

Port 25 Management in Brazil or how Brazil left the CBL Top 10

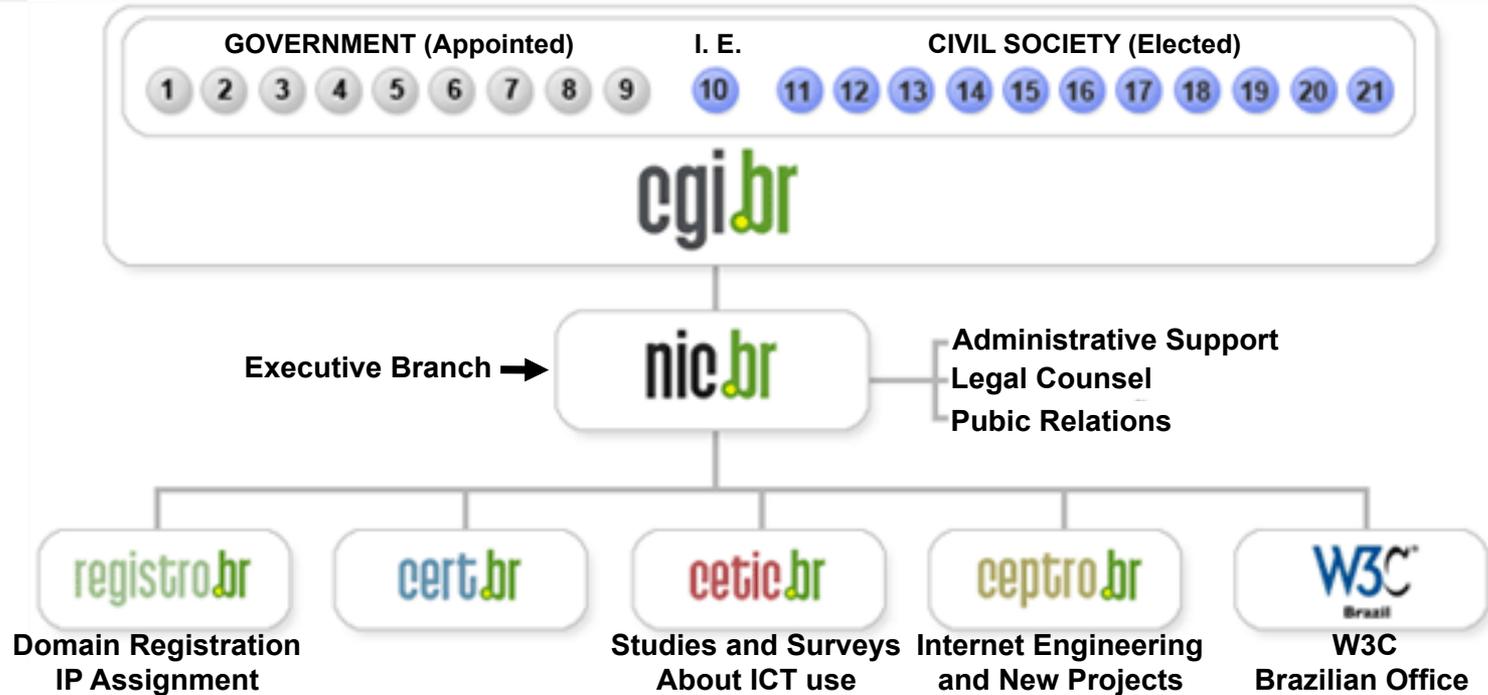
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Computer Emergency Response Team Brazil - **CERT.br**

