

happyDomain is a free and open-source interface that makes domain names accessible and reduces the usual friction points.

Our modern interface centralizes your domains and includes all the features you'd expect these days for painless domain management.

We built happyDomain because we want to save operational teams time, by giving them superpowers: to be in full control over their production's or internal domains, without having to read and learn all the regularly new standards, by staying focused on organizational needs.

Our mission is to help people become more independent on the Internet, in the face of the tech giants, by making domain names everyone's business.

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1 The Origin

Back in 2018, Pierre-Olivier gave a lecture at a computer engineering school about system administration. For a practical exercise, he implements a reduced hosting provider console, including domain management.

Students were astonished by the complexity, remembering Pierre-Olivier that no one at his job wanted to make domain updates. At the same time [Stéphane Bortzmeyer commented on that complexity](#)¹ for everyone else. Clearly there was something to be done!

2 Feature List

Here's an overview of happyDomain's main features:

- consolidate domain names from over 45 domain name providers or authoritative servers,
- guide administrators with clear forms,
- clearly visualize the changes that will be propagated,
- keep a history of changes made to the zone,
- return to a previous zone status with a single click,
- group records by services/needs: email, delegation, server, load balancing, etc.
- abstract all technical complexity into a logical view,
- import/export the zone as a standard file,
- keep track of actions for later auditing,
- automate tasks via a REST API.

3 Technical Details

happyDomain has an ultra-fast user interface, backed with a small footprint binary or container.

We use state of the art tech: - Our interface is based on [SvelteKit](#), and relies on a [Service Worker](#) to have a reduced network footprint: only API requests are exchanged once first loaded. - The server is a Golang binary: even large zones are processed in a flash on low power devices. - To be deployed in modern stack, we provide a [Alpine-based Docker image](#), suitable for Docker, Podman, Kubernetes, ... and available for most common architectures: amd64, arm and arm64.

For the DNS part, we rely on battle tested dependencies, such as: - The great [miekg's DNS library](#), used by [CoreDNS](#), at the heart of Kubernetes. - Providers' integrations are given by the fantastic [dnscontrol project](#) of StackOverflow.

happyDomain is built to last: designed from the ground-up for all kind of load, with security and efficiency in mind.

4 Usage and Applications

Today, we welcome all system administrators to join our platform: - employees managing internal or publicly available domains, - freelancers handling large portfolio of customers, - communication agencies with countless domain names, - geeks looking for new horizons, - privacy aware individuals wanting to gain their independence.

¹<https://www.bortzmeyer.org/hebergement-dns-chaton.html>

Domain names are everybody's business. We built a simple interface that aims to respond to concrete needs, hiding all the complexity, changing standards from users.

Employees and freelancers will enjoy our effortless platform. Think of the time spent regularly on DNS issues, dealing with sometimes insane providers interface or their lack for X or Y features. Moreover, reading and understanding documentations or searching tutorial for your exact setup can be tedious. Each organizational or client request can be treated in seconds without fear or doubt, even without looking for some nasty tutorial or insanely-technical documentation.

5 How to Test happyDomain

We are a free and open source project: you can use the official interface available at www.happydomain.org, or install it at home.

A demonstration is available at try.happydomain.org: you can evaluate how happyDomain work, no account or domain required.

For an easy deployment, we provide a [Docker image](#)²:

```
docker run -e HAPPYDOMAIN_NO_AUTH=1 -p 8081:8081 happydomain/happydomain
```

The source code is available on Framagit³: you can consult it, copy it, give your opinion, report bugs or make modifications, as you wish.

6 Team and Community

happyDomain is built by a group of people based in Paris, in France. Among others, Pierre-Olivier⁴ leads the developments and Frédéric federates the team.

We're building a community of users who want to regain control of their domain names. You can join us on our Matrix channel⁵, or find out more by following our blog⁶ and our Mastodon account⁷.

7 Contact Information

Don't hesitate to contact us at press@happydomain.org for any details or press inquiries.

8 Frequently Asked Questions

Do you sell domain names? No, happyDomain does not sell domains yet. To start using our interface, you need to buy a domain from one of our [supported providers](#).

