

2 October 2023

MANRS @ LACNIC 40/LACNOG 2023
MANRS Community Meeting #12



Promoting MANRS in Brazil

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Program for a Safer Internet

Objectives

Act in support of the Internet technical community

- Reduction of Denial of Service attacks
- Improving Network Routing Security
- Spread DNS security best practices
- Disseminate best security practices for configuring websites and email services
- Encourage the implementation of IPv6 in final users and services on the network



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Plan of Actions



Actions Performed by NIC.br

- Several internal departments of NIC.br participate in the Program (CERT.br, CEPTRO.br, Registro.br, IX.br, Systems)
- **Creation of teaching materials**
- Raising awareness in the technical community through lectures, courses and training
- **Direct interaction with network operators through bilateral meetings to explain how to implement the best practices recommended in each situation**
- Definition of KPIs to monitor the effectiveness of actions

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Bilateral meetings with ISPs and incumbents



Bilateral online meetings with those responsible for the ASes with the highest number of IP addresses notified

Program actions discussed in bilateral meetings:

- Correction of misconfigured services reported by CERT.br, which can be abused to take part in DDoS attacks
- **Adoption of Good Routing Practices (MANRS)**
- Verification of adoption of best configuration practices recommended by TOP (final user, Web Site and E-mail services)
- **Presentation of measurements, by AS, on the status of adoption of recommended good practices (MANRS Observatory, TOP, Internal Tools)**

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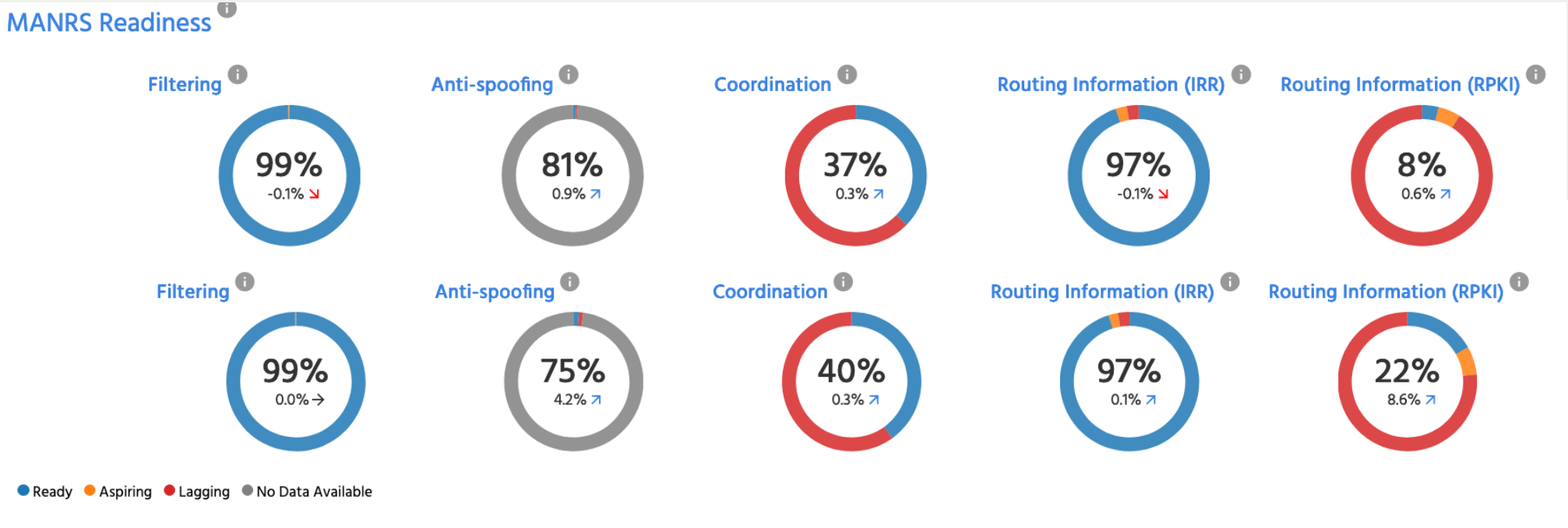
MANRS Participants in Brazil



