



How to Find My or Someone Else's IP Range with IP Netblocks WHOIS Database and IP Netblocks API

Hackers are known to hijack IP addresses for use in various illegal activities. They could thus use your IP address in a malicious campaign, but that doesn't mean you're guilty. And so, your infosec team needs to gather enough evidence to counter accusations of foul play against you. You may also need to help the authorities by looking into who is behind a threat.

The first step in that direction is answering the question: What is my IP range? Solutions like [IP Netblocks API](#) or [IP Netblocks WHOIS Database](#) could be of help. That's not where the buck stops, though, you'll need to use a host of IP and domain intelligence tools next. For this reason, we created this guide for you.

Guide to Identifying the Real Threat Actor Starting with IP Netblocks API or IP Netblocks WHOIS Database

Let's say, for example, that a company accused your organization of foul play as the IP address 95[.]64[.]253[.]245 that has been trying to access one of their restricted systems repeatedly points to you. What do you do?

1. Gather Details about Your IP range using IP Netblocks API/IP Netblocks WHOIS Database

IP Netblocks API and IP Netblocks WHOIS Database provide detailed ownership information about an IP range.

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Search by IPv4, IPv6, Company name, ASN
Demo: up to 100 ranges

```

{
  "asn": "AS12345",
  "country": "RU",
  "description": "Moscow Region, Balashiha city",
  "name": "Moscow Region, Balashiha city",
  "organization": "Russia"
}

```

Total ranges: 5

```

"ORG-CJSC20-RIPE",
  "MultiCable Networks of Balashikha Limited Liability Company",
  "contact": "asedletsky@spd-mgts.ru\ndirektor@mksbalashihi.ru",
  "phone": "+74959500284",
  "website": "",
  "email": "",
  "code": "",
  "status": [

```

Decoded format
⤴

You found that the IP address in question is indeed included in five ranges. The narrowest two of these ranges can be explicitly linked to the Internet service provider (ISP) MultiCable Networks of Balashikha Limited Liability Company. Indeed, the first range, 95[.]64[.]128[.]0 to 95[.]64[.]255[.]255, and the second (broader) range, 95[.]64[.]128[.]0 to 95[.]64[.]255[.]255, have been allocated to the ISP. In both cases, the company has appointed m.kuschuk@mksbalashihi[.]ru as a contact point.

