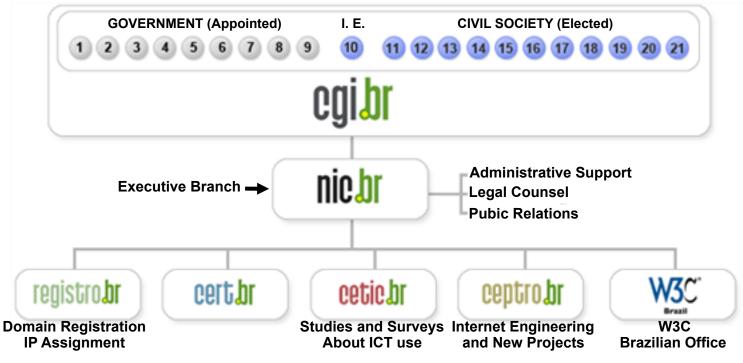




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CGI.br and NIC.br Structure



- 1 Ministry of Science and Technology (Coordination)
- 2 Ministry of Communications
- 3 Presidential Cabinet
- 4 Ministry of Defense
- 5 Ministry of Development, Industry and Foreign Trade
- 6 Ministry of Planning, Budget and Management
- 7 National Telecommunications Agency
- 8 National Council of Scientific and Technological Development
- 9 National Forum of Estate Science and Technology Secretaries
- 10 Internet Expert

- 11 Internet Service Providers
- 12 Telecommunication Infrastructure Providers
- 13 Hardware and Software Industries
- 14 General Business Sector Users
- 15 Non-governmental Entity
- 16 Non-governmental Entity
- 17 Non-governmental Entity
- 18 Non-governmental Entity
- 19 Academia
- 20 Academia
- 21 Academia

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CERT.br Activities



Incident Handling

- Coordination
- Facilitation
- Support
- Statistics

Training and Awareness

- Courses
- Presentations
- Documents
- Meetings

Network Monitoring

- Distributed Honeypots
- SpamPots







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http://www.cert.br/about/



Incident notifications: the challenge



The challenge:

REPORTING

- Why should I notify?
- To whom?
- What information to include?
- How to find the right contacts?
- How to report?

HANDLING

- Who has sent this message?
- Why am I receiving this?
- What is the issue?
- Where are the evidences?
 - Logs saved as jpeg?!
 - No timestamps!
- What is expected from us?



How to make things better?



How to make things better?

GOAL

- make the notifications more understandable and easier to write;
- turn the incident handling process more effective.

A public document (Creative Commons) covering:

- Why to report incidents
- How to select the right contacts
 - Understanding the incident
- Where to look and how to search for contacts
 - WHOIS search samples
- How to write, format and send a notification
 - DO's and DON'Ts
 - Set of templates



Some highlights



Recommendations for Incident Notifications

- Notifying Security Incidents
- What to notify
- Whom to notify
- Searching contacts
 - WHOIS
 - CSIRTs
 - Creating and maintaining your own database
 - Top-Level Domains (TLDs)
- Notification methods and format
- What to include in a notification
- Appendix A WHOIS Query Examples
- Appendix B Notification Templates

What to notify

Some common incidents

- Network scan, brute force, vulnerability exploitation attempt
- Defacement
- Rogue DNS
- Malicious artifacts
- Phishing
 - Regular / geolocation
 - Pharming
- Denial of service attacks
 - Botnet attack
 - Amplification by service abuse
- Sensitive data breaches
- Malicious domains

Whom to notify

- Selecting the right contacts is key:
 - To avoid delays, discarded notification, inefficiency
 - Depends mainly on the characteristics of the incident
 - Not alerting the perpetrator
- Where to find contacts:
 - WHOIS databases => Appendix A WHOIS Query Examples
 - CSIRTs contact lists
 - Your own database (creating and maintaining)
 - IANA root zone database (all TLDs and new gTLDs)

What to include

DO's and DON'Ts:

- Text format (avoid data in .jpg, .gif, .xls. .pdf, etc.)
 - Makes it difficult to read and automate
- Avoid long lines (easy reading)
- Timestamps:
 - Time zone matters
 - Synchronization is essential (use NTP)
- Sanitize data (e.g. PII)
- Use cryptography when sending sensitive information
 - PGP is the de facto standard among CSIRTs
- Avoid legal jargon, accusations and retaliation
 - Better try the cooperation approach

What to include

General recipe:

- Salutation
- Short introduction about who's writing and to whom the message is intended for
- Problem description including:
 - Concise explanation
 - Evidences (logs with time stamps and time zone information)
 - Additional information for clarification (when necessary)
- Expected actions
- Polite closure / thanks in advance
- Short signature

Templates

- Appendix B Notification Templates
 - Preamble
 - template purpose
 - options that apply
 - how to use
 - Template with tags for tailoring / customizing
 - Portuguese and English
 - Spanish coming soon? ;-)

Release date: first half of June

Thank You www.cert.br

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