# CGI.br and CERT.br Initiatives in Incident Response

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# Overview

- about CGI.br and CERT.br
- history of Incident Response in Brazil
- CERT.br Initiatives
  - training, early warning, awareness
- CGI.br Initiatives
  - meetings/conferences for security and network communities (GTS/GTER)
  - iNOC-DBA BR
  - Task Force on Spam (CT-Spam)

# CGI.br

The Brazilian Internet Steering Committee (CGI.br)

- created by the Interministerial Ordinance Nº 147, of May 31st 1995
- altered by the Presidential Decree Nº 4,829, of September 3rd 2003

Is a multistakeholder organization composed of:

- nine Federal Government representatives
- four representatives of the corporate sector
- four representatives of the third sector
- three representatives of the scientific and technological community
- one Internet expert

# CGI.br (cont.)

Among the diverse responsibilities of the CGI.br, the main attributions are:

- to propose policies and procedures related to the regulation of Internet activities
- to recommend standards for technical and operational procedures for the Internet in Brazil
- to establish strategic directives related to the use and development of Internet in Brazil
- **to promote studies and technical standards for the network and services' security in the country**
- to coordinate the allocation of Internet addresses (IPs) and the registration of domain names using <.br>
- to collect, organize and disseminate information on Internet services, including indicators and statistics

# CGI.br (cont.)


cgi.br
Brazilian Internet Steering Committee
nic.br
Network Information Center
cert.br
Computer Emergency Response Team Brazil
registro.br
Domain Registration
ptt.br
Internet Exchange Points

# CSIRTs' History in Brazil

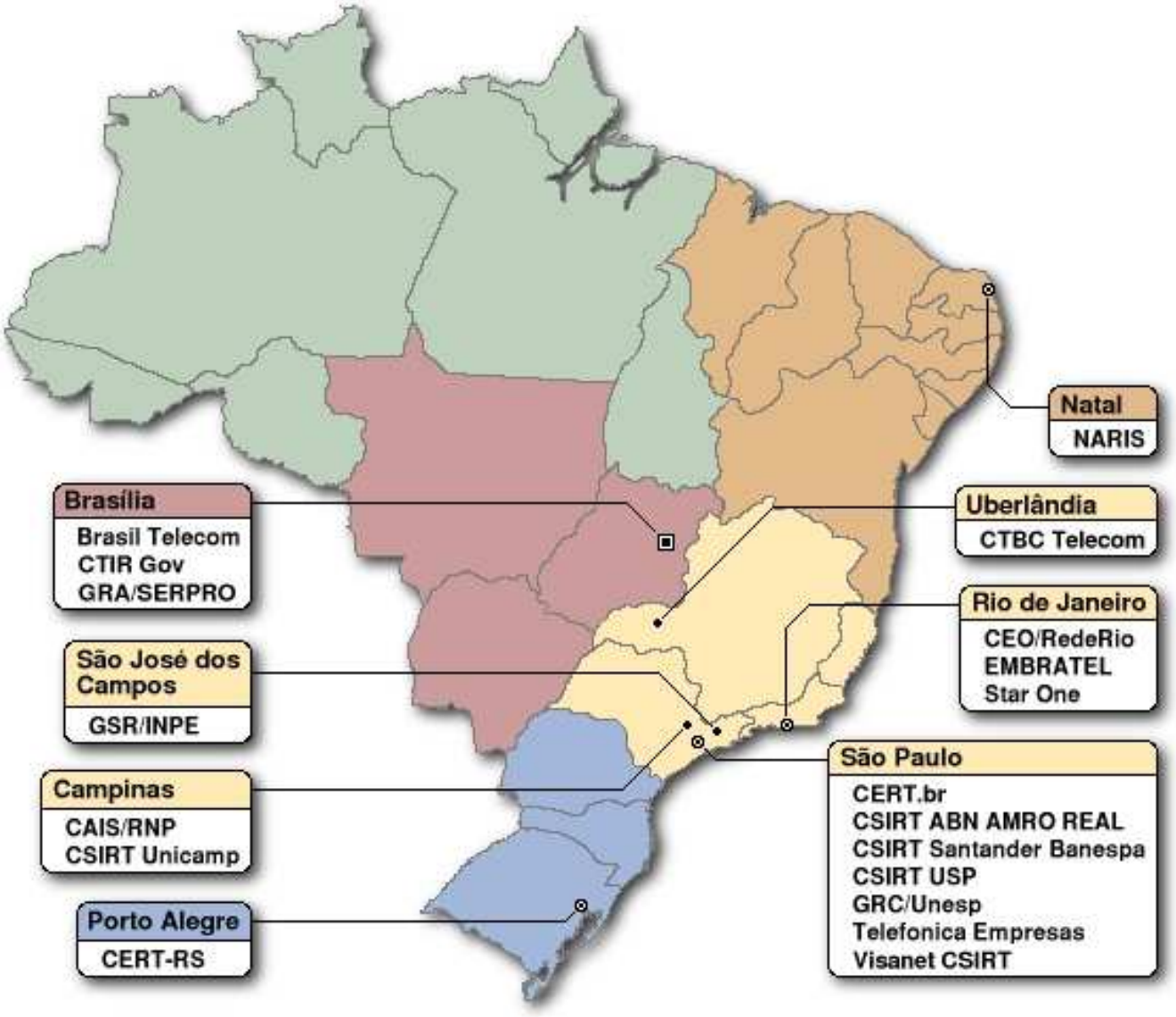
- August/1996: CGI.br released the document: "Towards the Creation of a Security Coordination Center in the Brazilian Internet." (*)
  - to be a neutral organization
  - to act as a focal point for security incidents in Brazil
  - to facilitate information sharing and incident handling
- June/1997: CGI.br created CERT.br (at that time called NBSO – NIC BR Security Office)

