

10 Years of RIPE Atlas

State of RIPE Atlas in India

About me

- RIPE Atlas Ambassador
- APNIC Community Trainer
- Speaker in the NOG's and security community in the Asia Pacific region and most recently has presented at 2020 FIRST Virtual Symposium for Latin America and Caribbean, APNIC 50, UKNOF July, APNIC NFH SEA, LKNOG3.
- Founder & CEO, Shreshta IT

Report - RIPE Atlas probes - India

As on August 2020

- 16 probes - Never connected
- 32 probes - Disconnected
- 159 probes - Abandoned
- 88 probes - Connected - Not enough!

Report - RIPE Atlas probes - India

As on November 2020

- 16 probes - Never connected
- 30 probes - Disconnected
- 169 probes - Abandoned
- 117 probes - Connected - (Again, Not enough but an excellent uptick!)
Of the lot, 27 are software probes

RIPE Atlas software probes FTW!

- Raspberry Pi
- NUC
- VPS, dedicated servers

Use Case - DNS Measurement

- AS55836 - vowifi.jio.com

I faced the same issue on not only my OnePlus 7 device but also iPhone with Jio as well as Airtel VoWifi, not working properly. I have a You Broadband connection, and since from time to time the DNS servers provided by this ISP donot respond, I had long back switched to 1.1.1.1, 1.0.0.1 DNS service by cloudflare. By my analysis, Cloudflare as well as OpenDNS alongwith DNS servers provided by You Broadband do-not enable VoWifi on either of devices.

I switched to Google DNS which is 8.8.8.8, 8.8.4.4 and viola, after restarting router and phone, the VoWifi worked. Give it a shot, and change the DNS in your router...it may help.

- Source: <https://forums.oneplus.com/threads/jio-vowifi-not-working-in-india.1168433/>
- `ripe-atlas measure dns --query-type A --query-argument vowifi.jio.com --probes 100 --no-report --from-country in`

- Measurement - <https://atlas.ripe.net/measurements/25445357>
- abuf -- answer payload buffer from the server, UU encoded (string)
- Let's decode the abuf value using Python and parse the results
- Python modules used for parsing - ripe.atlas.sagan , ripe.atlas.cousteau , cymru.ip2asn.dns

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