nsupdate.info

Fed up with

dyndns services?

There's an alternative now.

nsupdate.info – dyndns2 server

- one user account, *many* hosts
- helps you configure your router / update client
- browser-based (javascript) update client
- update hosts in your *own* domain
- update other services ("dyndns2 relay")
- IPv4 - usually 1 IP per client LAN (NAT)
- IPv6 - many IPs per client LAN (no NAT)

nsupdate.info & IPv6

- at the service:
  maintain a map interface ID → host name

- with 1 update client in your LAN:
  send update with the currently correct prefix

- service updates DNS with all the names / IPs:

  doe.nsupdate.info   A 1.2.3.4
  doe.nsupdate.info   AAAA <prefix>:<ID1>
  joe.doe.nsupdate.info AAAA <prefix>:<ID2>
  zoe.doe.nsupdate.info AAAA <prefix>:<ID3>

nsupdate.info & security

- TLS support & warn users if they don't use it
- support two-factor auth via "social logins"
- web UI password (if any): stored as pbkdf2
- update password is randomly generated & stored as salted-sha1 hash (scalability)
- Django's CSRF, Clickjacking, XSS protection
- secure session cookie
- no default accounts / passwords / secrets
- security documentation

hosted or on your own server

- hosted: https://nsupdate.info/
- it's free (and intentionally non-commercial)
- we won't annoy you:
  - no spam, no ads, no tracking
  - easy and helpful user interface
  - all features enabled
  - no need to login once a month
  - no killing of hosts after short non-usage
- on your own server: django, bind

nsupdate.info – we need help

- Code on github: nsupdate-info/nsupdate.info

- Translations on transifex

- Docs on readthedocs (made with Sphinx)

update clients - miserable failure

- dyndns2 de-facto standard, there are a lot of clients, but:
- no IPv6, no TLS, no SNI, no cert checking
- bad dyndns2 standard compliance:
    - frequently sending no-change updates
    - not sending infrequent no-change updates (1/month)
    - not reporting errors
    - never stopping to send erroneous updates
- bad quick hacks (e.g. with cron & wget/curl)
- badly maintained projects

update clients - the better ones

- python-dyndnsc
  - IP v4 and v6 (sends static global v6 addr)
  - TLS with SNI
  - in development, no linux packages
  - help wanted (see github)!
- ddclient
  - IP v4 only, TLS, SNI
- inadyn
  - IP v4 only, TLS, SNI

bepasty

Yet another pastebin...

but for EVERY contenttype!

bepasty – special features

- Text, PDF, Images, Video, Audio, Binaries
- Can deal with large files efficiently.
- Highlights text (many formats with pygments)
- Shows images
- Plays video / audio (html5 player)
- Multi-File Drag & Drop Upload
- Item Lists - point to many files via 1 URL

bepasty – special features (2)

- Simple permissions system:
  - Default (anonymous) → <list of permissions>
  - <some secret> → <list of permissions>
  - Permissions: admin, create, read, delete
- Adjustable expiry: items auto-destruct after x
- REST API

bepasty – the software

- https://github.com/bepasty/bepasty-server

- Free and Open Source Software, BSD licensed

- Python, Flask
- Bootstrap, jQuery, jQuery.File-Upload

Contact

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Meet me at the Python assembly!