

# **DNS Zone Viewer**


## **/ Stork + PowerDNS /**


DNS Hackathon, Stockholm April 15-16, 2025

# Background

- Stork ([stork.isc.org](https://stork.isc.org)) is an open-source project for monitoring and controlling DHCP and DNS servers.
- Basic integration with BIND9 includes: gathering information about named instances and exporting some statistics to Prometheus and Grafana.
- Zone viewer and DNS dashboard started in early 2025 for BIND9.
- A groundwork for more sophisticated features.

# Zone Viewer

 DNS Services Monitoring Configuration Help



Search

[→ Logout (admin)]

⚠ **Unregistered machines** Found 7 machines requesting registration and awaiting approval. Visit the list of [unauthorized machines](#) to review the requests.

🏠 > DNS > Zones

?

Zones

Fetch Status

Fetch Zones

Refresh List

Filters Filter applied ?

Clear

App ID1SerialZone TypeINApp TypeBIND9

App name, Zone name or v

Zone Name	# of Associated DNS Servers
> bind9.example.com	1
> bind9.example.org	1

11 of 11 pages

<< < 7 8 9 10 11 > >>

10

Total: 102 zones

# Motivation (Stork + PDNS)

- Operators can differentiate DNS server implementations in their networks for scalability, security, and resiliency.
- Monitoring solutions should integrate with diverse DNS servers to be useful in such environments.

# Hackathon Goals

- Try to integrate PowerDNS with Stork.
- Identify any roadblocks and difficulties for such integration.
- Specifically, find deficiencies in the DNS servers' APIs and differences between different server implementations.
- Try using DNS protocols, such as AXFR to collect zone data from different server implementations.
- Document issues and propose improvements to the APIs.

# Links

- <https://github.com/DNS-Hackathon/Stork-DNS-Zone-Viewer>
- <https://gitlab.isc.org/isc-projects/stork>
- <https://stork.isc.org/>