(*) http://www.nic.br/grupo/historico-gts.htm

# CSIRTs' History in Brazil (cont.)

- August/1997: the Brazilian Research Network (RNP) created it's own CSIRT (CAIS), followed by the Rio Grande do Sul State that created the CERT-RS
- 1999: other institutions including Universities and Telecommunication Companies announced their CSIRTs
- 2000: CERT.br started a CSIRT Development program based on speeches and meetings with key institutions
- 2003: more than 20 CSIRTs formed. Started a CSIRT contact Directory at CERT.br, available at: http://www.cert.br/contact-br.html
- 2004: the CTIR Gov was created, with the Brazilian Federal Government Networks as their constituency.

# Brazilian CSIRTs




http://www.cert.br/contact-br.html

# CERT.br Activities

- provide a focal point for reporting incidents related to Brazilian networks (.br domain and IPs assigned to Brazil)
- produce security best practices documents in Portuguese
  - for end users (http://cartilha.cert.br/)
  - for network and system administrators (http://www.cert.br/docs/seg-adm-redes/)
- maintain statistics (incidents and spam)
- increase security awareness and help new CSIRTs to establish their activities

# CERT.br Initiatives

CERT.br is a Software Engineering Institute Partner and has licensed 4 CERT/CC courses to deliver in Brazil:

- Creating a Computer Security Incident Response Team
- Managing Computer Security Incident Response Teams
- Fundamentals of Incident Handling
- Advanced Incident Handling for Technical Staff