Network Information Center Brazil - **NIC.br**

Brazilian Internet Steering Committee - **CGI.br**

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

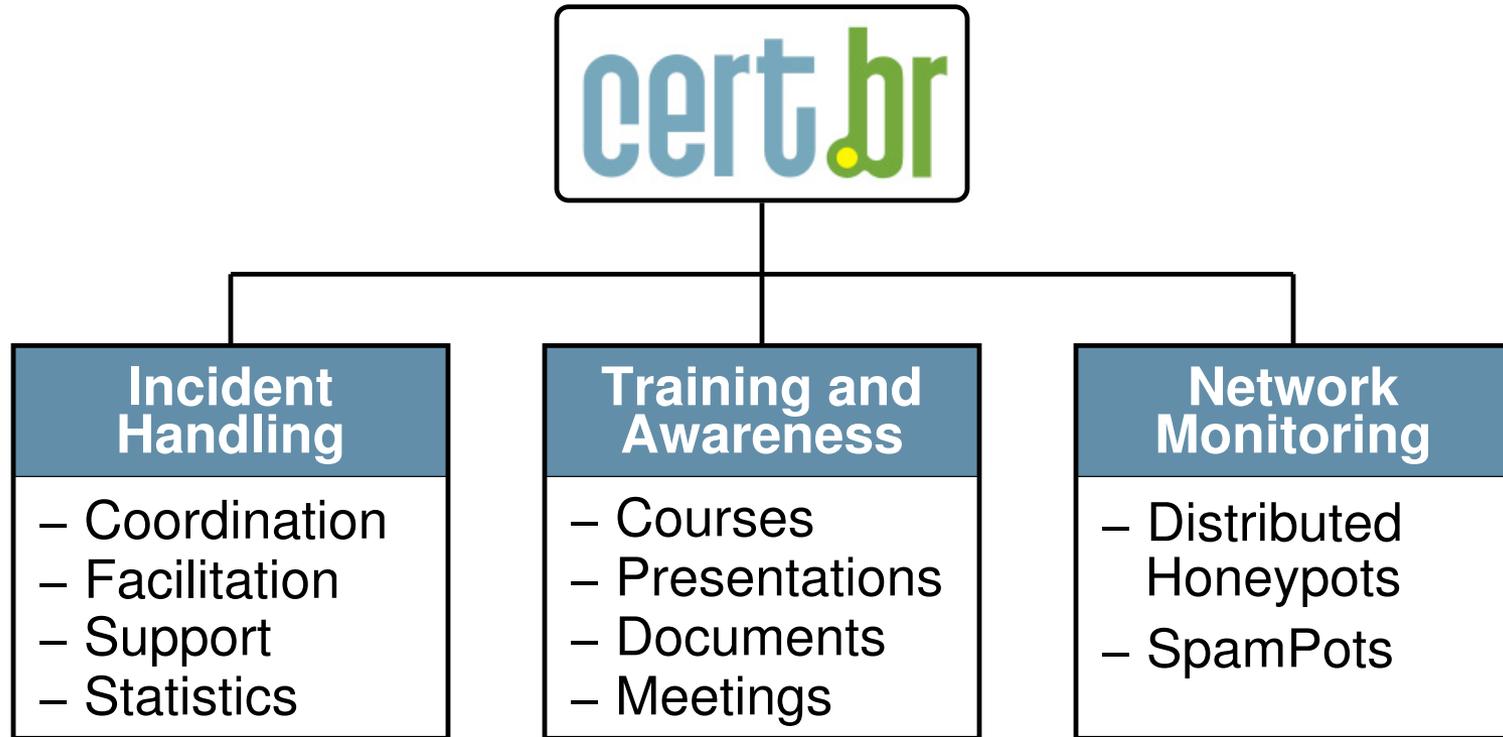
The Brazilian Internet Steering Committee - CGI.br

CGI.br is a multi-stakeholder organization created in 1995 by the Ministries of Communications and Science and Technology to coordinate all Internet related activities in Brazil.

Among the diverse responsibilities reinforced by the Presidential Decree 4.829, has as the main attributions:

