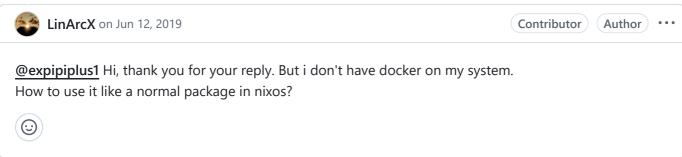
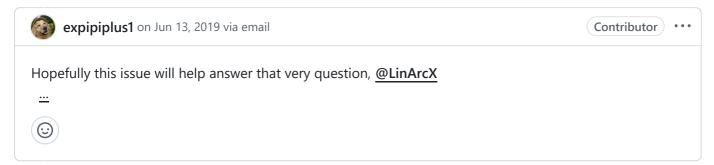
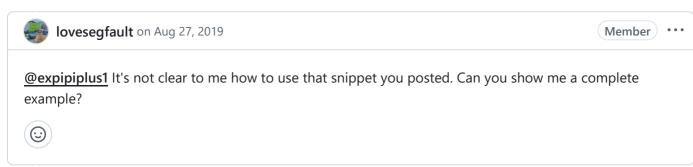
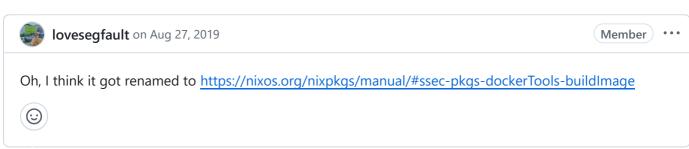


```
"/var/lib/pihole/:/etc/pihole/"
    "/var/lib/dnsmasq.d:/etc/dnsmasq.d/"
];
environment = {
    ServerIP = serverIP;
};
extraDockerOptions = [
    "--cap-add=NET_ADMIN"
    "--dns=127.0.0.1"
    "--dns=1.1.1.1"
];
workdir = "/var/lib/pihole/";
};
```









```
expipiplus1 on Aug 28, 2019 via email

Contributor

Contributor
```

The docker-containers module is a recent addition (last few months I think).

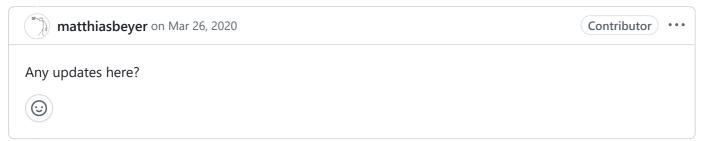
I also have an nginx virtualhost forwarding http to port 3080 for access to the pihole admin console.

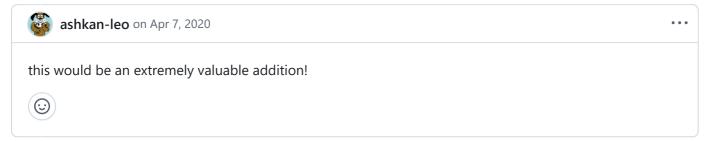
Hope this helps

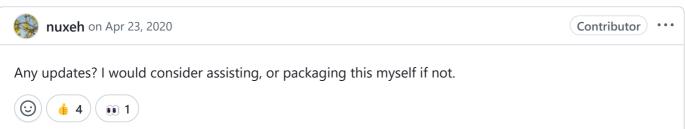
•••

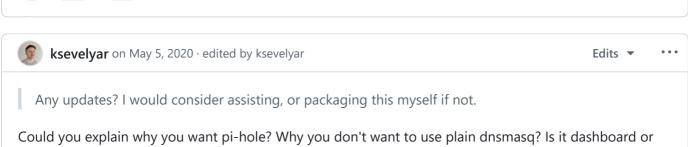












```
services.dnsmasq.enable = true;
services.dnsmasq.extraConfig = ''
domain-needed
```



performance?

```
bogus-priv
no-resolv
server=208.67.220.220
server=8.8.4.4
listen-address=::1,127.0.0.1,192.168.0.1
bind-interfaces
cache-size=10000
log-queries
log-facility=/tmp/ad-block.log
local-ttl=300
conf-file=/etc/nixos/assets/hosts-blocklists/domains.txt
addn-hosts=/etc/nixos/assets/hosts-blocklists/hostnames.txt
```

https://github.com/ksevelyar/dotfiles/blob/b633fa5b725988c8b521e5f99984e25bc13be1e5/modules/rout er.nix#L36-L55

https://github.com/notracking/hosts-blocklists





nuxeh on May 5, 2020

Contributor •••

Pi hole is a well established turnkey solution, which additionally provides monitoring and configuration as you say. I for one wasn't aware that it was so easy to configure dnsmasq to do the same thing so easily, albeit in a slightly less user friendly or visible way.

Really I think it comes down to the fact that people know about pi hole and want to install it on their NixOS system, if there's a package for it that's an advantage, surely?







horkhork on May 6, 2020 · edited by horkhork

Edits ▼

I came to a similar conclusion as ksevelyar. I've used pihole for quite a while and it is very nice, but it's got a lot of bells and whistles that aren't really necessary.

I'm in the process of switching to dnscrypt-proxy2, which looks like it will do the job of adblocking just as well as pihole.

I started started to create my own custom channel + derivation for wrapping https://github.com/DNSCrypt/dnscrypt-proxy/blob/master/utils/generate-domains-blacklists/generatedomains-blacklist.py to automate blacklist updates, and while it does work, it might be a bit too crufty to share at this point.





nuxeh on May 11, 2020

Contributor)

It's been a while, but I have the pi-hole tools (pihole and pihole-FTL) packaged and working, and the web interface running. Now I'm just working on the modules, and configuring it all to work as it should.