140+ people trained

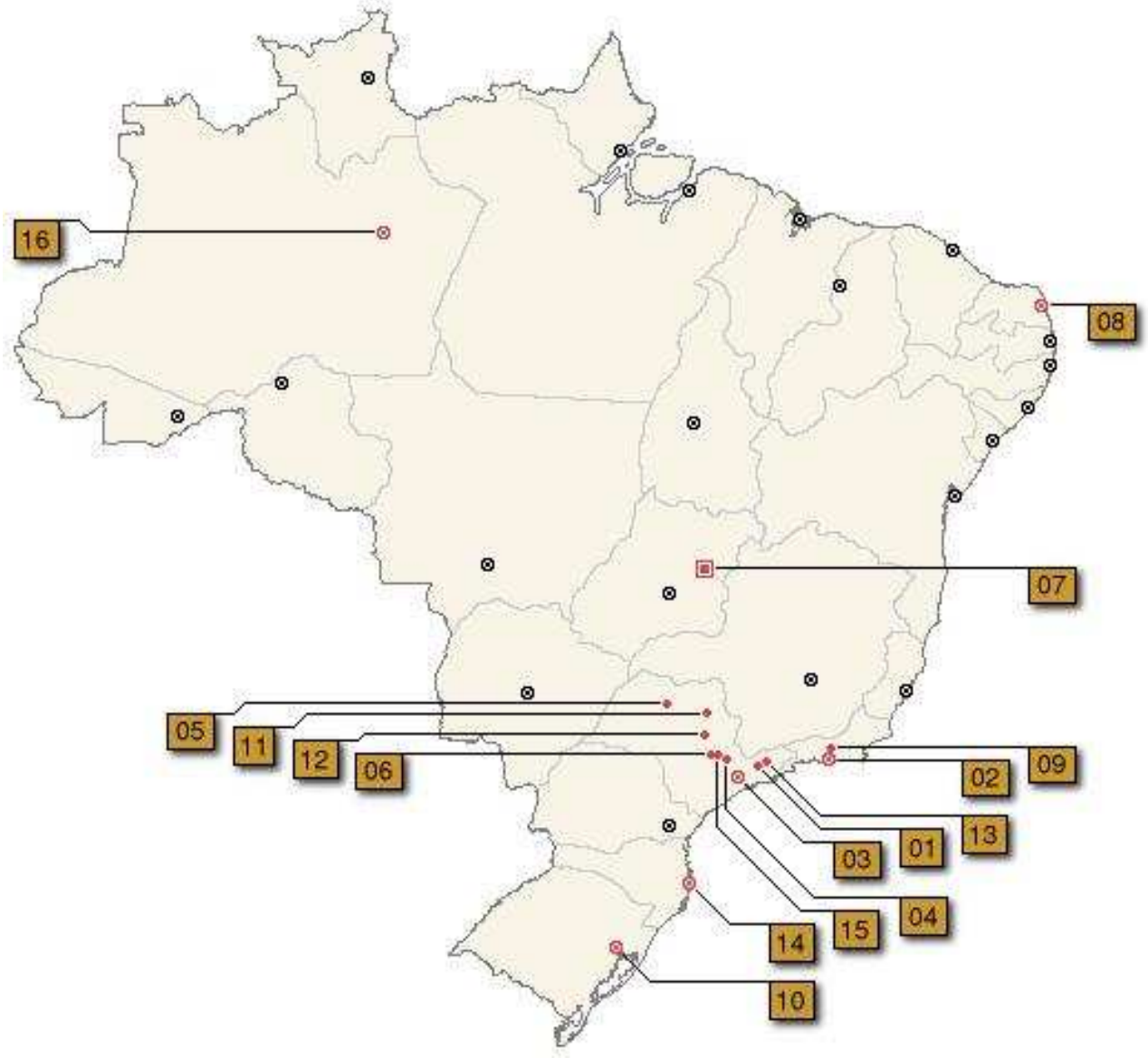
# CERT.br Initiatives (cont.)

Brazilian Honeypots Alliance – Distributed Honeypots Project

- coordination: CERT.br and CenPRA/MCT
- 27 research partner's institutions:
  - academia, government, industry, military and telcos networks
- widely distributed across the country
  - in several ASNs and geographical locations
- based on voluntary work of research partners
- public statistics
  - combined daily flows seen in the honeypots

http://www.honeypots-alliance.org.br/

# The Honeypots Network (cont.)




Cities where the honeypots are located.

# CERT.br Initiatives (cont.)

Use of the honeypots data in Incident Response

- identify signatures of well known malicious/abusive activities
  - worms, bots, scans, spam and other malware
- notify the responsible networks of the Brazilian IPs
  - with recovery tips
- donate sanitized data of non-Brazilian IPs to other CSIRTs

# CERT.br Initiatives (cont.)

International cooperation:

- FIRST full member (http://www.first.org/)
- Honeynet Research Alliance member (http://project.honeynet.org/alliance/)
- Anti-Phishing Working Group Research Partner (http://www.antiphishing.org/)
  - detect malware enabled fraud
  - notify hosting sites
  - send samples to 20+ AV vendors

# CGI.br Initiatives

- sponsors 2 meetings/conferences free of charge per year, to the security and network communities (GTS/GTER)
- iNOC-DBA BR – project to stimulate Brazilian networks to join the iNOC-DBA global network
  - 100 IP phones where provided to ASNs
  - 20 IP phones where provided to CSIRTs recognized by CERT.br

iNOC-DBA – global hotline phone system which directly interconnects the Network Operations Centers and Security Incident Response Teams

# CGI.br Initiatives (cont.)

Task Force on Spam (CT-Spam)

- to propose a national strategy to fight spam
- to articulate the actions among the different actors
- documents created
  - “Technologies and Policies to Fight Spam”
  - technical analysis of international antispam laws and brazilian proposals of new laws