

How To Ditch Google & Co and go self-hosted (technology)

by [Futt](#)

I am not happy about how much I rely on shady multinationals for my essential services, and decided to see how much of this stuff I could self-host. After github went full retard, I already have a cheap VPS I found on [LowEndBox](#) that I use to host my own git repos; but decided to see what else I could host myself. So far, I have the server set up with (among other things):

- [PowerDNS](#) to provide name-resolution for my home network, and SOA for domains I own.
- [Apache](#) web server with [LetsEncrypt](#) certificates to provide an HTTPS enabled web server for my applications
- [Postfix](#) and [Dovecot](#) with [Sieve](#) to provide email (SMTP and IMAP)
- [Roundcube](#) webmail for a slick email frontend with lots of features and plugin support.
- [NextCloud](#) (an ownCloud fork) to provide "cloud" storage and groupware functions w/syndication
- [Icinga2](#) provides monitoring and alerts for all the services

So far, so good - everything works just fine. Of course, a more integrated 'turn-key' solution would be preferable (Kolab maybe?) but it's working and performing well. Open standards and protocols also make it easy to integrate the different services. What solution have you chosen? Are there any other services that can easily be self-hosted like this? I am missing a self-hosted online office suite ala google docs, preferably with NextCloud integration.

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[–] [hairybawbag](#) 4 points (+4|-0) 7.9 hours ago

Nice setup. I've been meaning to do a similar thing for a year now but only got as far as using bittorrentsync for backing up mobile phones. Will give NextCloud a go soon hopefully.

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[–] [boggle247](#) 1 points (+1|-0) 7.7 hours ago

Check out Nextcloud plus first. Has many other features already setup so it makes the process a little more noob friendly

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[–] [Professor_de_la_Paz](#) 3 points (+3|-0) 5 hours ago

I bookmarked this page for later reference then [archived it](#) once I remembered how fragile this site is.

Great post!

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[–] [Surfer](#) 3 points (+3|-0) 8 hours ago

Nice! How long did it take you to set up, all in all?

As a noob I've set up my Synology NAS with its integrated cloud solutions, with vpn connection everywhere. Now I'm only needing to increase internet speed, and it's good to go.

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[–] [Futt](#) [S] 1 points (+1|-0) 6.8 hours ago

I love the Synology NAS software, absolutely a great alternative and covers most of the bases if you have the pipes and uptime to handle it. I had an old DS209 that kicked the bucket earlier this year, been meaning to get a new one.

As for time, it's hard to tell. I have been tinkering with it on and off for a couple of days but it would depend on how familiar you are with the software.

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[–] [SuperConductiveRabbi](#) 1 points (+1|-0) 4.1 hours ago

If you look into email hosting with any seriousness you'll see countless stories of people who rejected self-hosting. If their experiences are typical, once you start using your email address for serious purposes your life will be plagued by the double-headed dragon of SPAM and silently failed delivery. If you're lucky you'll get emails bounced back, but you'll always be concerned that incredibly important emails failed to deliver, or the sender was unable to deliver them to you.

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[–] [BentAxel](#) 1 points (+1|-0) 4.2 hours ago (edited 4.2 hours ago)

Thank you for your overview. Best of luck. I as well am so woven into these people's company, I wish there was an easy alternative. But I guess that is the rub. Want easy, I am ripe for picking. Saving this post for later. I might have just inspired me.

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[–] [boredTech](#) 1 points (+1|-0) 5.1 hours ago

Have you messed with docker? It takes a bit of getting used to, but maintenance is easy when in place.

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[–] [InflationSlave](#) 1 points (+1|-0) 4.7 hours ago

Docker is a turd, useful in case you want another layer of abstraction to slow things down or can't otherwise script install/setup.

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[–] [boredTech](#) 0 points (+0|-0) 3.8 hours ago

I'm really not surprised about that opinion of it. But, personally I do like the extra layer of abstraction. It keeps resource management simple, and I have a stupid security setup of running two containers parallel while restarting them (out of rotation). It is a bit more of a resource drain, but not enough for me to care. Plus it's stupid simple to use. But, to each his own.

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[–] [karcyon](#) 1 points (+1|-0) 6.4 hours ago

I am really interested in the cloud storage thing. Replacing Dropbox would be a good thing.

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[–] [ZYX321](#) 1 points (+1|-0) 6.5 hours ago (edited 5.4 hours ago)

Add ejabberd for chat and SIP signaling and baby you've got a soup going.