It's not the easiest project in the world to package, lots of hard-coded paths for the files it needs at runtime, many of which have a mysterious function that needs some research to find out what it's needed for, across quite a lot of bash scripts. Also a couple of small hurdles needed to be overcome to get FTL building with the currently packaged Nix build tools and libraries, and being able to have it spawned by systemd correctly at runtime.

When it's doing something useful, I'll put it on a branch/draft PR so that anyone who's interested can test it.







JamieMagee on Oct 4, 2020

Member) •••

@nuxeh Thank you for your effort in packaging pi-hole. Could you share your configuration so that others can continue to work on it?







nuxeh on Oct 4, 2020

Contributor

@JamieMagee sure, I'll review it and point you to a branch in the next few days. I'm away at the moment and don't have access to my development computer until next week.







JamieMagee on Oct 26, 2020

Member

@nuxeh Have you had a chance to create a branch for your work?





nuxeh on Nov 1, 2020

Contributor)

Hey @JamieMagee, apologies, I've had some difficulty getting a chance to look a this again, but here is a branch for the original work I did on it.

https://github.com/nuxeh/nixpkgs/tree/add-pi-hole

I was planning to upgrade all the packages, but they changed the pihole-FTL to using CMake recently, so that turned out to be a non-trivial change, and since I did a certain amount of testing with the 5.0 I thought it could be better to share it with that "working" version.

Here is a vm.nix for testing with nixos-shell:

```
{ config, pkgs, ... }:
{
  boot.kernelPackages = pkgs.linuxPackages_latest;
  services.openssh.enable = true;

  virtualisation.qemu.networkingOptions = [
    "-net nic,netdev=user.0,model=virtio"
    "-netdev user,id=user.0,hostfwd=tcp::8888-:80"
];

  services.pihole = {
    enable = true;
    interface = "eth0";
    webInterface = true;
};

  networking.firewall.enable = false;
}
```

Which can be run with the following from a checked out nixpkgs tree:

```
NIX_PATH=nixpkgs=. nixos-shell
```



Q

From there, you can access the port-forwarded web UI at http://localhost:8888/pihole/.

Generally regarding my original progress on this, I got the pihole-FTL service to build and run, and the web interface hosted with lighttpd, but after that point, since I haven't actually used pihole before, I wasn't very sure what a "working" install would look like, so I lost some momentum.

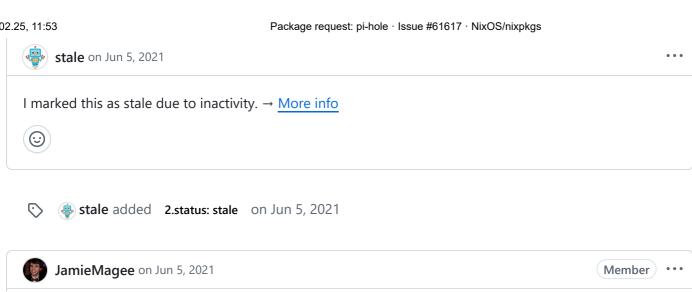
The pihole core is a bunch of bash scripts with hard-coded paths, I took a naive approach of attempting to patch all those paths, but somehow feel that there might be a better way to get it working.

Hope this helps!





- ☐ JamieMagee mentioned this on Dec 31, 2020
 - \$\frac{1}{4} \text{ pihole-ftl: init at 5.8.1 #108055}
- Iunik1 mentioned this on Apr 25, 2021
 - hixos/adguardhome: init #120568



Not stale. There is a PR in progress.



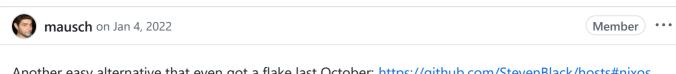
🌞 stale removed 🛮 2.status: stale 🔻 on Jun 5, 2021



This issue has been mentioned on NixOS Discourse. There might be relevant details there:

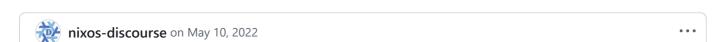
https://discourse.nixos.org/t/is-pi-hole-available-in-nixpkgs/14916/2





Another easy alternative that even got a flake last October: https://github.com/StevenBlack/hosts#nixos





This issue has been mentioned on NixOS Discourse. There might be relevant details there:

https://discourse.nixos.org/t/why-did-pihole-container-stop-working/19066/1



- samhh mentioned this on Jun 3, 2022



Contributor

PSA: In addition to AdGuard Home, NixOS also has a module for blocky. Both seem like nice alternatives to Pi-hole.

Open

Package request: pi-hole #61617



- samhh mentioned this on Nov 8, 2022
 - On't inherit DNS from DHCP on Tentacool samhh/dotfiles#364
- williamvds mentioned this on Apr 5, 2023
 - 🖁 🖁 pihole: init at various #224881



SgtPooki on Apr 2, 2024

Thanks samhh for samhh/dotfiles@ 8193c3e . I tried blocky and dnsmasq and as a NixOS noob I couldn't get them working, but your pihole in docker container .nix file worked flawlessly





Contributor

PSA: In addition to AdGuard Home, NixOS also has a module for blocky. Both seem like nice alternatives to Pi-hole.

https://github.com/TechnitiumSoftware/DnsServer is another alternative. It replaced Pi-hole and Unbound for me. I recently added a package and a module for it.





- Pandapip1 added 0.kind: packaging r... and removed 9.needs: package (... on Sep 22, 2024
- williamvds mentioned this on Dec 3, 2024
 - 🗓 pihole: init at various #361571



Add a comment

