

DNS Resolver

“ To really and fully utilize your SSL environment you need a local DNS resolver that knows your home network...

There are various ways to successfully implement this technology (DNS), even with "in-house knowledge".

1. hosts File

You can define your devices in a hosts file and, for example, distribute this manually to all hosts files of the affected devices. However, this can quickly turn into time-consuming work and is prone to errors! Furthermore, there are devices (e.g. IOT, network devices, TVs) that do not offer manual hosts management at all.

2. Resolver

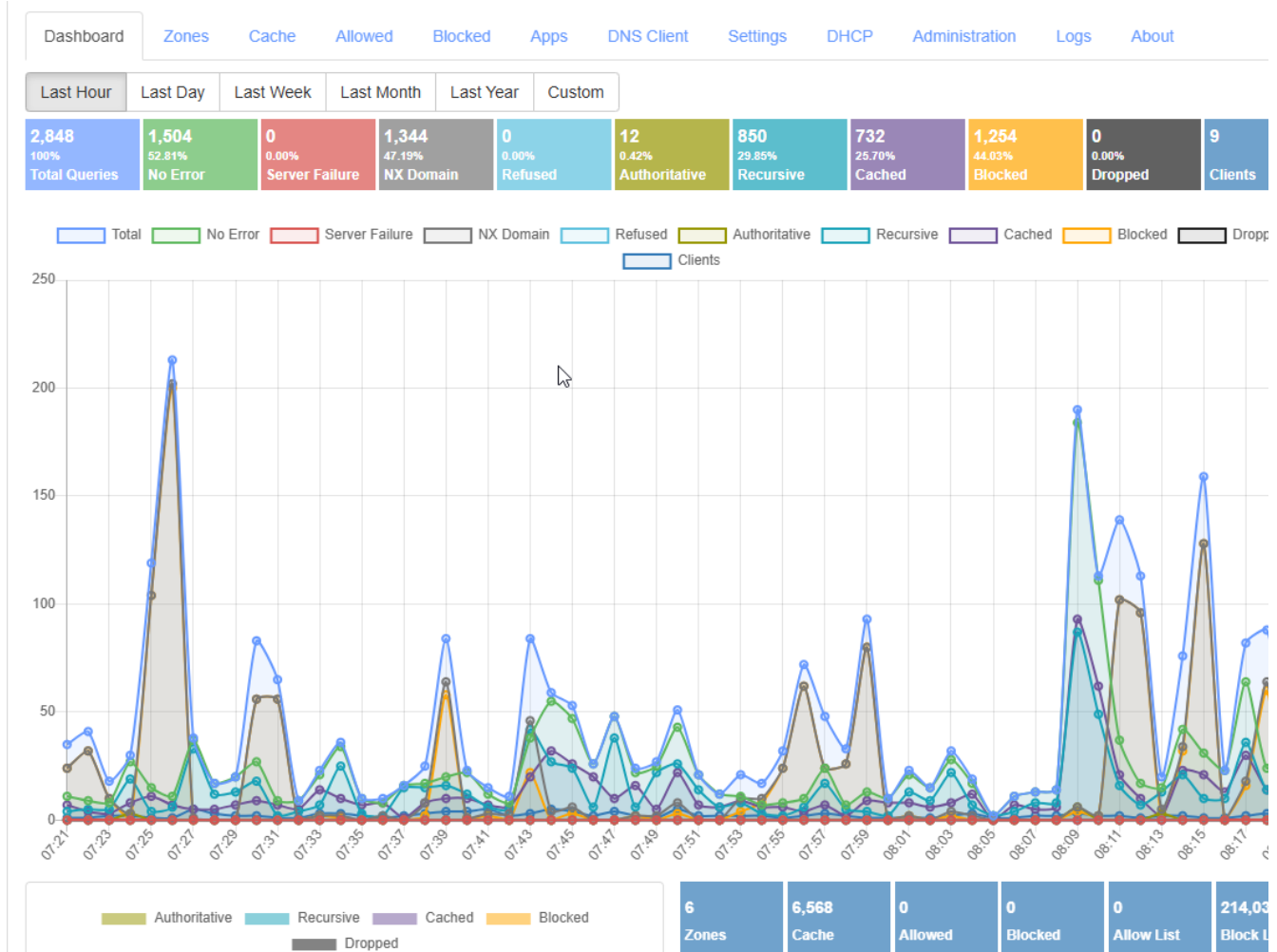
The standard tools such as bind9, dnsmasq could be considered here. However, availability is questionable depending on the operating system. In addition, "failure" is usually pre-programmed, as the technology and tools should be, let's say, semi-professional.

