Security and the RIPE Community

A broader view

Marco Hogewoning | January 2017 | Roundtable, Brussels

RIPE is a platform…

Security Focus

- Outreach and awareness

  - Warn participants about emerging threats

  - Measurement and research on sizing the problem

  - Raise awareness about mitigation and solutions

- Discuss and create new solutions

- Capacity building

  - Teach people how to best deploy available solutions

  - Ensure networks are built to current standards and BCPs

Participation in Security Events

- Attend a large number of security conferences

  - E.g. Team Cymru, MWAAG, TF-CSIRT

  - Find out what is going on

  - Tell people what we are doing

  - Connect RIPE with other communities

- Benefit from the overlap in membership

Looking at Solutions

- Engage with standards development

- RIPE community discussions

  - Initiatives such as MANRS (routing security)

  - Guidelines such as BCP 38 (source filtering)

  - CPE security has been flagged (no solutions yet)

- RIPE Labs: several publications on DNSSEC

  - Packet sizes and IPv6

  - Discussing implementation of elliptic curve cryptography

Training Courses

- Introduced new DNSSEC training

    - Based on demand from our members

- New routing (BGP) course

    - Large focus on security

    - RPKI, route filtering, source address validation

- Hands-on with practical exercise

- Available throughout our service region!

- Planning for "IPv6 Security Course"

Emerging Technology

- Engaged in IoT-related discussions

  - Community expressed concerns about device security

  - Threat to the infrastructure (DDoS)

- Transparency towards consumers was raised

  - Possible connection to IoT trust label

  - Not yet clear what the role of RIPE could be

Thank you

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