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

CERT.br Activities



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

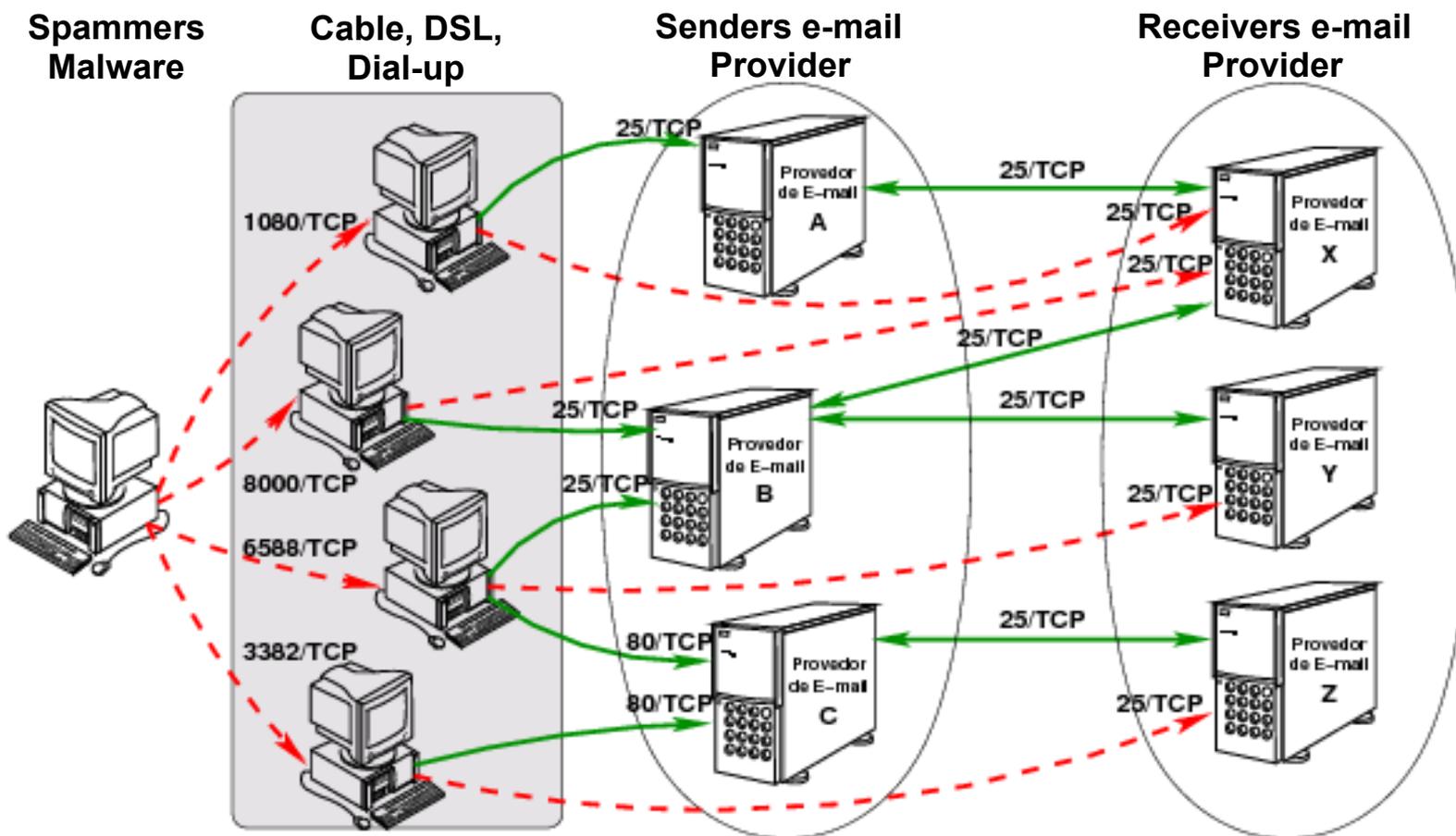
Agenda

- **What is the problem in question**
- **What is port 25 Management**
- **How Brazil left the CBL Top 10**
 - Antispam Task Force work
 - Port 25 management adoption agreement
 - Results
- **Related presentations from past meetings:**
 - <http://www.cert.br/docs/palestras/certbr-nationalcsirts2010.pdf>, 2010 Miami
 - <http://www.cert.br/docs/palestras/certbr-national-csirts-meeting2008.pdf>, 2008 Vancouver
 - <http://www.cert.br/docs/palestras/certbr-spampots-national-csirts-meeting2007.pdf>, 2007 Madrid

