



RIPE NCC
RIPE NETWORK COORDINATION CENTRE

**#InfoRedes #NetOX
#RIPEstat**

RIR Collaboration on
RIPEstat

Christian Teuschel | October 2019 | ESNOG 24

What is RIPEstat?



- Open data platform for RIPE NCC data
 - RIPE Database, RIS and RIPE Atlas
- Information service for Internet-related data
- Insight through statistics!



RIPE NCC
RIPEstat



RIPEstat Data Sources Available



- More than 25 different datasets

- RIPE Database (INR, IRR) and other RIRs
- BGP routing data (RIS)
- RIPE Atlas, M-Lab, Speedchecker etc.
- Geolocation
- Blacklist
- More details at <https://stat.ripe.net/data-sources>

...

- New datasets are constantly added!

RIPEstat APIs



- <https://stat.ripe.net>
- RIPEstat widget API
- RIPEstat data API
 - <https://stat.ripe.net/data/routing-status/data.json?resource=...>

RIPEstat Data API



- JSON-RPC API
 - E.g. [https://stat.ripe.net/data/prefix-overview/data.json?
max_related=50&resource=193.0.20.0%2F23](https://stat.ripe.net/data/prefix-overview/data.json?max_related=50&resource=193.0.20.0%2F23)
- More than 50 data calls
- Documentation
 - https://stat.ripe.net/docs/data_api

RIPEstat Widget API



- HTML5/CSS/JS applications
- Standard Javascript
 - JQuery
 - Require.js
- More than 50 widgets
- Documentation
 - https://stat.ripe.net/docs/widget_api

RIPEstat Widget API



- Building blocks of RIPEstat web interface
<https://stat.ripe.net>

A screenshot of the RIPEstat web interface. At the top, there's a navigation bar with links for RIPE Database (Whois), Website, Search IP Address or ASN, Manage IPs and ASNs, Analyse (which is highlighted in yellow), Participate, Get Support, Publications, and About Us. Below the navigation is a breadcrumb trail: You are here: Home > Analyse > Statistics > RIPEstat. The main title "RIPEstat" is centered above a search bar. The search bar contains the placeholder "Enter an IP address/prefix, ASN, country code or hostname" and a "Go" button. Below the search bar, it says "Your network: AS3333, 193.0.20.0/23" and "Try one of these: IPv4 prefix, IPv4 range, IPv6, ASN". The page is divided into three columns: "Twitter Feed" on the left, "RIPE Labs Feed" in the middle, and "RIPEstat Links" on the right. The Twitter feed shows a tweet from Christian (RIPEstat) (@NCC_RIPEstat) about the feature fact. The RIPE Labs feed lists "Historical Whois" (Apr 05, 2018) and "Using RIPEstat to Analyse Cable Cuts in Chile" (Jan 05, 2018). The RIPEstat Links column provides links to "About RIPEstat", "Documentation", and "Use Cases".

RIPE NCC
RIPE NETWORK COORDINATION CENTRE

Christian Teuschel

RIPE Database (Whois) Website

Search IP Address or ASN

Manage IPs and ASNs > Analyse > Participate > Get Support > Publications > About Us >

You are here: Home > Analyse > Statistics > RIPEstat

RIPEstat

Enter an IP address/prefix, ASN, country code or hostname

Your network: AS3333, 193.0.20.0/23

Try one of these: IPv4 prefix, IPv4 range, IPv6, ASN

Go

Twitter Feed

#RIPEstat

Christian (RIPEstat) @NCC_RIPEstat

#RIPEstat feature fact: Every widget shows in the bottom for which resource and time the output is valid!

