

Núcleo de Informação e Coordenação do **Ponto BR**

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Comitê Gestor da Internet no Brasil

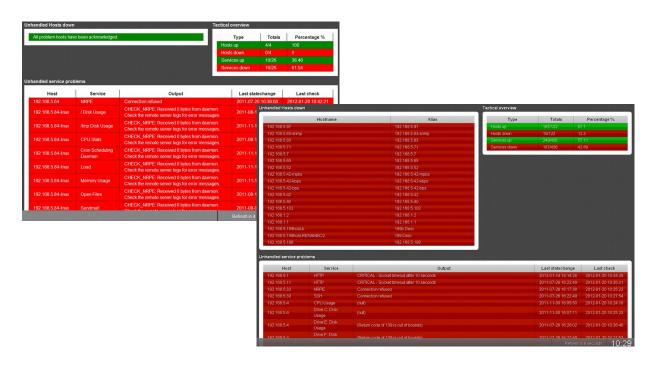


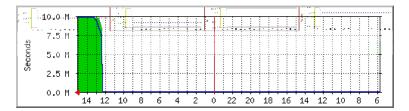


INOC-DBA











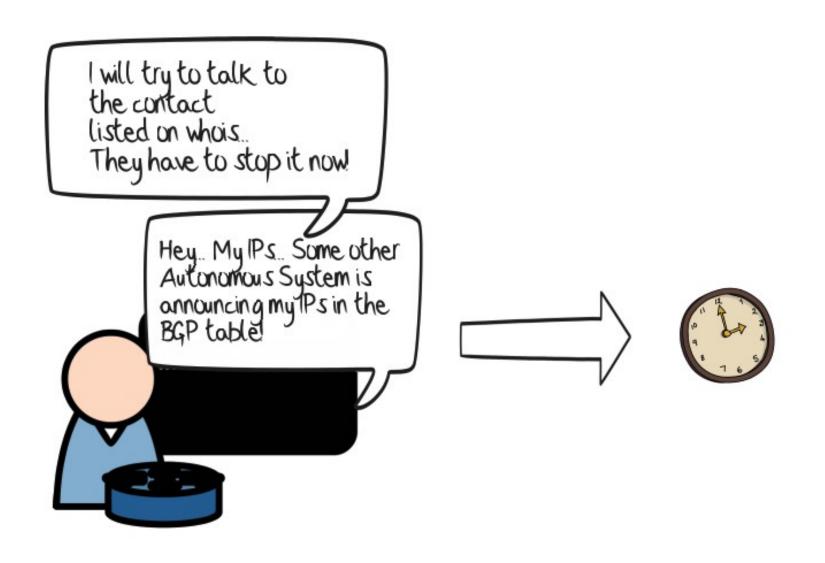
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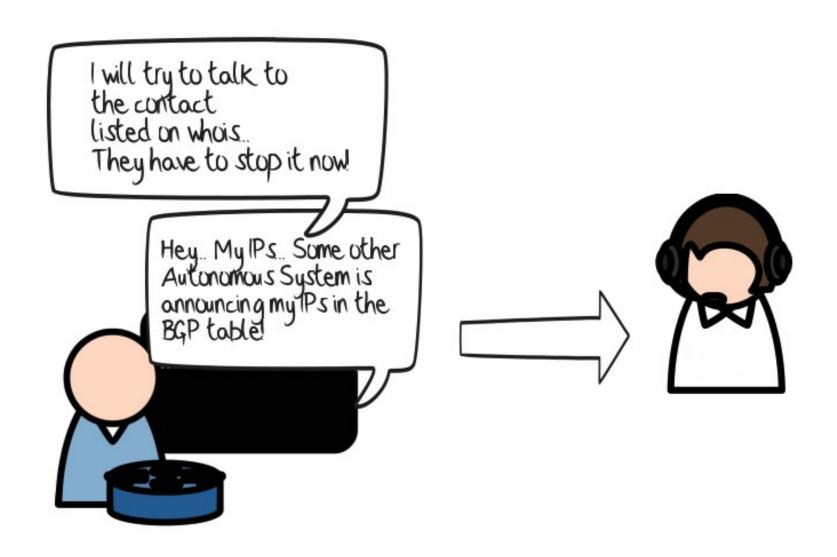