What is the Problem

Direct delivery coming from end user machines

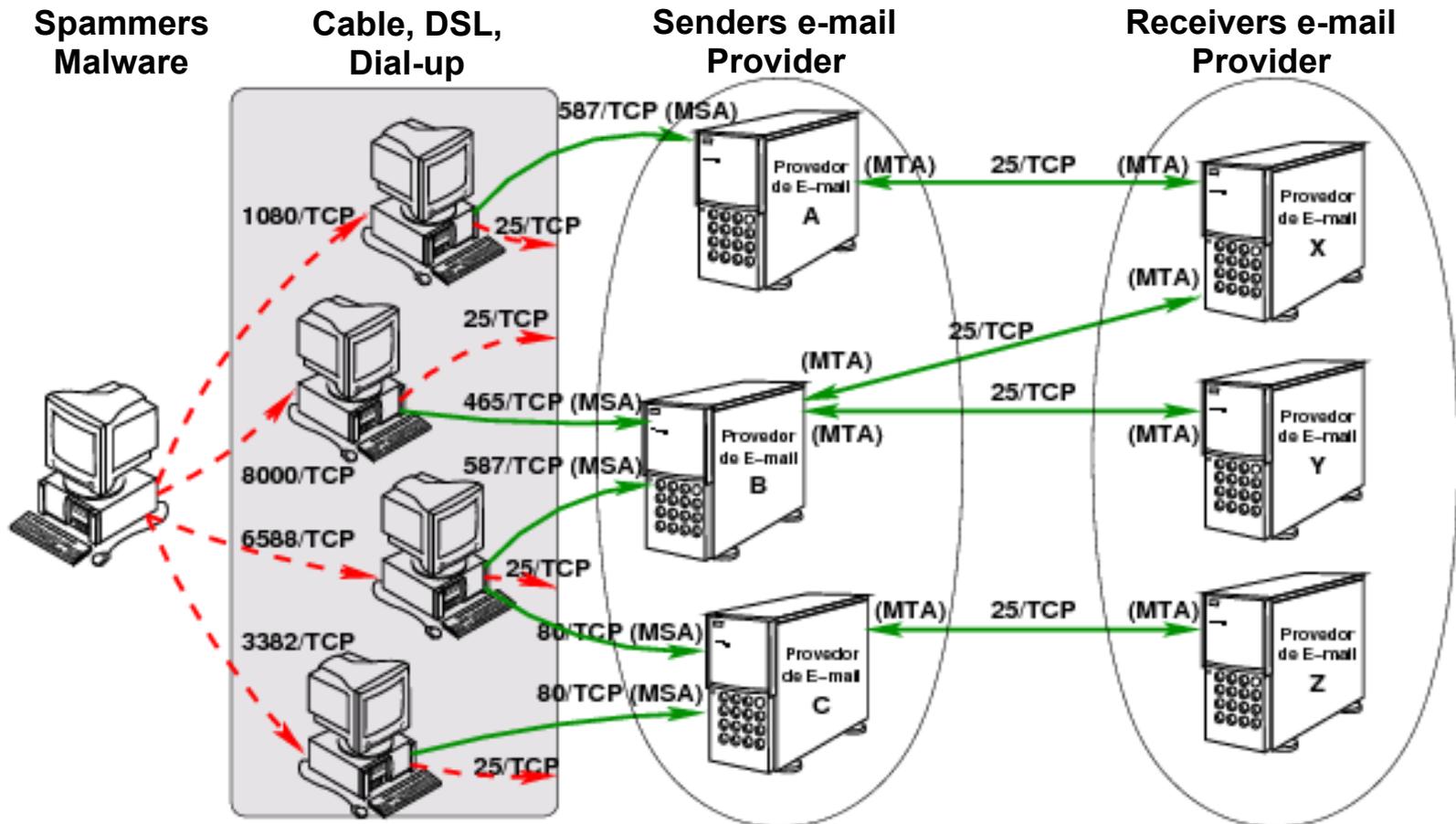
- spammers use spambots to send spam anonymously



What is Port 25 Management

In short: Message Submission enforcement in home and mobile networks

- RFC 5068 / BCP 134: *Email Submission Operations: Access and Accountability Requirements*



Anti-spam Task Force – Port 25 Management Working Group

- **Common Goal: reduce the abuse of the Internet infrastructure in Brazil by spammers**
 - Brazil was being appointed as a big “source” of spam
 - Brazilian networks were being affected negatively
 - Make it more difficult to abuse Brazilian networks – increase the “cost” for spammers
- **A multi-stakeholder effort coordinated by CGI.br**
 - Initially: Telcos, ISPs and Associations of these sectors, Telecom Regulator, the CGI.br representatives for these sectors and CERT.br
 - Players identified in further meetings: Federal Prosecutor’s Office, Consumer Defense organizations and Ministry of Justice
- **Sensitive issues:**
 - Competitive issues among ISPs and Telcos
 - No one would admit how big the problem really was and what was the real impact for the infrastructure or the consumers

