







IRT-Object in the RIPE-Database

Overview

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What does the IRT-Object do?

- Document Incident Response Teams in the database
 - gives more information: PGP-Keys, ...
- more fine grained and scalable approach than 'abuse-c, security-c, spam-c,'
- Link resources (inetnum, inet6num)
- only maintain one object

What does it look like?

irt: IRT-JANET-CERT Team's PGP-key used for signing address: Atlas Centre address: Chilton address: DIDCOT, Oxon address: OX11 OOS UK +44 1235 822 340 phone: +44 1235 822 398 fax-no: Team's PGP-key used for encryption e-mail: cert@cert.ja.nek PGPKEY-836D7141 signature: encryption: PGPKEY-836D7141 Team's PGP-key used admin-c: AB2554-RIPE tech-c: RT644-RIPE to authenticate references PGPKEY-3EA2BD2B auth: JANET-CERT coordinates security in JANET. remarks: remarks: http://www.ja.net/cert/ JANET is the UK education and research network. remarks: irt-nfy: ripe-admin@cert.ja.net、 notify: ripe-admin@cert.ja.net eMail Address to notify mnt-by: JANET-CERT about references changed: cert@cert.ja.net 20020808 RIPE source:

What to do with it?

Attach the mnt-irt attribute to the resources:

- Requires authorization from both parties:
 - Maintainer of the resource
 - Signature of the IRT with the auth: PGP-Key

 Search for the most specific inet(6)num with a mnt-irt:

whois -c <IP-Addr>

Search without -c

[uk@worf AcoNet]\$ whois -r -Tinetnum 193.171.255.0

inetnum: 193.171.255.0 - 193.171.255.95

netname: ACONET-VIX-SERVICES

descr: ACOnet Services Network

country: AT

admin-c: GW13-RIPE admin-c: AP135-RIPE tech-c: CP8-RIPE

status: ASSIGNED PA

notify: domain-admin@univie.ac.at

mnt-by: AT-DOM-MNT

changed: andreas.papst@univie.ac.at 19970324

changed: Woeber@CC.UniVie.ac.at 19970328

source: RIPE

Search with -c

[uk@worf AcoNet]\$ whois -r -c -Tinetnum 193.171.255.0

inetnum: 193.170.0.0 - 193.171.255.255

netname: AT-ACONET-193-170-193-171

descr: ALLOCATED BLOCK

descr: Provider Local Registry

descr: ACOnet

country: AT

admin-c: WW144 tech-c: WW144 tech-c: WK42

tech-c: CP8-RIPE

status: ALLOCATED UNSPECIFIED

mnt-by: RIPE-NCC-HM-MNT
mnt-lower: ACONET-LIR-MNT
mnt-irt: IRT-ACOnet-CERT

changed: roderik@ripe.net 19950315 changed: auto-dbm@ripe.net 19950424 changed: hostmaster@ripe.net 19951229 changed: hostmaster@ripe.net 20010206 changed: hostmaster@ripe.net 20011018

source: RIPE

How to get one?

- directly by RIPE-NCC (from ripe-254)
 - The creation request comes from the admin-c contact of the irt object.
 - The request is authenticated by an existing mntner, referenced by the object. The need to create an irt object cannot be the reason for mntner creation.
 - The keys referenced by the irt are in the database, the key owner shows affinity to the irt.
 - The reason for creation is presented along with the time line for deployment (i.e. referencing the object from where and when).

How to get one?

- By a well known trusted body recognized by the RIPE-NCC
 - Currently one: Trusted Introducer http://www.ti.terena.nl
 - Object is maintained by the TI
 - Quality of data is assured by this body
 - Other groups possible: ISP associations, NRENs,

Example

[uk@worf AcoNet]\$ whois -r irt-aconet-cert

irt: IRT-ACOnet-CERT

address: Vienna University Computer Center

address: Universitaetsstrasse 7

address: A-1010 Vienna

address: AUSTRIA

phone: +43 1 4277 14045 fax-no: +43 1 4277 9140 e-mail: cert@aco.net signature: PGPKEY-B06F5077 encryption: PGPKEY-B06F5077

admin-c: TI123-RIPE tech-c: TI123-RIPE

auth: PGPKEY-B06F5077

remarks: Emergency telephone number +43 1 4277 14045 (GMT+1/GMT+2 with DST)

remarks: http://www.trusted-introducer.org/teams/aconet-cert.html

remarks: This is an accredited IRT (level 2)

irt-nfy: cert@aco.net

notify: tiirt@stelvio.nl

notify: cert@aco.net

mnt-by: TRUSTED-INTRODUCER-MNT

changed: gert-henk.bakker@stelvio.nl 20030813

source: RIPE

Current Numbers

Total Objects: 39

Reference count:

irt-cert-nl: 312

IRT-ITGATE: 19

IRT-UNINETT-CERT: 18

IRT-ACOnet-CERT: 18

IRT-JANET-CERT: 7

IRT-EPLAN: 6

IRT-UK: 2

Open Issues

- Which other resources should be taggable?
 - AS-Numbers?
- Similar Facilities in other RIRs?
- Deployment
- Tools to get the information easily
- authenticity of the data in the database (general problem)

Resources

- ripe-254 http://www.ripe.net/ripe/docs/irt-object.html
- Ripe Database Manual
- Trusted Introducer http://www.ti.terena.nl

Q&A

Questions



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