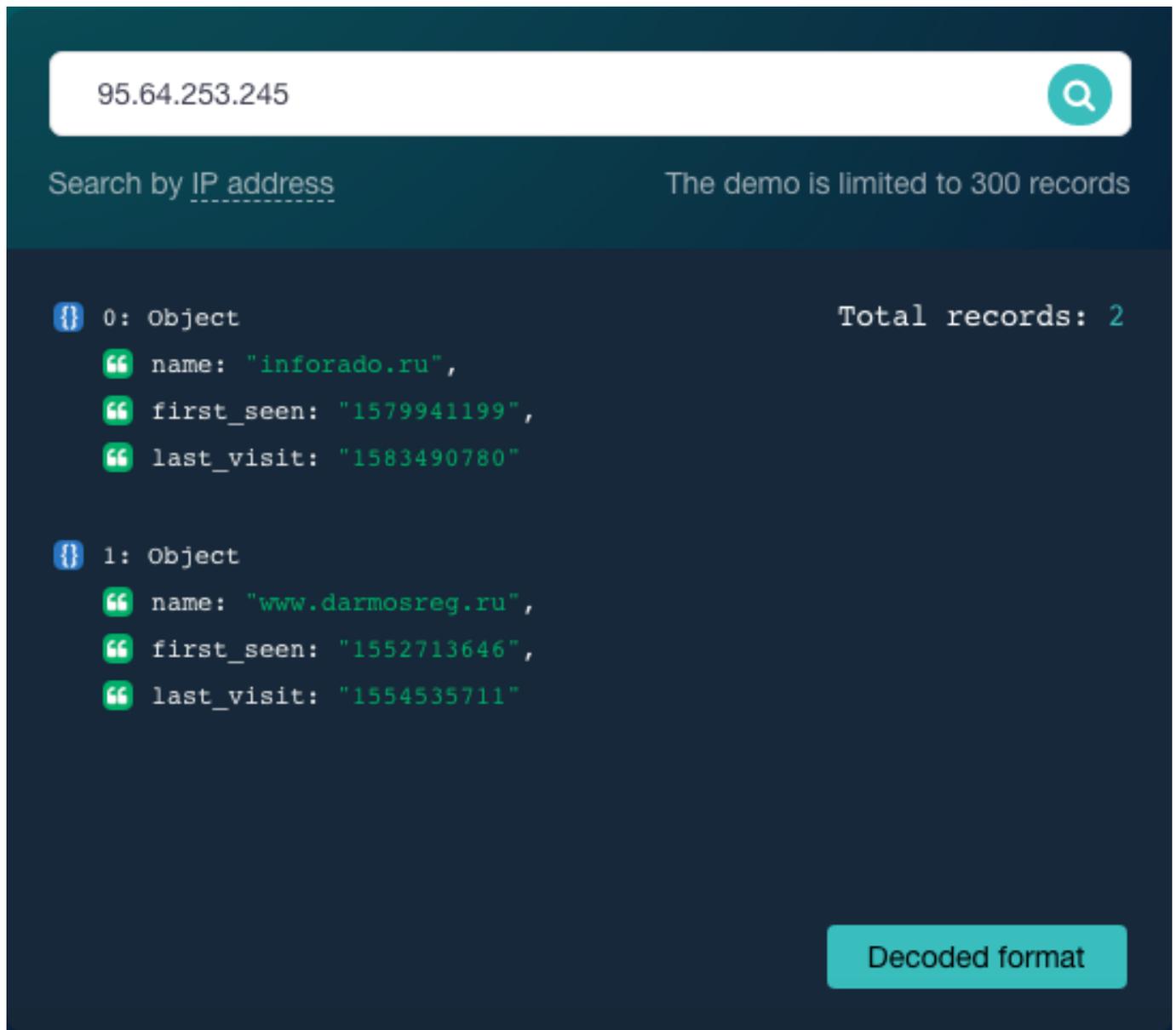
The query results also show that all the ranges are under the jurisdiction of the Reseaux IP Europeens Network Coordination Centre (RIPE NCC), and reports of abuse can be sent to abuse@ripe[.]net or hostmaster@ripe[.]net.

Downloading IP Netblocks WHOIS Database and looking up the information would give you the same results.

2. Use Reverse IP/DNS API to look for connected domains

In this scenario, you are aware that you are using a shared IP address. So, if not you, one of the domains hosted on your IP address may thus be at fault. [Reverse IP/DNS API](#) can help you obtain a list of all the domains you share the IP address with.

The inputting of your IP address into the tool gives you two domains hosted on 95[.]64[.]253[.]245.



The screenshot shows a web interface for a Reverse IP/DNS API. At the top, there is a search bar containing the IP address "95.64.253.245" and a search icon. Below the search bar, the text "Search by IP address" is visible, along with a note: "The demo is limited to 300 records". The search results are displayed in a JSON-like format, showing two objects. The first object has the following fields: "name": "inforado.ru", "first_seen": "1579941199", and "last_visit": "1583490780". The second object has the following fields: "name": "www.darmosreg.ru", "first_seen": "1552713646", and "last_visit": "1554535711". The total number of records is indicated as "Total records: 2". At the bottom right, there is a button labeled "Decoded format".

```
{
  "0": {
    "name": "inforado.ru",
    "first_seen": "1579941199",
    "last_visit": "1583490780"
  },
  "1": {
    "name": "www.darmosreg.ru",
    "first_seen": "1552713646",
    "last_visit": "1554535711"
  }
}
```