Regular Meetings to Negotiate Port 25 Mgmt Adoption

- **Port 25 Management in Brazil depended on a coordinated effort:**
 - **1st: Mail service providers offering Message Submission services and changing at least 90% of their clients to the new configuration**
 - **2nd: Telcos blocking outbound port 25 traffic – home and mobile networks only**
- **A formal implementation agreement was signed**
 - **CGI.br, NIC.br, Telecom Regulator, Telcos and ISP Associations**
 - **The consumer protection associations supported formally the agreement**
- **Once the agreement was signed, NIC.br/CERT.br started a national awareness campaign about**
 - **the importance of these measures**
 - **the impact on the consumers**
 - **as part of the Antispam.br Campaign**

Campaign Main Banner

Configure a
porta de envio
de suas mensagens para

587!

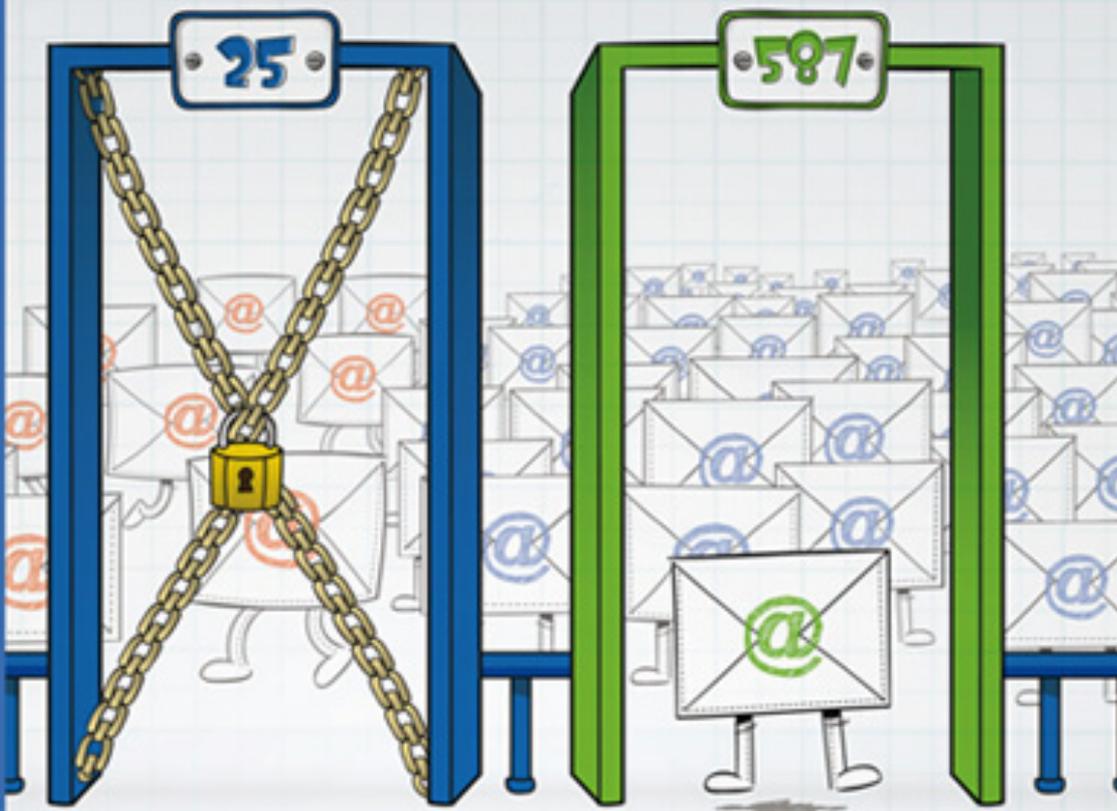
Com a Gerência da Porta 25, o Brasil vai reduzir o volume de spams enviados em nosso país.

Você ajuda o Brasil a melhorar a Internet e ainda evita dores de cabeça.

Conheça neste site mais detalhes do Gerenciamento da Porta 25.

Afinal, quem tem que ficar de fora são os spams, e não você!

