RPKI Tools Status

rpki.net

Overviev

OpenSSL

rovnio

RPKI-Route

Back-end

GUI

RPKI Tools Status

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Overview

RPKI Tools Status

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Overview

OpenSSI

rcynic

RPKI-Route

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Back-end

GU

Portable open source RPKI tools implementation

- Running code
- BSD license
- Fairly complete implementation of protocol suite
- Portable code not tied to any specific back-end system
- Implemented in C and Python

OpenSSL RFC 3779 Support

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RPKI-Route

rpkid & pubd

Back-end Tools

Features

- Constructs and verifies RFC 3779 X.509 extensions
- Enabled by default on some platforms

- In shipping OpenSSL for several years now
- Code very stable, occasional minor bugfixes

RPKI Validator: "rcynic"

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rcynic

RPKI-Route

rpkid & pubd

Back-end Tools

Features

- Fetches and verifies RPKI objects
- New! Ghostbusters record support

- Code very stable
- Much recent work on portability (chroot jails, etc)

RPKI-Router Protocol

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RPKI-Router

rpkid & pubo

Back-end Tools

GU

Features

- Feeds RPKI data to routers for origin validation
- Server and test client

- Implements draft-ietf-sidr-rpki-rtr-11.txt
- Code stable
- Most recent work was adding nonces

RPKI Certificate Production

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RPKI-Router rpkid & pubd

Back-end Tools

Features

- Generate RPKI certificates, ROAs, and supporting objects
- Speaks provisioning ("up-down") protocol to parents and children (rpkid)
- Speaks publication protocol to repository (pubd)

- Complete implementation, active development
- New! Ghostbusters records
- Ongoing portability work ("make install", etc)
- Ongoing usability work (better logging, etc)

Back-end Tools

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Overview OpenSSI

rcynic

RPKI-Route

Back-end

Tools

Features

- Simple / example back-end tools
 - Registry database
 - Setup, command, and control
 - Command line interface to daemons
- Designed to be plug replacable as needed by installations with complex existing back ends

- Code fairly stable, active development
- New! Ghostbusters records
- Initial setup protocol may need to become WG work item

GUI

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Overview OpenSSI

RPKI-Route

Back-end Tools

GUI

Features

- Web interface to rpkid et al
- Control panel for all production tools in toolkit (eventually)
- Monitoring and status feedback to operator

- Code fairly stable, active development
- Even newer! Ghostbusters records
- Gradually replacing and improving on the command line tools

Questions?

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Back-end

GUI