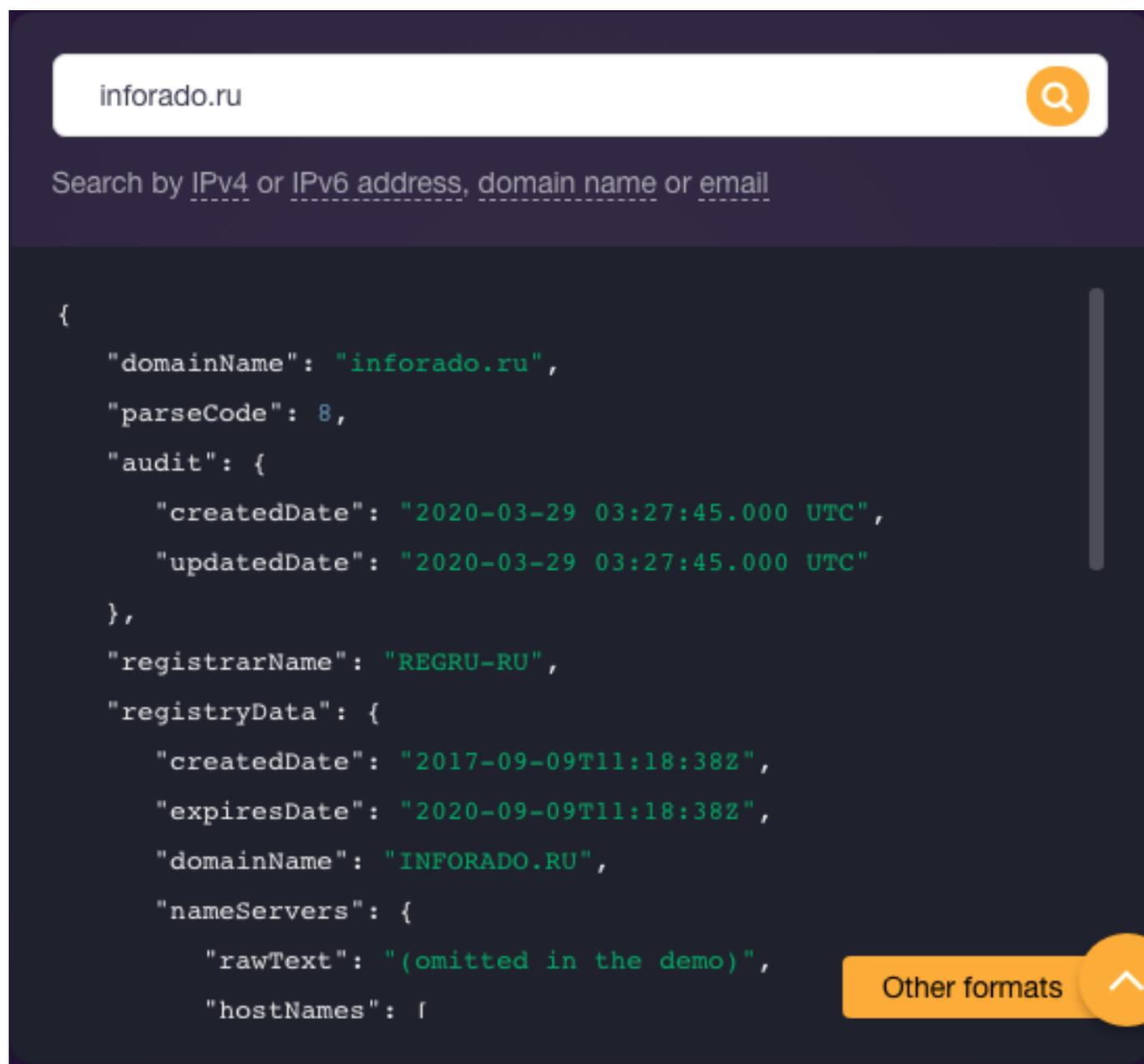
Total records: 2

Decoded format

For the sake of the example, let's say that your domain is `www[.]darmosreg[.]ru` in this hypothetical scenario. The other domain `inforado[.]ru`, on the other hand, doesn't belong to you.