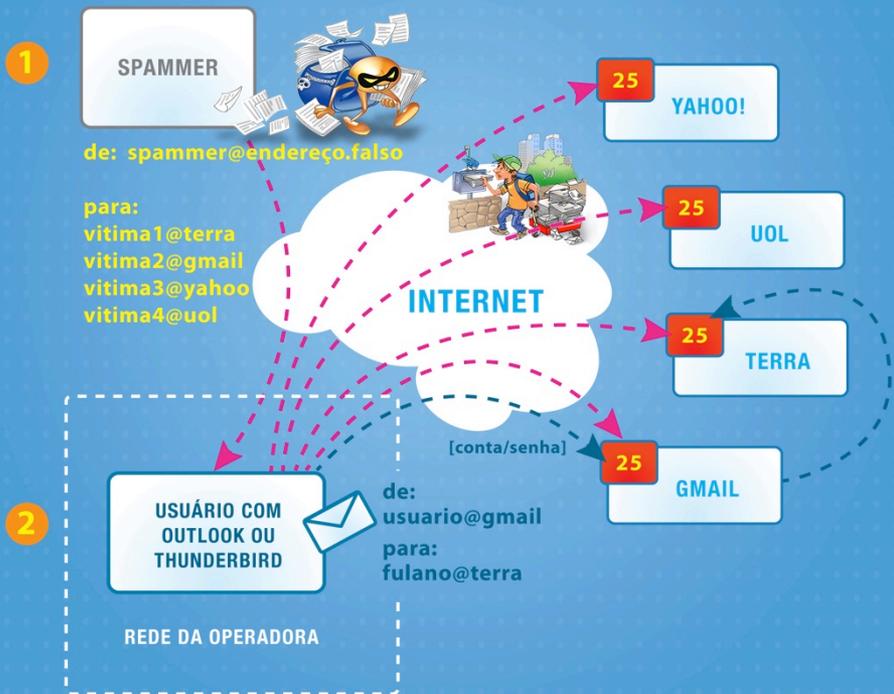
Feche a porta para os spams!



Graphic Explanations about the Change

COMO É HOJE

PARA QUEM USA LEITORES DE E-MAIL
(Outlook, Thunderbird, etc.)



1 Historicamente, tanto a troca de mensagens entre servidores de e-mail quanto a submissão de e-mails de clientes para o seu provedor sempre foram feitas pela porta 25. Essa característica é abusada por spammers, que usam computadores de todo o mundo se fazendo passar por servidores de e-mail.

2 O Brasil tem sido classificado como um dos países com o maior número de máquinas sendo abusadas ou infectadas por códigos maliciosos que

COMO VAI FICAR

PARA QUEM USA LEITORES DE E-MAIL
(Outlook, Thunderbird, etc.)



