



## Open Source For an Open Internet

ISC Subscriber News

# 2024 Q2

Important updates for ISC's BIND 9, Kea DHCP, and ISC DHCP support subscribers.

## Support Ticketing System Migration

You should have received email from us by now, informing you of the transition to a new (old) ticketing system on July 29, 2024. We are moving back to the [Request Tracker \(RT\) system from Best Practical](#), which we used before adopting Salesforce last summer. The RT user interface is better suited to extended back-and-forth text-based updates, which are the majority of our support tickets, and we are making this switch after receiving input from a number of you who preferred the RT system. We are working to migrate as much of your ticket data from Salesforce to RT as possible, to minimize any disruption during the transition.

Please continue to use the Salesforce support portal (<https://techsupport.isc.org>) until the cutover on July 29, and watch your email for additional updates.

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**US Government subscribers:** if you require a [Secure Software Development Attestation](#) from ISC, please ask your sales representative or email us at [info@isc.org](mailto:info@isc.org). Both the BIND and Kea projects follow generally accepted best practices for security, including CVE reporting, continuous integration testing, coding standards, mandatory peer code reviews and code signing.

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## DNS News

# A new BIND 9.20 stable branch

We currently plan to release BIND 9.20 in mid-July. After we have had several months of experience with it in production, around the end of 2024, we will then produce a BIND 9.20-S edition.

BIND 9.20 continues our commitment to refactoring and modernizing BIND. Many database functions have been refactored to use the new qp-trie infrastructure, in place of the legacy red-black tree. This is also our first stable branch with complete support for encrypted DNS. The US Government's [Encrypted DNS Implementation Guidance](#) for federal agencies includes explicit recommendations for BIND deployment in section A3.1, using DNS over HTTPs or DNS over TLS. That document was written before the full support for encrypted DNS was available in a stable branch: with BIND 9.20, it is now fully supported. In the coming development cycle we plan to add support for the new [QUIC transport](#), which is one of several modern protocols that are collapsing multiple OSI layers for greater efficiency.

Proxyv2 protocol. As explained in [this blog post](#), this feature will pass client connection information to a backend system, which will allow it to perform some of the functions of the EDNS Client-Subnet Identifier feature, but without the cache impact.

BIND 9.16 maintenance has ended, after four years of active support (9.16.0 was released in March, 2020). Please update to BIND 9.18, which is our current Extended Support Version. We are confident that the more recent [9.18 branch of BIND is much improved over the older 9.11 and 9.16 branches](#). We don't yet have final numbers, of course, but we expect BIND 9.20 to be even more efficient than 9.18.

ISC is contributing to specifications for a proposed new DNS record, the [Deleg record](#), which would provide information about the server's capabilities. This draft has progressed to the point that the IETF has just chartered a new [Deleg working group](#). For a quick update on IETF work on the DNS, read the slides for the [recent talk Dave Lawrence \(tale\) gave at NANOG91](#), where he characterizes Deleg as the biggest change to the DNS since DNSSEC.

#### Further Reading

- [Blog announcing the new Proxyv2](#) feature
- More [Proxyv2 configuration examples](#)
- [dig versions and default EDNS UDP buffer size](#)
- [Changes to serve-stale option stale-answer-client-timeout](#) in BIND 9.19 and newer (including 9.20)
- [Stub zones don't work when primaries are configured for "minimal-responses yes;"](#)



## Kea/DHCP News

[Kea 2.6.0](#), our latest stable version of Kea, introduced a number of features requested by network operators: a new [ping check hook](#) for subscribers, the [hub-and-spoke HA](#) feature, an option to "stash agent options" to preserve them for renewals, and a new [performance monitoring hook](#). We have a new support Knowledgebase article on [Changes to Be Aware of When Migrating to Kea 2.6.0](#).

We have rearranged the Kea repositories on Cloudsmith so that all future development branches are now in the kea-dev (open source) or kea-dev-prv (subscriber-only) repositories. Read more in [this blog post](#).

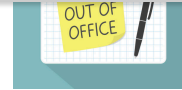
For those of you who have not yet tried our [Stork utility for Kea](#), we recommend the [Stork Quickstart Guide](#). Stork leverages a number of premium and subscriber-level Kea hooks to provide a graphical interface for updating your host reservations and subnet configuration. The graphical interface can help prevent errors and can broaden the team able to make configuration changes. Stork is currently officially an experimental development project, but we are planning to release a stable version and begin offering professional support for Stork towards the end of this year. We recommend installing Stork from the packages in our [Cloudsmith repository](#).

- We have a KB on [Importing External Certificates to Stork](#)
  - [Changes to be aware of when migrating to Kea 2.6.0](#)
  - We have updated the KB article on [Logging for ISC DHCP users](#).
  - We also have a new KB article on [redefining standard options](#), and we have updated the [list of options supported in ISC DHCP and Kea](#).
  - If you couldn't attend our December webinar on configuring Kea using Stork, please check out the [recording](#).
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## Support

ISC's support department will be closed for regular business on:

- Thursday, July 4
- Monday, September 2
- Monday, October 14
- Thursday and Friday, November 28 & 29



Normal-priority tickets opened on those days will be responded to on the first business day following our return.

Critical-priority tickets will, as always, be responded to based on your organization's critical-ticket SLA. Please check our support portal and/or contact your account manager if you have questions about your level of support from ISC.

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## Hope to see you soon!

ISC staff would love to meet you at any of these upcoming events:

- [IETF 120](#) - Vancouver, Canada: July 20-26, 2024
- [NANOG 92](#) - Toronto, Canada: October 21-23, 2024
- [DNS-OARC 43](#) - Prague, Czechia: October 26-27, 2024
- [RIPE 89](#) - Prague, Czechia: October 28 - November 1, 2024
- [IETF 121](#) - Dublin, Ireland: November 2 - 8, 2024

ISC presented at both the recent RIPE and NANOG meetings. Presentation slides and recording links (when available) are posted at <https://www.isc.org/presentations/>.

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