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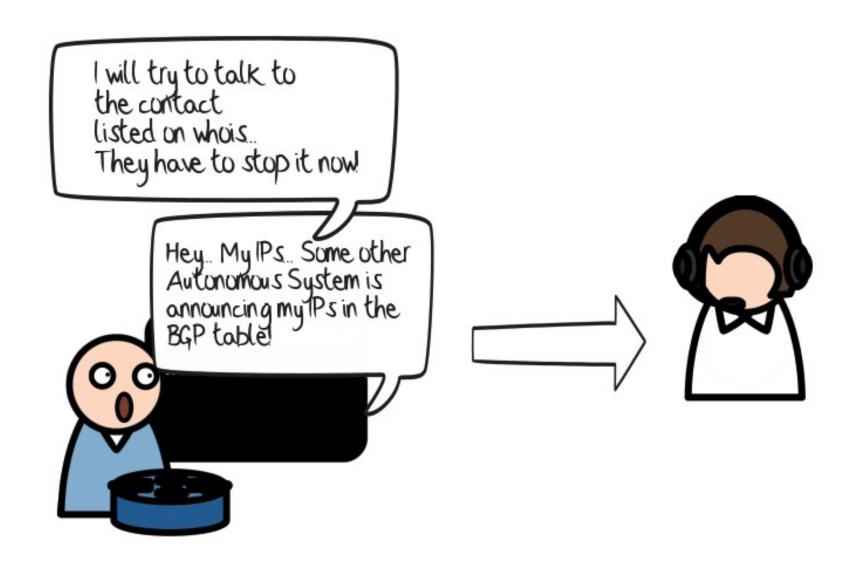


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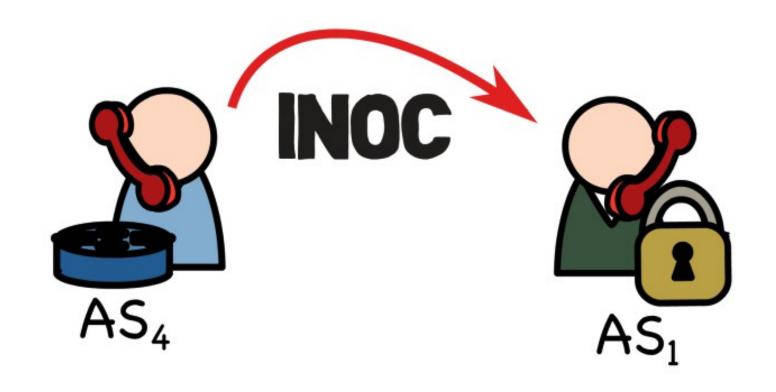


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INOC-DBA

INTER-NETWORK OPERATION CENTER

DIAL BY AUTONOMOUS SYSTEM NUMBER

Autonomous System number (ASN)

identification of the network in the global BGP routing

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routing problemssecurity incidentspeering agreements

NOCs

ceptrobr nichr cgibr





INOC-DBA (Inter-Network Operations Center Dial By ASN) is a hotline phone system created and operated by Packet Clearing House in 2002.



The INOC-DBA provides a direct and private way of communication between the **Network Operations Centers** and **Security Incident Response Teams** of the Autonomous Systems.

In other words... Is a communication shortcut to the people who can solve your problem.



 The heart of the INOC-DBA is the IETF-standard SIP protocol (RFC 3261), an open VoIP standard that has broad support.



SIP Protocol

- Act over TCP and UDP 5060 ports to negotiate sessions.
- Media exchanged via RTP protocol (RFC 1889) in a pair of UDP ports. In our case, between UDP 10000 and UDP 20000.
- Some problems with NAT.



HOW IT WORKS

Every INOC phone number is a composition of the AS Number with some choosen extension of three number, linked by the asterisk digit.

ASN*Extension



HOW IT WORKS

In order to simplify even more the communication, some standard extensions were stablished:

- ASN*100 NOC
- ASN*800 CSIRT



Supported by CGI.br and NIC.br, since 2005:

- independent server in Brazil
- Integrated (*) with PCH's INOC-DBA system
- NIC.br lended VoIP phones for ASs when it was necessary.



Asterisk

(open source software PABX)

- Multi codec and multi VoIP protocol support.
- Voicemail and conference room.
- URA and queues support.









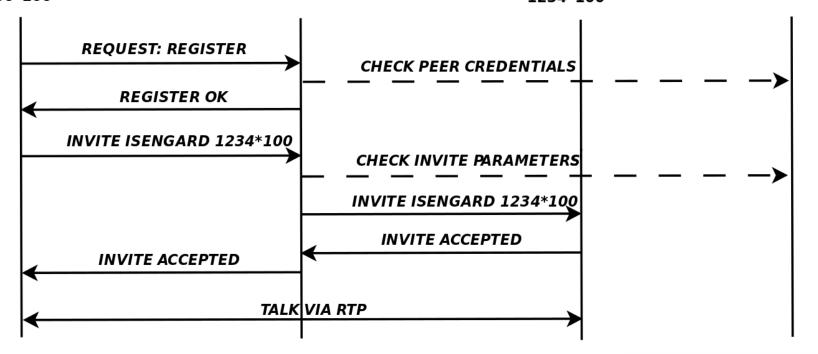


Mordor's NOC 6666*100

INOC-DBA BR ASTERISK SERVER

Isengard's NOC 1234*100

INOC-DBA BR DATABASE



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Linphone para PCs

O Linphone é um software livre e de código aberto disponível pa gratuitas, sendo um dos softphones mais usados atualmente. Hi é uma excelente escolha.