RIPE Labs Feed

Historical Whois Apr 05, 2018

Using RIPEstat to Analyse Cable Cuts in Chile Jan 05, 2018

BGP Meets Cat Jun 26, 2017

RIPEstat Links

About RIPEstat
Get general information about RIPEstat

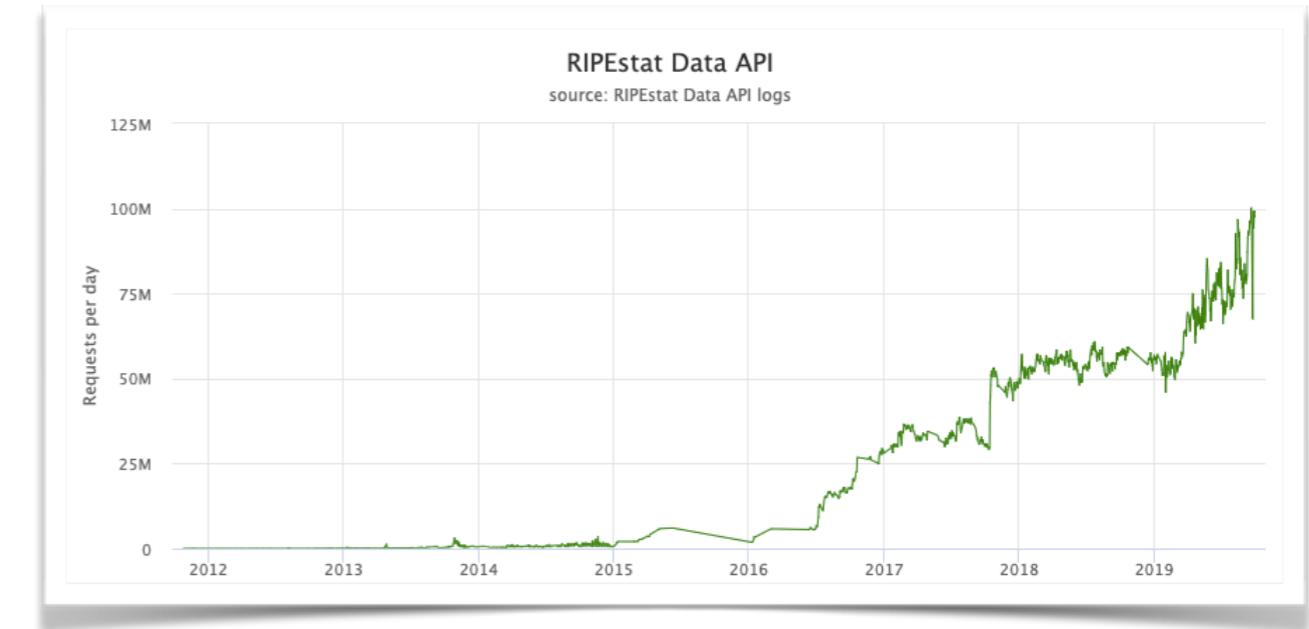
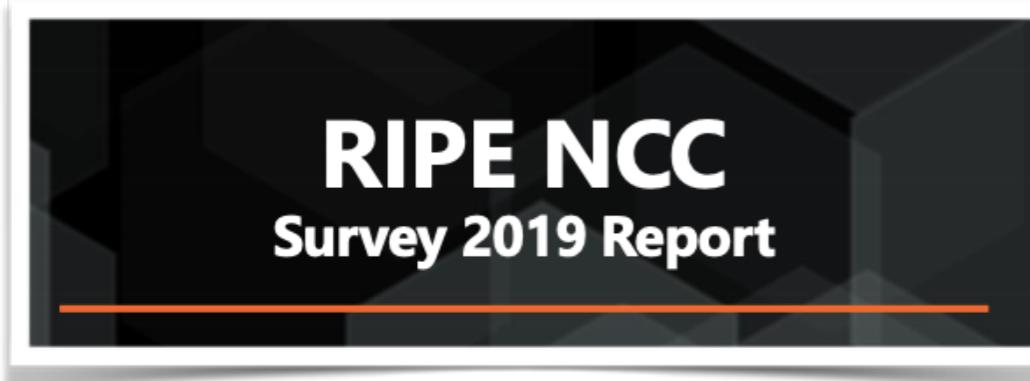
Documentation
Access the documentation for all RIPEstat APIs

Use Cases
Read about use cases for RIPEstat

Usage of RIPEstat



- RIPEstat is popular!
 - ~100 million requests per day
 - More than 1.5 million unique clients/IPs (daily)



"RIPEstat is the most used tool of the RIPE NCC tools and services..."

Usage of RIPEstat



- RIPEstat has a very diverse user base

Country		▼ VISITS
COUNTRY		
United States		23.2% 34,207
Germany		7.9% 11,609
Russia		7.4% 10,978
United Kingdom		7.2% 10,569
Poland		5% 7,385
Netherlands		3.1% 4,541
Spain		3% 4,384
France		2.8% 4,130
Italy		2.8% 4,101
Iran		2.7% 4,013
Ukraine		2.3% 3,372
Brazil		1.7% 2,454
Turkey		1.6% 2,296
Slovenia		1.4% 2,014
Switzerland		1.2% 1,791
Czechia		1.2% 1,762
South Korea		1.2% 1,762
Romania		1.2% 1,753
Japan		1.1% 1,633

Usage of RIPEstat



- Despite this diverse user base, users from other RIR regions are underrepresented
- Possible reasons
 - Lack of knowledge about the service
 - Language barrier
 - Not addressing local topic
- **We believe we can improve these points through cooperation with other RIRs**

RIR Cooperation



- **Phase 1**

- Customisation of the UI to LACNIC's design
- Localisation of textual content

- **Phase 2**

- Cooperation on system operation and dataset provisioning
- Example for dataset provisioning: collaboration on BGP route collectors between APNIC, LACNIC and RIPE NCC (already ongoing)
- Phase 1 and 2 are independent for data set provisioning