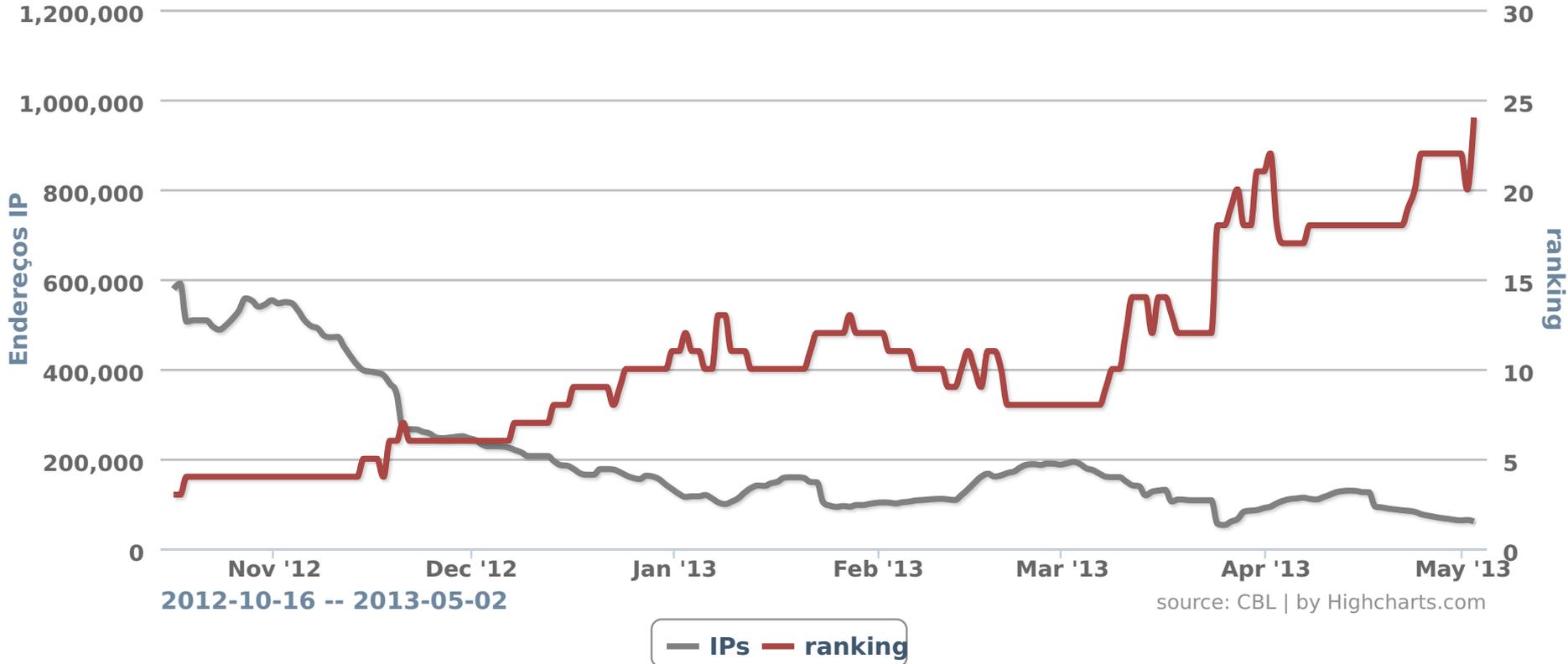
3 Com a troca da configuração do programa cliente de e-mails para a porta 587, adotada em vários países nos últimos anos, as redes que fornecem acesso residencial podem impedir conexões com destino à porta 25, cessando o abuso sem afetar o consumidor.

4 A troca de mensagens entre servidores continua ocorrendo na porta 25.

Results

From CBL 1st in 2009 to 25th in May 2013

Brasil (BR) na CBL
IPs listados e evolução no ranking



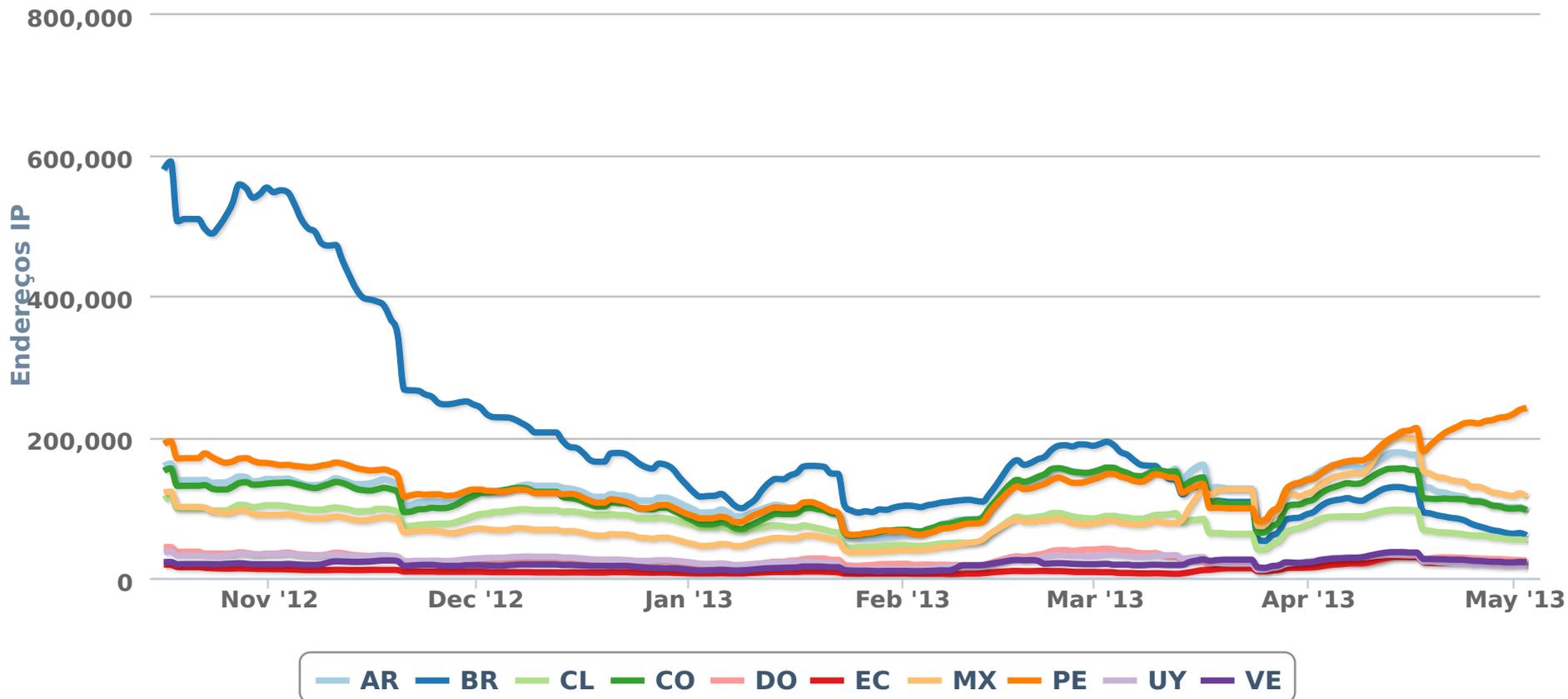
The deadline for the implementation was March 2013

