RIPE NCC

RIPE Network Coordination Centre

The NCC Inaddr Tool

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RIPE NCC

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Outline

- Functionality - previous version
  - Credit to David Kessens
- Motivation for added functionality
- Modifications
  - Credit to Maldwyn Morris

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Previous Version

- From an object submitted to:
  <auto-inaddr@ripe.net>
- Extract server names
- Use “host” to get
  - IP addr
  - SOA data
  - NS data
  - Zone data

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Test Each Server

- Server reachability
- Syntax NS records
- Syntax rest of zone
- SOA timings near recommended
- UDP checksums used

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Compare Zones on Servers

On all servers in RIPE db object

Do the following match?

- primaries
- serials
- NS records

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Compare DNS and RIPE Data

- DNS versus RIPE Database:
  - Is primary server listed in DB object?
  - Same number of name servers?
  - Same name server?
- Is ns.ripe.net a secondary?
  - For blocks (/16) required
  - For networks (/24) forbidden

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Motivation for Extenstions

- Improve turnaround time
- Prevent errors
- Eliminate tedius tasks
- Scalability

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Added Checks

- Object sent to robot in RIPE db?
- Address space allocated?
- For /24's,address space assigned?
- Was the assignment
  - within assignment window?
  - approved by an NCC hostmaster?

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New Functionality

- Robot
  - notifies sender of status, and if good
  - writes zone and named file updates
  - notifies human of new updates
- After human approval
  - updates zone files
  - notifies sender of success

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Thanks Mal!