Zoiper para PCs

O Zoiper desktop é um softphone desenvolvido pela empresa bi opções de conferência de voz e videoconferência) e está dispon e amigável e sua versão gratuita foi homologada para uso com o



Linphone para telefones móveis

O Linphone Mobile é um aplicativo livre e de código aberto (assi superior), iOS (6.0 ou superior), Windows Phone 8 e Blackberry.



Zoiper para telefones móveis

O Zoiper Mobile é um softphone desenvolvido pela empresa búl superior) e Windows Phone 8. Ele é funcional e simples de utiliza

back in time...



- stable - can be online 24/7



NIC br lending phoneshigh costs to NIC brlogistics

- slow groing of the network







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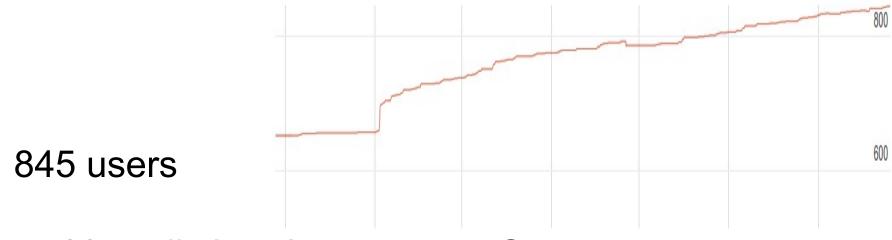
today...



Softphones SIP

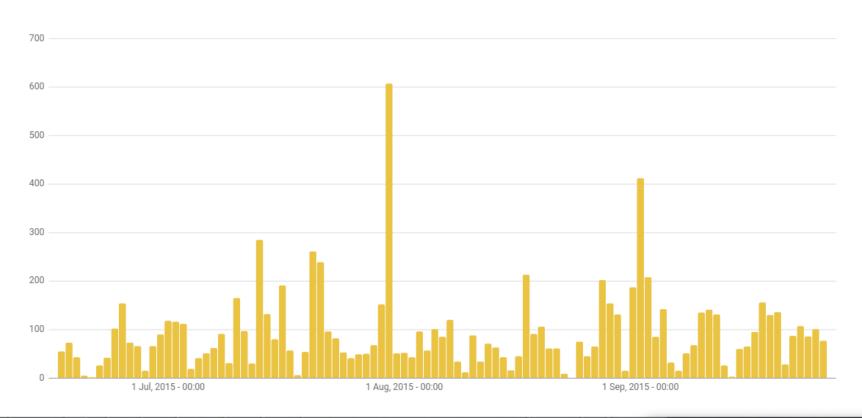
- 1 Create account in PAS(Autonomous System Portal)
- 2 Associate your AS
- 3 Create INOC-DBA extension
 - Steps 2 and 3 require approval from whois contacts (e-mail)





- 607 distinct Autonomous Systems
- 578 *100 extensions
 - 80 *800 extensions

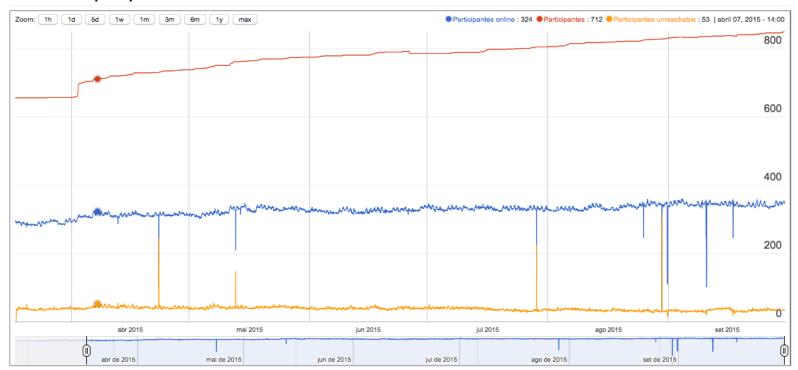
69 calls/day



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• Problems...

Quantidade de participantes online



Questions...

- What do you think? Should we try it in the LAC region?
- How we solve the problem with whois contacts?
- Should we do something else to improve communication between our NOCs and CSIRTs?
 Maybe an AS-Whats-App? AS-Telegram?

https://inoc-dba-web.pch.net/inoc-dba/ http://inoc.nic.br

Obrigado www.ceptro.br

moreiras@nic.br



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