²<https://hub.docker.com/r/happydomain/happydomain/>

³<https://framagit.org/happyDomain/>

⁴<https://nemunai.re/>

⁵<https://matrix.to/#/#happyDNS:matrix.org>

⁶<https://blog.happydomain.org/>

⁷<https://floss.social/@happyDomain>

I don't want to rely on my domain name hosting provider anymore. Can I host my domain name on your infrastructure? We'll provide such a feature in the near future, as it's on our manifest. We choose to focus first on spreading the word that domain names are accessible to everyone through this sweet interface, before targeting privacy, censorship, ...

I have my own infrastructure. Can I use happyDomain as a secondary authoritative server? We'll provide such feature in a near future, as soon as our name server infrastructure is ready.

9 Media Assets

Main color: #1cb487

9.1 Logos

happyDomain

happyDomain logo black

happyDomain

happyDomain logo black



happyDomain icon



happyDomain rounded icon

9.2 Screenshots

The screenshot displays the happyDomain interface, organized into several sections:

- ACME:** A list of domains with their status (OK):
 - acme.com. (OVH.com icon)
 - nyc.loc.acme.com. (orange dots icon)
 - roma.loc.acme.com. (orange dots icon)
- happyDomain:** A list of domains with their status (OK):
 - happydns.eu. (OVH.com icon)
 - happydns.fr. (teal swirl icon)
 - happydomain.org. (blue 'd' icon)
- Parked:** A list of domains with their status (OK):
 - otherdomain.com. (orange 'N' icon)
 - somedomain.com. (orange 'N' icon)
- Filters (Right Panel):**
 - Your domain providers:** A list of providers including Gandi HD4321-GANDI, Local BIND, PowerDNS ACME Rome, DNSimple, OVH hd42369-ovh, PowerDNS ACME New-York, and Namecheap Account.
 - Your groups:** A list of groups including ACME, Parked, and happyDomain.
- Bottom:** A search bar with a plus sign and the text "my.new.domain."

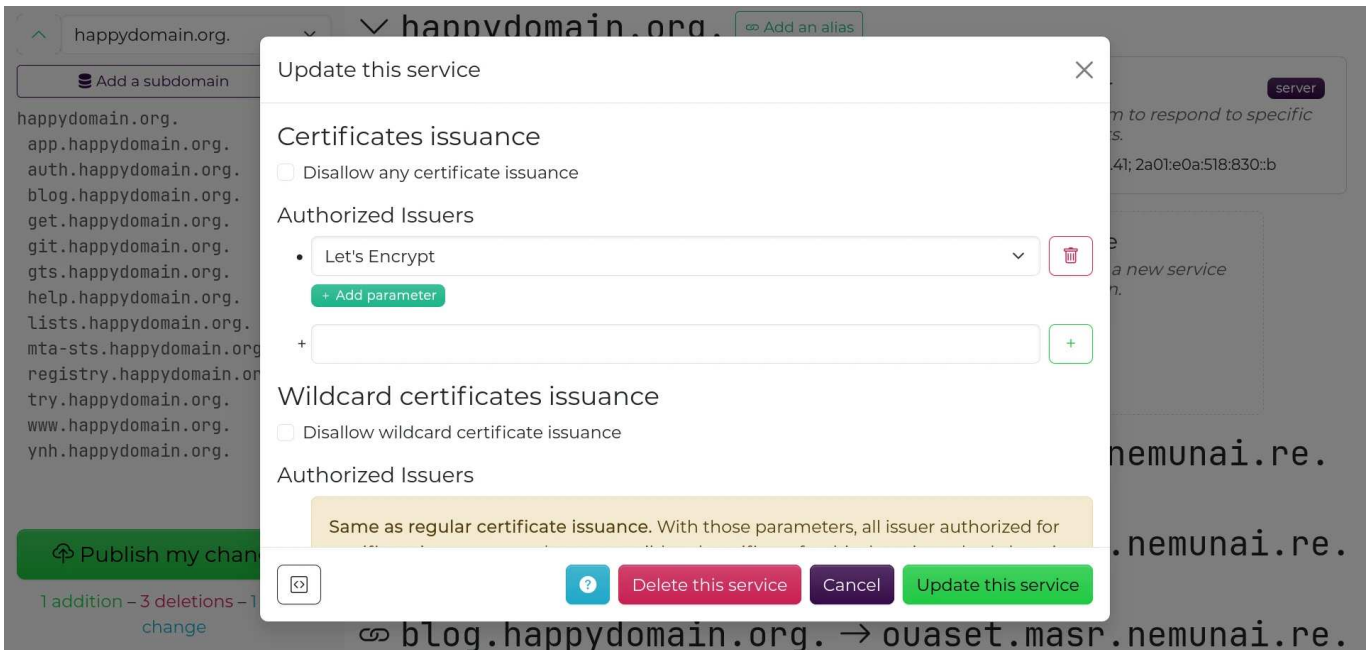
happyDomain's home page: domains are listed by group, with their status. Filters are on the right.