Edit: Also, Debian (upon which Ubuntu is based) has a strict policy about only including free and open software in its Repos. They're stable branches are REALLY stable, which means, they're also somewhat old. Testing is sufficiently stable with much more frequent updates.

Edit 2: Note that you can use Google or Amazon cloud storage for your next/owncloud instance; But you can have your data encrypted. Nice to be able to use their storage without revealing anything except how often your server reads and writes to their container. Consider using their cheapest tiers of storage for encrypted backups, as well, a la Duplicity. Or find a few buddies with similar interests (Me, I have no friends) and give each other some space for encrypted backups at your homes/businesses; Then you have off-site backups for free.

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[–] [FortniteBlitzkrieg](#) 0 points (+0|-0) 6 hours ago

Does that just coordinate a bunch of chat services so you can use them seamlessly? I'm not getting a clear picture by browsing their website.

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[–] [ZYX321](#) 2 points (+2|-0) 5.5 hours ago (edited 5.4 hours ago)

Ejabberd's primary function is as an XMPP server, which is primarily text based chat, but has support for video, sharing files, multi user rooms, etc. It is fully federate-able with other peoples' XMPP servers. So as with email you can talk to people from other domains. Facebook's chat, Google's chat, and I think Whatsapp were all originally based on XMPP derivatives. Google used to even do federation with other domains. That's one of the ways they built their userbase, and then they shut it down... Check out the Conversations client on Android, Gajim on PC, and get fucked on iOS. With OMEMO encryption, you don't even have to trust the server operators.

SIP is useful for VOIP and video calling.

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[1 reply](#)

[–] [Futt](#) [S] 0 points (+0|-0) 6.4 hours ago

Not a bad idea; I've used prosody before but I am not sure if it handles SIP, might be XMPP only.

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[–] [boggle247](#) 1 points (+1|-0) 7.8 hours ago (edited 7.7 hours ago)

[Nextnote](#) is being worked on right now (not to be confused with Nextcloud notes). It will have rich text format and sharing the doc for collaboration. So it will be very similar to Google docs. I have looked very hard to find anything with collab sharing features and have no luck. There is collabra suites but from what I've read it breaks a lot.

Also, I'd recommend Nextcloud plus. It was originally Nextcloud pi designed for use with raspberry pis and arm chips. But now it can be used on non arm chips. I like it bc it has many security features built in (fail2ban, mod security, firewall, and others) also has several ddns options built in. Also has auto backup features.

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[–] [hairybawbag](#) 1 points (+2|-1) 7.9 hours ago

What security do you have on that server? I'd consider port knocking or something similar to hide it from the rest of the planet when it runs that many open services. If you only use it for yourself that shouldn't be too much problem.

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[–] [Futt](#) [S] 1 points (+1|-0) 6.9 hours ago

It's just for me, but does have it's own firewall, fail2ban, https + reCaptcha for the web services. Public-facing services like ssh, https, smtp/imap and dns are naturally exposed but monitored by fail2ban and encrypted (ssl/tls). All other services only listen on loopback. I would definitely tighten it up a bit if this was a public service though.

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[–] [WhatWouldOdinDo](#) 2 points (+3|-1) 6.4 hours ago

You should think about changing the port sshd is listening on if you haven't already. A lot of attacks assume the

default port and that will cut down your visibility.

There's also replacing passwords with key authentication if you're comfortable with keeping track of your public keys.

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[2 replies](#)

[–] [OryHaraG](#) 0 points (+0|-0) 2.2 hours ago

change out apache for nginx, its better :)

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[–] [mynewaccountagain](#) 0 points (+0|-0) 2.7 hours ago

You host your own SOA for DNS... yeah that's brilliant.

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[–] [RumpRangerRick](#) 0 points (+1|-1) 5.6 hours ago

Look into <https://www.clearos.com/> - I've been using them for years back when they were called ClarkConnect.

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[–] [Futt](#) [S] 0 points (+0|-0) 5.2 hours ago

Interesting, never heard of them. What's your experience with them? How integrated are the apps they provide? Do you host your own hardware or did you opt for a hosted solution?

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[–] [RumpRangerRick](#) 0 points (+0|-0) 3.7 hours ago

I run it as my border firewall. Paid support has always been good. Run it on own hardware.

The apps integrated from their Store are done really well (much of the add-ons are free).

I pay an annual fee for their updated intrusion detection filters. Pretty much the only service of theirs I actually pay for.

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