

RIPE

RIPE ATLAS

IR-NOG First Meeting

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IRANIAN NETWORK OPERATORS GROUP

What is RIPE ATLAS ?

RIPE Atlas is a global network of probes that measure Internet connectivity and reachability, providing an unprecedented understanding of the state of the Internet in real time.

There are thousands of active probes in the RIPE Atlas network, and it is continually growing. The RIPE NCC collects data from this network and provides Internet maps, data tools and visualisations based on the aggregated results. RIPE Atlas users who host a probe can also use the entire RIPE Atlas network to conduct customised measurements that provide valuable data about their own network.

URL : <https://atlas.ripe.net>



How We Collect Data

RIPE Atlas **probes** are small, USB-powered hardware devices that hosts attach to an Ethernet port on their router via a network (UTP) cable. They conduct different measurements and relay this data to the RIPE NCC, where it is aggregated with data from the rest of the RIPE Atlas network



What Can I Do With RIPE Atlas?

- Continuously monitor network reachability from thousands of vantage points around the globe
- Investigate and troubleshoot network issues with quick, flexible connectivity checks
- Create alarms using RIPE Atlas status checks, which work with your own monitoring tools
- Check the responsiveness of DNS infrastructure, such as root name servers
- Test IPv6 connectivity.

Types of measurements

- ping,
- traceroute,
- SSL/TLS,
- DNS,
- NTP
- HTTP

Benefits

The **Internet community** can access RIPE Atlas data in a number of formats, including Internet maps, visualisations and tools, and use it for their own purposes.

RIPE Atlas hosts aren't only helping to create the world's largest Internet measurement network – they also earn credits they can use to conduct their own customised measurements using the entire RIPE Atlas network, which can provide valuable information about the performance of their own network.



Background and Vision

We believe this data is valuable for network operators, researchers, the technical community, and anyone interested in the healthy functioning of the Internet who wants to learn more about the underlying networking structures and data flows that keep the Internet running globally.



List of Anchors



Statistic

Statistics

Probes connected	9748
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Anchors connected	258
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Measurements running	14195
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Results per second	4464
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Questions?



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