The screenshot displays the management interface for ACME and happyDomain. On the left, under 'ACME', there are two domain entries: 'roma.loc.acme.com' and 'happydomain.test', both with 'OK' status. Below this, the 'happyDomain' section shows a list of domains managed by 'PowerDNS ACME Rome'. The list includes: acme.com, acme.eu, acme.fr, acme.io, acme.net, acme.us, acme.co.uk, eLysee.fr, and happydomain.test. Each domain has an 'Add it now!' button, except for 'happydomain.test' which is marked as 'Already managed'. A sidebar on the right, titled 'Your domain providers', lists various providers: Gandi HD4321-GANDI, Local BIND, PowerDNS ACME Rome (highlighted), DNSimple, OVH hd42369-ovh, PowerDNS ACME New-York, and Namecheap Account. Below this is a 'Your groups' section with a grid icon and a list of groups: ACME, Parked, happyDomain, and Miscellaneous.

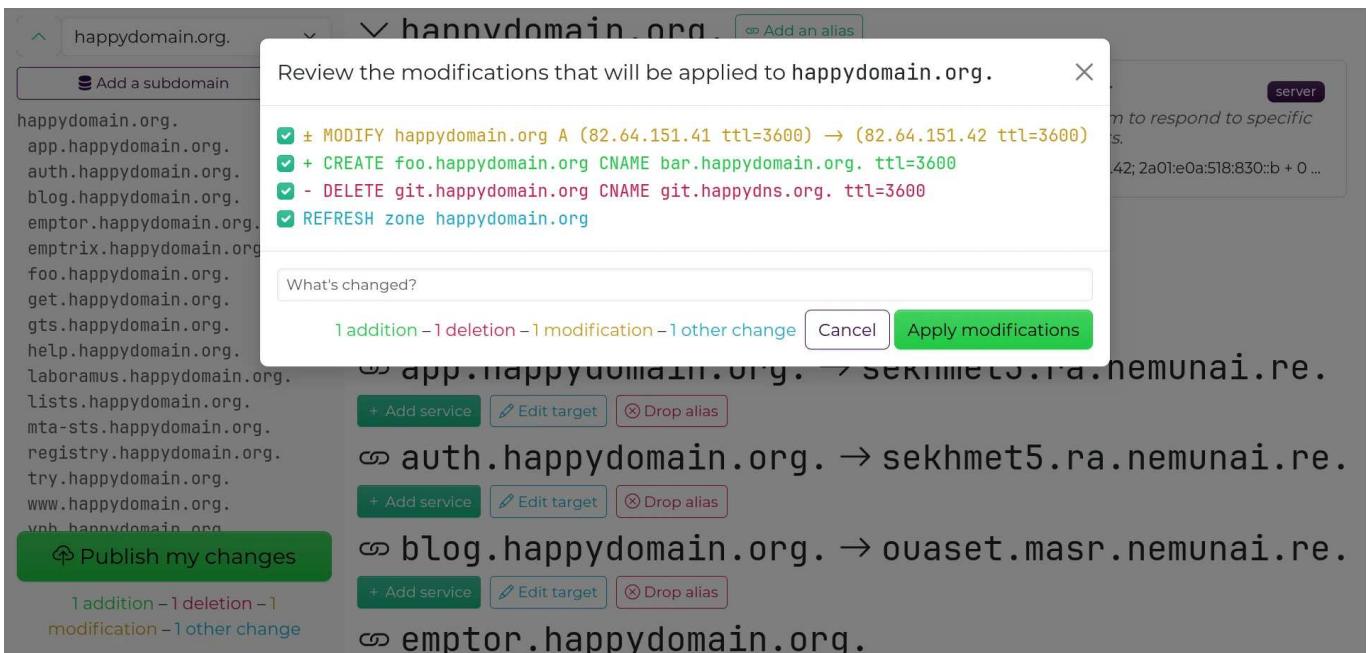
Import a domain from a provider: when supported, just hit the button to synchronize it in happyDomain.