286 Netops Participants serve Brazil (54 new in 2023!)

2022

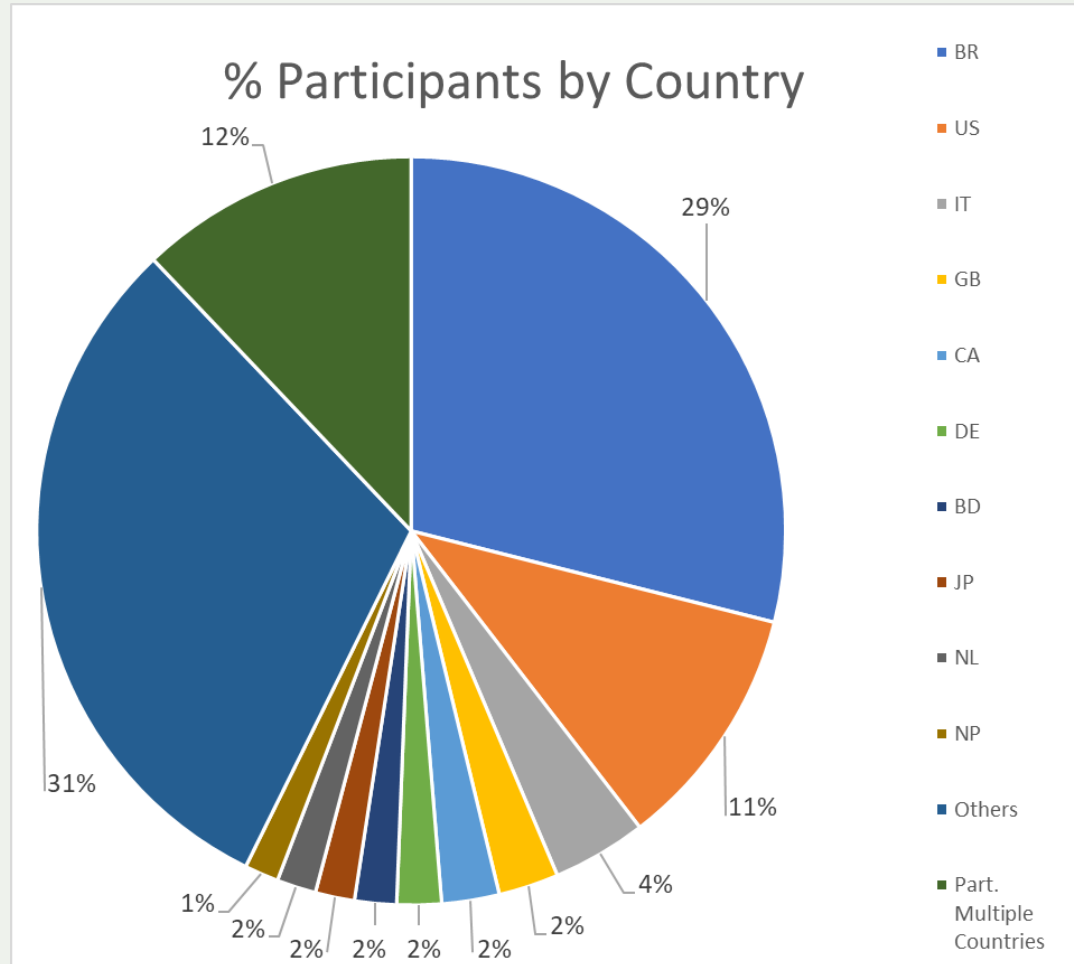
2023



— -6% +3% — +14%

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Statistics of MANRS Participants by Country



Total of MANRS participants: 885

Participants in Brazil: 256 (Set/23)

206 (2022)

174 (2021)

140 (2020)

Source: <https://www.manrs.org/netops/participants/> Acess set/23