Situation in Other Countries

Comparison of the top LAC Countries in CBL

CCs da América Latina na CBL: Endereços IP listados

2012-10-16 -- 2013-05-02



source: CBL | by Highcharts.com

Peru (PE) na CBL
IPs listados e evolução no ranking



México (MX) na CBL
IPs listados e evolução no ranking



Argentina (AR) na CBL
IPs listados e evolução no ranking



Colômbia (CO) na CBL
IPs listados e evolução no ranking



Brasil (BR) na CBL
IPs listados e evolução no ranking



Chile (CL) na CBL
IPs listados e evolução no ranking



CBL – June 22nd 2013

Country	Listings	% total	% Total Listings	% cumulative Total Listings	Rank	Traffic	% Traffic	Spams/Bot	Size(K)	Infect %
Total	7583008	100				225812364	100	29.78		
IN	1250420	16.49	16.49	16.49	1	3669473	1.63	2	46674.3	2.616%
CN	795037	10.48	10.48	26.97	2	1993050	0.88	2	518985.6	0.150%
IR	551896	7.28	7.28	34.25	3	1095366	0.49	1	17963.1	3.000%
VN	453461	5.98	5.98	40.23	4	6277549	2.78	13	20367.7	2.174%
RU	331348	4.37	4.37	44.60	5	872129	0.39	2	63316.1	0.511%
BY	296241	3.91	3.91	48.51	6	6240681	2.76	21	3180.0	9.097%
PE	269532	3.55	3.55	52.06	7	1130311	0.50	4	4920.2	5.350%
TR	224301	2.96	2.96	55.02	8	4215823	1.87	18	32501.8	0.674%
KZ	204533	2.70	2.70	57.72	9	1432664	0.63	7	5604.2	3.564%
US	188672	2.49	2.49	60.21	10	63401295	28.08	336	1692627.5	0.011%
TH	169167	2.23	2.23	62.44	11	2477136	1.10	14	16806.8	0.983%
UA	169073	2.23	2.23	64.67	12	2224446	0.99	13	17315.8	0.954%
DE	141282	1.86	1.86	66.53	13	28134907	12.46	199	118213.5	0.117%
IT	134886	1.78	1.78	68.31	14	3582810	1.59	26	51965.9	0.253%
MX	128478	1.69	1.69	70.00	15	1122289	0.50	8	31404.5	0.400%
⋮										
BR	63645	0.84	0.84	84.16	27	3673235	1.63	57	95805.8	0.065%

References

- **Managing Port 25 for Residential or Dynamic IP Space: Benefits of Adoption and Risks of Inaction**
http://www.maawg.org/sites/maawg/files/news/MAAWG_Port25rec0511.pdf
- **OECD Anti-Spam Toolkit of Recommended Policies and Measures**
http://www.oecd-antispam.org/article.php3?id_article=265
- **Antispam.br end user campaign**
<http://www.antispam.br/porta25/>

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<http://www.cgi.br/>
- **NIC.br**
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- **CERT.br**
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