The screenshot shows the main domain page for 'happydomain.org'. On the left, there is a list of subdomains: happydomain.org, app.happydomain.org, auth.happydomain.org, blog.happydomain.org, get.happydomain.org, git.happydomain.org, gts.happydomain.org, help.happydomain.org, lists.happydomain.org, mta-sts.happydomain.org, registry.happydomain.org, try.happydomain.org, www.happydomain.org, and ynh.happydomain.org. Below the list is a 'Publish my changes' button and a status indicator '3 deletions - 1 other change'. The main content area shows the 'happydomain.org' domain with an 'Add an alias' button. It features three service cards: 'Origin' (internal) with '2 NS', 'E-Mail' (email) with 'nemunai.re. *4 + SPF + DKIM', and 'Server' (server) with IP and port information. A '+ New service' button is also present. At the bottom, there is a list of aliases with their targets and action buttons: 'app.happydomain.org' → 'sekhmet5.ra.nemunai.re.', 'auth.happydomain.org' → 'sekhmet5.ra.nemunai.re.', 'blog.happydomain.org' → 'ouaset.masr.nemunai.re.', and 'get.happydomain.org' → 'get.happydns.org'.

Main domain page: an abstract view of the zone, the raw records are grouped under services.



The form to edit CAA records: each service is deeply explained, you are guided at each step.



Modifications are not directly propagated: you choose when to apply them in one go. A diff is presented before applying changes, a good way to avoid visible mistakes.

happydomain.test. Historique des changements la zone happydomain.test.

happydomain.test.
 augustus.happydomain.test.
 blog.happydomain.test.
 get.happydomain.test.
 git.happydomain.test.
 help.happydomain.test.
 laboramus.happydomain.test.
 mta-sts.happydomain.test.
 www.happydomain.test.

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30 novembre 2023 à 16:05:30

Dernière modification le 30 novembre 2023 16:05:30

```

- DELETE _acme-challenge.happydomain.test TXT "test" ttl=3600
+ CREATE _matrix._tcp.happydomain.test SRV 10 10 8448 matrix.happydomain.test. ttl=3600
  
```

happyDomain keeps an history: view previous modifications, rollback in one click.

happydomain.org. Journal du domaine happydomain.org.

Utilisateur	Niveau	Action/description	Date
hello@happ...	INFO	Zone published (O05IgE4sEndiSwSUKUeb5A), 1 corrections applied with success	30/11/2023 16:27:41
hello@happ...	INFO	Zone published (eMKouy8RXkDz mzZeubhyZA), 4 corrections applied with success	30/11/2023 16:24:39
hello@happ...	INFO	Zone published (HRa4wDvTnpKIPTVrCS02Wg), 13 corrections applied with success	30/11/2023 16:08:13
hello@happ...	INFO	Zone published (37_j7OMW-JiCXydb5gNDXw), 2 corrections applied with success	30/11/2023 16:05:30
hello@happ...	INFO	Zone imported from Bind-style file: 37_j7OMW-JiCXydb5gNDXw	30/11/2023 16:02:13
hello@happ...	INFO	Zone imported from provider API: 5K_p0iDA0bamKD4s3gvN6g	30/11/2023 13:53:57
hello@happ...	INFO	Domain name happydomain.org. added.	30/11/2023 13:53:43

happyDomain logs actions made on the domain: allowing future audits.