3. Get the domains' ownership details with WHOIS API

You'll need proof that you don't own the other domain for your case. You can rely on [WHOIS API](#) for that to give you the following details:



The screenshot shows a search interface for the domain `inforado.ru`. Below the search bar, there is a prompt: "Search by IPv4 or IPv6 address, domain name or email". The main content area displays a JSON response from the WHOIS API. The JSON object contains the following fields: `domainName` (inforado.ru), `parseCode` (8), `audit` (with `createdDate` and `updatedAt` both set to "2020-03-29 03:27:45.000 UTC"), `registrarName` (REGRU-RU), and `registryData` (with `createdDate` "2017-09-09T11:18:38Z", `expiresDate` "2020-09-09T11:18:38Z", `domainName` "INFORADO.RU", and `nameServers` containing a `rawText` field with "(omitted in the demo)" and a `hostNames` field). In the bottom right corner, there is a button labeled "Other formats" with an upward-pointing arrow.

```
{
  "domainName": "inforado.ru",
  "parseCode": 8,
  "audit": {
    "createdDate": "2020-03-29 03:27:45.000 UTC",
    "updatedAt": "2020-03-29 03:27:45.000 UTC"
  },
  "registrarName": "REGRU-RU",
  "registryData": {
    "createdDate": "2017-09-09T11:18:38Z",
    "expiresDate": "2020-09-09T11:18:38Z",
    "domainName": "INFORADO.RU",
    "nameServers": {
      "rawText": "(omitted in the demo)",
      "hostNames": [
```

www.darmosreg.ru



Search by IPv4 or IPv6 address, domain name or email

```
{
  "domainName": "darmosreg.ru",
  "parseCode": 8,
  "audit": {
    "createdDate": "2020-03-29 03:29:30.917 UTC",
    "updatedDate": "2020-03-29 03:29:30.917 UTC"
  },
  "registrarName": "RU-CENTER-RU",
  "registryData": {
    "createdDate": "2016-08-31T08:16:25Z",
    "expiresDate": "2020-08-31T08:16:25Z",
    "registrant": {
      "organization": "GKUSO MO Balashihinskiy RC Rosinka"
    }
  },
  "domainName": "darmosreg.ru".
```

Other formats



Interestingly, your domain darmosreg[.]ru isn't privacy-protected. It shows your company as its registrant, which is proof that you are not hiding anything. The registrant of the other domain inforado[.]ru doesn't appear on its WHOIS record (i.e., there is no field "registrant" as in the case of the other domain).

4. Check your and other domains on the same IP address for ties to malicious activity using Threat Intelligence Platform

Since a company is accusing you of malicious activity, you need to prove that your domain is clean. You can use the [Threat Intelligence Platform \(TIP\)](#) among other

solutions for that.

A query for your domain name `darmosreg[.]ru` on TIP reveals that it is threat-free for the following aspects:

Potentially dangerous content [?]

Links to .apk files [?]	OK
Links to .exe files [?]	OK
Iframes [?]	OK
Scripts opening new windows [?]	OK
Redirects [?]	OK

Malware databases check [?]

Phishing	OK	Status: safe
Malware	OK	Status: safe
Botnet command-and-control	OK	Status: safe
Spam	OK	Status: safe
Reputation data	OK	Status: safe
Denial of Service Attack Data	OK	Status: safe

Our query for the domain inforado[.]ru, meanwhile, shows that it appears on VirusTotal's suspicious URLs database. It is, therefore, malicious. It may also be the one responsible for a particular malicious activity.

Malware databases check [?]

Phishing	OK	Status: safe
Malware	Warning	Listed on Virus Total suspicious URLs analyser
Botnet command-and-control	OK	Status: safe
Spam	OK	Status: safe
Reputation data	OK	Status: safe
Denial of Service Attack Data	OK	Status: safe

5. Pool all your evidence and send it to your accuser and the authorities

Now that you have all the data you need, you can contact your accuser and tell the organization that you just happen to share an IP address with a malicious domain that has no actual ties to your company. You can submit all of your findings to your ISP as well, along with the accusation against your business. What's more, you can ask your ISP to assign you a different IP address so you'd no longer have to deal with similar allegations in the future.

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By now, you've probably realized how vital knowing and keeping your IP and its IP range threat-free is to avoid severe repercussions such as being accused of launching attacks. IP range lookups via [IP Netblocks API](#) or [IP Netblocks WHOIS Database](#) are a crucial first step in performing in-depth investigations concerning IP addresses.