3. Hybrid Applications

The best-known tools here are PI-Hole and AdGuard. Please keep in mind that these tools were created for a different reason: Ad Blocker!!!!!! Due to the concept (foundation, structure), it is becoming increasingly difficult for the tools to follow modern DNS concepts, i.e. to implement the technologies (e.g. DNSSEC) with all possible methods (e.g. DNS-over-HTTPS or DNS-over-QUIC).

A currently less well-known but all the more remarkable application is [Technitium](#). It combines all the "home computer scientist" requirements of a modern, customizable, sustainable DNS resolver solution. It can provide ad blocking with flexibility and customizability, a really easy to set up and maintain resolver implementation and, if desired, an extensive analysis and reporting environment. Hm, the only disadvantage could be the application language: English. However, this is very technical and English is always better than any botched German translations. The [linked](#) video is also very helpful!!!!

Dashboard



DNS Resolver

DNS Server - netfactory

Dashboard

Zones

Cache

Allowed

Blocked

Apps

DNS Client

Settings

DHCP

Administration

Logs

About

← Back

hopto.home

Primary

Enabled

Add Record

Disable Zone

Delete Zone

Options

Permissions

DNS Settings

Name

abc or a* or *b* or a?c

Type

Page Number

1

Records Per Page

10

1-6 (6) of 6 records (page 1 of 1)

#	Name	Type	TTL	Data
1	@	NS	3600 (1h)	<div><div>Name Server: netfactory</div><div>Last Used: 0001-01-01 00:00:00 (never)</div><div>Last Modified: 2025-06-15 08:55:21 (3 days ago)</div></div>
2	@	SOA	900 (15m)	<div><div>Primary Name Server: netfactory</div><div>Responsible Person: hostadmin@hopto.home</div><div>Serial: 5</div><div>Refresh: 900 (15m)</div><div>Retry: 300 (5m)</div><div>Expire: 604800 (1w)</div><div>Minimum: 900 (15m)</div><div>Use Serial Date Scheme: false</div><div>Last Used: 2025-06-18 08:12:44 (10 minutes ago)</div><div>Last Modified: 2025-06-15 08:55:21 (3 days ago)</div></div>
3	netfactory	A	3600 (1h)	<div><div>192.168.158.10</div><div>Last Used: 2025-06-18 08:12:44 (10 minutes ago)</div></div>

Ad Blocking

Blocking Answer TTL

30

seconds (default 30)

The TTL value in seconds that must be used for the records in a blocking response. This is the TTL value that the client will use to cache the blocking response.

Allow / Block List URLs

https://raw.githubusercontent.com/StevenBlack/hosts/master/alternates/fakenews-s-gambling-social/hosts

Quick Add

None

Default

Steven Black [adware + malware]

Steven Black [adware + malware + fakenews]

Steven Black [adware + malware + gambling]

Steven Black [adware + malware + porn]

Steven Black [adware + malware + social]

Steven Black [adware + malware + fakenews + gambling]

Steven Black [adware + malware + fakenews + porn]

Steven Black [adware + malware + fakenews + social]

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OIDSD Big [Adblock Plus]

Block List Update Interval

Block List Next Update On

Notel DNS Server will use the data returned to it from the file containing list of domains to block, wildcard characters are not allowed.
[Help: Blocking Internet Ads Using DNS Sinkhole](#)

Save Settings

Flush Cache

to add known block list

path. For example, on Linux should look like

not be used with allow lists

and update of the block lists.

mat is standard **hosts** file format, plain

Backup Settings

Restore Settings

“my recommendation: Technitium

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