9.3 Feature Graphics



Figure 1: OpenGraph image

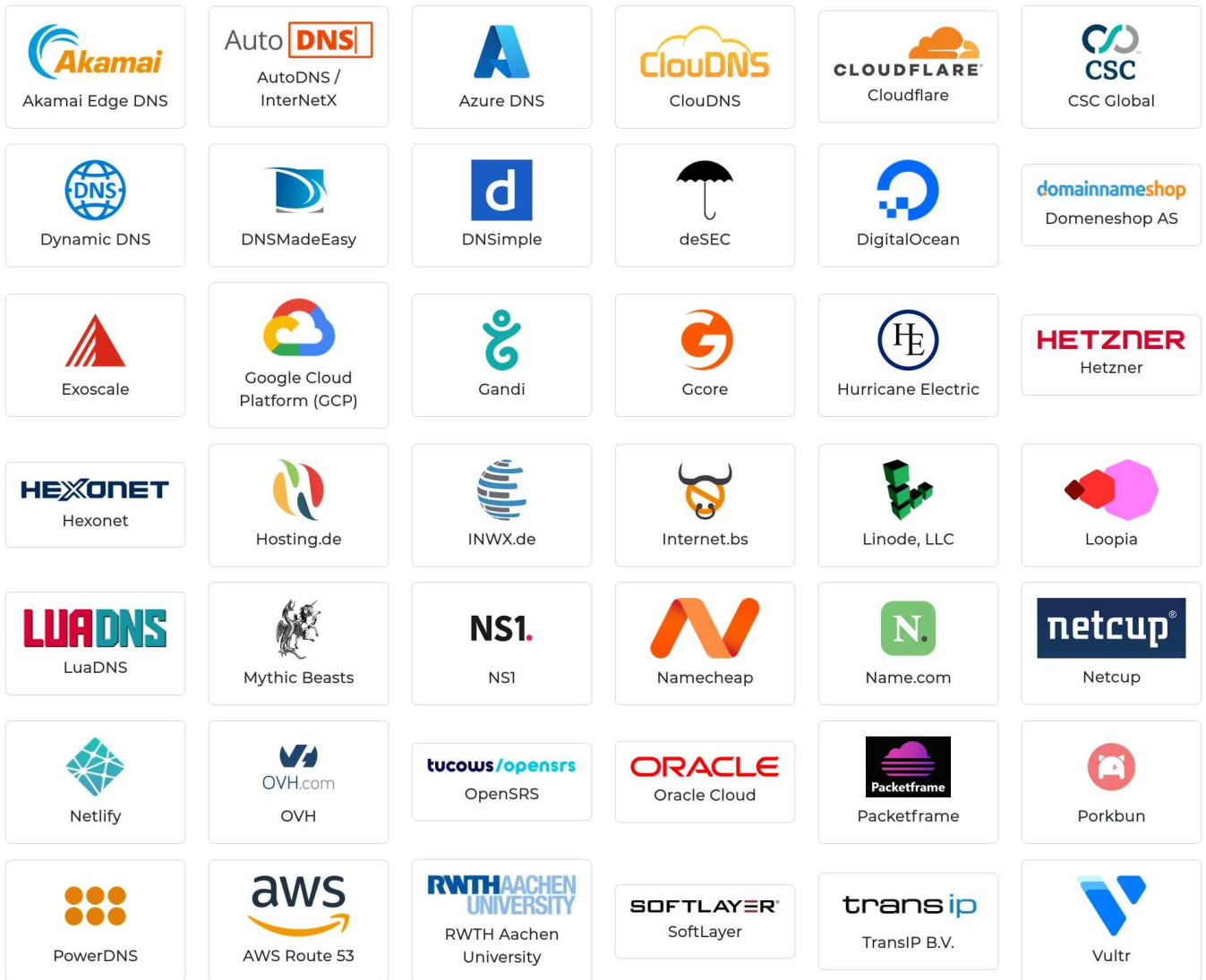


Figure 2: happyDomain supports more than 45 providers to date, more to come thanks to dnscontrol