RPKI Validator de RIPE NCC

▸ Es una herramienta de uso libre, que tiene entre sus características

- ▸ Implementa la validación de repositorios RPKI
- ▸ Implementa el servidor RTR (router-to-router protocol)
    - ▸ Alimenta con información validada a los enrutadores
- ▸ Implementa whitelisting / blacklisting
- ▸ Implementa 'BGP Previewing' basado en la información tomada de RIS
    - ▸ http://www.ris.ripe.net
- ▸ Bajar de http://www.ripe.net/lir-services/resource-management/certification/tools-and-resources

- Java
  - Sun JVM o OpenJDK 1.6
- Sistema operativo
  - Linux
  - OSX
  - Windows

Instalación

- Bajar de
  http://www.ripe.net/lir-services/resource-management/
  certification/tools-and-resources

  - Versión actual 2.1.0

- **Descomprimir el archivo zip:**

  - Ejecutar zip –x rpki-validator-a.b.zip

    - Se crea un directorio rpki-validator-a.b.zip

  - Ingresar al directorio y ejecutar:

    - ./bin/rpki-validator –r <rtr port>

Utilización del validador

```
rpki@rpkilab:~/bin/rpki-validator          ✕   root@rpkilab:~                          ✕

rpki-validator          rpki-validator.bat
[rpki@rpkilab rpki-validator]$ ./bin/rpki-validator -r32000
16:56:23,781 INFO  Config file does not exist: File '/home/rpki/bin/rpki-validator-app-2.1.0
/data/configuration.json' does not exist
16:56:25,952 INFO  Loading trust anchors...
16:56:29,995 INFO  RTR server listening on 0.0.0.0/0.0.0.0:32000
16:56:35,922 INFO  Welcome to the RIPE NCC RPKI Validator, now available on port 8080. Hit C
TRL+C to terminate.
16:57:30,987 INFO  Loaded trust anchor from location rsync://repository.lacnic.net/rpki/lacn
ic/RTA_LACNIC_RPKI.cer
16:57:31,691 INFO  Prefetching 'rsync://repository.lacnic.net/rpki/hosted/'
16:57:51,093 INFO  Started validating LACNIC RPKI Root
16:58:17,077 INFO  Retrieved 10228 entries from http://www.ris.ripe.net/dumps/riswhoisdump.I
Pv6.gz, last modified at 2012-05-05T14:06:03.000-04:00
16:59:20,825 INFO  Finished validating LACNIC RPKI Root, fetched 215 valid Objects
16:59:25,857 INFO  Sending Notify with serial 1 to all clients
16:59:26,497 INFO  Started validating 0 BGP announcements with 179 RTR prefixes.
16:59:33,939 INFO  Completed validating 0 BGP announcements with 179 RTR prefixes.
16:59:48,618 INFO  Retrieved 480012 entries from http://www.ris.ripe.net/dumps/riswhoisdump.
IPv4.gz, last modified at 2012-05-05T14:03:44.000-04:00
16:59:58,895 INFO  Started validating 431526 BGP announcements with 179 RTR prefixes.
17:00:10,327 INFO  Completed validating 431526 BGP announcements with 179 RTR prefixes.
^C17:21:44,863 INFO  RTR server stopped
17:21:44,953 INFO  Terminating...
[rpki@rpkilab rpki-validator]$ ./bin/rpki-validator -r32000
```

Uso del validador

Uso del validador (ii)

▶ Visualización de ROAs validados

Uso del validador

▸ Exportación de prefijos en ROAs

¡Muchas gracias!

carlos_@_ lacnic.net

gerardo_@_ lacnic.net