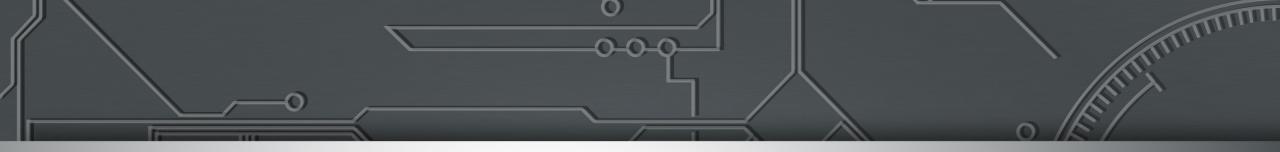


# niebr egibr Certur

Dr. Cristine Hoepers **General Manager** OCSC 2024, Santa Cruz de Tenerife



## Initiatives in the Americas and in Latin America & the Caribbean



### **The Americas**

### Latin America & the Caribbean



Some accronyms

#### LATAM – Latin America

"Latin" speaking countries (Portuguese, Spanish and French)

#### LAC – Latin America & the Caribbean

LATAM + Caribbean + Suriname and Guiana

#### LACNIC

The Latin American and Caribbean Internet Addresses Registry

Source: https://es.m.wikipedia.org/wiki/Archivo:Flag-map\_of\_the\_americas.png Source: <u>https://en.wikipedia.org/wiki/Latin\_America\_and\_the\_Caribbean</u> <u>https://en.m.wikipedia.org/wiki/File:Map-Latin\_America\_and\_Caribbean.png</u>



## **OAS: CSIRT Americas**

"Network of **Government** Cyber Incident Response Teams (CSIRT) of the Member States of the Organization of American States (OAS)" – https://csirtamericas.org/en/home

- Formal
- Teams appointed officially by the governments
- 22 countries from the region
- Maintained by Inter-American Committee against Terrorism (CICTE) of the Organization of American States (OAS)

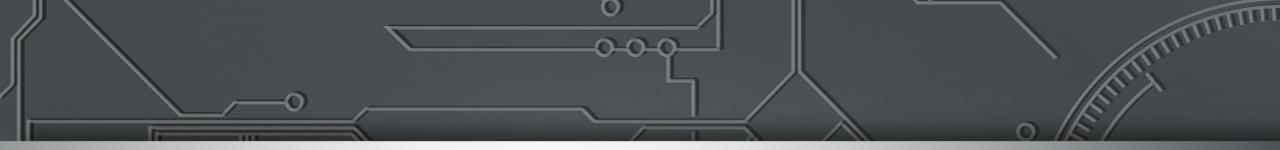
## LACNIC: LAC-CSIRTs

A space where teams from the LAC Region can meet and create trusted relationships

- Informal
- 2 meetings a year, during the LACNIC Conferences
  - Technical presentations and trainings
  - Once a year it is co-located with the FIRST Regional Symposium for the Latin America & the Caribbean
  - regular participation of APWG and  $M^3$ AAWG

nic

- LACNIC provides
  - meeting space and additional support for meetings
  - mailing list



## **Initiatives in Brazil**



### **Brazilian Internet in Numbers**

#### **Internet Users**

156 million citizens use the Internet daily

- 58% have access only via smartphones
- 51% conduct financial transactions online

Source: <u>https://cetic.br/pt/pesquisa/domicilios/indicadores/</u>

#### **Internet Service Providers (ISPs)**

11.630 ISPs (estimated)

Source: <a href="https://www.cetic.br/pt/pesquisa/provedores/indicadores/">https://www.cetic.br/pt/pesquisa/provedores/indicadores/</a>

#### Domains under the ccTLD <.br>

#### 5.274.576 registered domains

- 1.593.130 with DNSSEC

#### Source: <u>https://registro.br/dominio/estatisticas/</u>

#### Autonomous System Numbers (ASNs)

#### 8959 ASNs

- 2nd in the world (1st is USA)
- 67% of the ASNs in Latin America and Caribbean
- 63% of IPv4 and 69% of IPv6 in the region

Source: <u>https://www.lacnic.net/en/web/lacnic/estadisticas-asignacion</u> <u>https://pulse.internetsociety.org/blog/where-are-the-internet-networks</u>

#### Internet Exchange – IX.br

São Paulo PIX is the biggest in the world

- 2718 participants
- 21Tbps peak traffic
- 11Tbps average traffic

Source:

https://ix.br/trafego/agregado/sp

Data updated on Febraury 28, 2024



## **Regulatory Developments Related to Incident Management**

Two major drivers for organizations to invest in creating a CSIRT

- Data Protection Law, in effect since 2020
  - Requires an incident response plan and a formal incident report in case of data breach
- Presidential decree creating the National Incident Management Network (Regic)
  - Applies to the Critical Infrastructure Sector
  - Regulators must create a Sector CSIRT
  - Regulated organizations must have a CSIRT
  - Sectors must implement information sharing mechanisms
    - Telecom and Financial Sectors formalized the use of MISP
- National Cybersecurity Council
- Created at the end of 2023
- Will oversee
  - the National Cybersecurity Strategy
  - the National Cybersecurity Agency (Regulatory Agency Bill proposal in Congress)

## CERT.br Initiatives to Improve Maturity and Foster Cooperation

#### **Community Building**

- Annual National CSIRTs Forum since 2012
  - 444 attendees in 2023
  - 112 attendees in the SIM3 Tutorial
- Annual MISP Workshop since 2019
  - Training from CERT.br
  - Cases studies from the community
- Communication facilitation
  - MatterMost channels and Mailing lists for different communities

Training

- 20 years delivering SEI/CMU CERT Courses
  - 2400+ professionals trained

CSIRT Maturity, aka SIM3 :-)

– 2 Auditors trained

- Goal: evolve our current list of CSIRTs into a model more similar to a "*TI-like*" model <u>https://cert.br/csirts/brazil/</u>
- Use SIM3 profiles for Accreditation / Certification



## Thank You

