WEIRDS interop report

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WEIRDS
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Simon Perreault <simon.perreault@viagenie.ca>
Marc Blanchet <marc.blanchet@viagenie.ca>

Attendance

- 8 servers
  - 5 number servers
  - 2 name servers
  - 1 redirect server
- 1 client
- 1 test suite (acting as a client) targeting servers

Implementation survey (1/2)

- 1) Features _not_ implemented by _most_ implementations:
  - draft-ietf-weirds-json-response:
    - 5.4 lang
  - draft-ietf-weirds-using-http
    - 5.2 302 Response with Location:
    - 5.2 303 Response with Location:
    - 5.2 307 Response with Location:
    - 5.5 429 Response
    - 5.6 Access-Control-Allow-Origin Header
    - 9.3 Return Content-language Header

Implementation survey (2/2)

- 2) Features _not_ implemented by _some_ implementations:
(some features here are not listed because they are specific for one kind of registry (i.e. addresses vs domains)
  - draft-ietf-weirds-rdap-query
    - 3.4 /nameserver/<idn a-label>
    - 3.4 /nameserver/<idn u-label>
    - 3.6 /help
  - draft-ietf-weirds-json-response:
    - 5.3 remarks
    - 5.6 status
    - 5.7 port43
    - 5.8 public id
    - 6.2.1 secureDNS dsData
    - 6.2.2 secureDNS keyData

Results

- Discovered at least 39 issues in implementations

- A few questions about the specs...

Question #1: Double slashes

- Should double slashes be allowed?

  A) http://example.com//ip/1.2.3.4/32

    - Looks like it should be, based on common practice.

  B) http://example.com/ip/1.2.3.4//32

    - Looks like it should not be, based on CIDR notation syntax.

- **Proposal**: Explicitly disallow in the query draft.

Question #2: Authentication

- How can we return different content depending on whether auth is used or not?

- Example: http://example.com/domain/example.net

  - Without auth, basic info

  - With auth, basic info + personal contact info

- HTTP auth is triggered by unauth access. But auth is not required.

- **Proposal**: add an "auth=<token>" query parameter

  - Clients would be configured with registry-specific clearance level

  - Clearance level would be identified by <token>

  - Example: auth=registrar

Summary and next steps

- Feedback from implementors that it would be good to redo at next IETF

- Given: implementations more mature, spec changes, test suite with more comprehensive coverage

- Start testing higher up the stack

  - IDN support

  - jCard support

  - etc.