <https://mail.shadowserver.org/mailman/listinfo/public>

Reports API

- Request access to contact@shadowserver.org
- <https://www.shadowserver.org/what-we-do/network-reporting/api-documentation/>
- <https://www.shadowserver.org/what-we-do/network-reporting/api-reports-query/>





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