Phase 1 Details



- **Customisation of the UI to LACNIC's design**
 - The goal is to provide UI that reflects the affiliation to LACNIC. Users that go to stats.lacnic.net will see RIPEstat loaded with a LACNIC customised template e.g. LACNIC logo, header and footer. In the simplest case this requires a DNS entry for stat.lacnic.net pointing to RIPEstat and adaptions in the UI logic
- **Localisation of textual content**
 - The text that appears in RIPEstat widgets would be translated to Spanish and Portuguese. This would require language support in RIPEstat and the translation efforts

Benefits



- **Improved usability for users in LACNIC region**
 - Catering for regional information requirements
 - Removing language barrier
 - Access to regional datasets
 - Ability to show and share local events
 - Establishing feedback channel for regional matter to RIPEstat



inforedes.labs.lacnic.net

ESPAÑOL ENGLISH PORTUGUÊS

lacnic inforedes

Información acerca de recursos de numeración de Internet utilizando RIPEstat. Ingrese una dirección o prefijo IPv4, IPv6 o un ASN para obtener información sobre routing, conectividad, RPKI y otra información útil para operadores de red.

Prefijo, ASN o Nombre de Dominio

Tu red: [AS3333 2001:67c:2e8::/48](#) Prueba alguno de estos ejemplos: [Prefijo IPv4](#), [Prefijo IPv6](#), [Rango IPv4](#), [ASN](#)

 CASA DE INTERNET
DE LATINOAMÉRICA Y EL CARIBE
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- LACNIC's themed version of RIPEstat
- Localisations
 - Content
 - Decisions
 - Language
 - Feedback



- LACNIC's themed version of RIPEstat
- Localisations
 - Content
 - Decisions
 - Language
 - Feedback



- LACNIC's themed version of RIPEstat
- Localisations
 - Content
 - **Decisions**
 - Language
 - Feedback



- LACNIC's themed version of RIPEstat
- Localisations
 - Content
 - Decisions
 - Language
 - Feedback



- LACNIC's themed version of RIPEstat
- Localisations
 - Content
 - Decisions
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 - Feedback



- LACNIC's themed version of RIPEstat
- Localisations
 - Content
 - Decisions
 - Language
 - Feedback
- Powered by RIPEstat Data API
- Implementation took two weeks



lacnic News

Casa de Internet Cooperation Cybersecurity Events IPv6
Internet governance LACNIC Policies Research Training

RESEARCH ← LACNIC NEWS HOME

Share Tweet Me gusta Compartir

Cambar tamaño de fuente: 12

INSTITUTIONAL

30/09/2019

LACNIC Presents Inforedes: the Single Window for Open Data from Internet Resources

<https://prensa.lacnic.net/news/en/research/lacnic-presents-inforedes-the-single-window-for-open-data-from-internet-resources>

InfoRedes



- <https://inforedes.labs.lacnic.net>
- Product manager: Guillermo Cicileo / guillermo@lacnic.net



The screenshot shows a web browser window for inforedes.labs.lacnic.net. The page has tabs for ESPAÑOL, ENGLISH, and PORTUGUÊS. The main content area displays the lacnicinforedes logo and a search bar containing the prefix `2001:67c:2e8::/48`. Below the search bar is a note: "Tu red: AS3333 2001:67c:2e8::/48" and a link to "Prueba alguno de estos ejemplos: Prefijo IPv4, Prefijo IPv6, Rango IPv4, ASN". A navigation bar below the search bar includes buttons for Vista Rápida, Enrutamiento, DNS, Anti Abuso, Registro, Geolocalización, Actividad, and Sugerencias. Two main sections are visible: "Prefix Overview (2001:67c:2e8::/48)" which includes routing information and RPKI status, and "Maxmind GeoLite (2001:67c:2e8::/48)" which shows a world map with a highlighted location.

NetOX - Network Operators Toolbox



- <https://netox.apnic.net>
- Product manager: Sofia Silva Berenguer / sofia@apnic.net



The screenshot shows the APNIC NetOX search results for AS3333. The search bar contains "AS3333". The results are categorized under "At a Glance":

- AS Overview (AS3333)**:
 - Routing information (RIS)
 - Originates prefixes visible
 - Is seen in other routes
 - Name and holder of this ASN:
RIPE-NCC-AS - Reseaux IP Européens Network Coordination Centre (RIPE NCC)
 - RIR: RIPE NCC
 - Status: ASSIGNED
 - Registration: 2001-01-01
 - Country: FR
- Whois Matches (AS3333)**:
 - Whois results (1):

aut-num	3333
as-name	RIPE-NCC-AS
descr	Reseaux IP Européens Network Coordination Centre (RIPE NCC)
org	ORG-RIEN1-RIPE
status	ASSIGNED
RIPE NCC END-POINT	
 - Show more fields



Questions

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