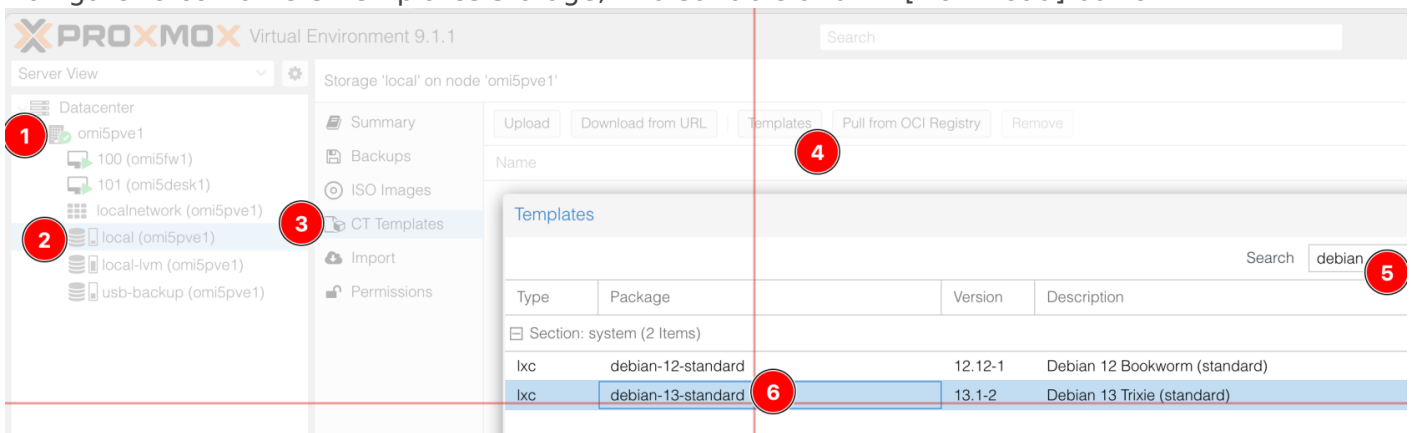


Pi-hole on container in Proxmox

Login into Proxmox

Download Debian distro template for containers. For some reason it might be cancelled or disrupted. As we now, which one template is expecting to find, let's download that manually. Navigate to containers' templates storage, find suitable and hit [Download] button



Download task itself



Template downloaded

PROXMOX Virtual Environment 9.1.1

Search

Documentation

Create VM

Create CT

root@pam

Server View

Datacenter

omi5pve1

100 (omi5fw1)

101 (omi5desk1)

localnetwork (omi5pve1)

local (omi5pve1)

local-lvm (omi5pve1)

usb-backup (omi5pve1)

Storage 'local' on node 'omi5pve1'

Help

Summary

Backups

ISO Images

CT Templates

Import

Permissions

Upload

Download from URL

Templates

Pull from OCI Registry

Remove

Search: Name, Format

Name	Date	Format	Size
debian-13-standard_13.1-2_amd64.tar.zst	2026-04-13 06:09:42	tzst	129.71 MB

Script location:

https://community-scripts.org/scripts/pihole?id=pihole

community-scripts.org/scripts/pihole?id=pihole

Proxmox VE Scripts All Scripts Categories Generator Docs Community

Search scripts...

← All scripts

Pi-Hole

LXC Updateable

Adblock & DNS

ABOUT

Pi-hole is a free, open-source network-level advertisement and Internet tracker blocking application. It runs on a Raspberry Pi or other Linux-based systems and acts as a DNS sinkhole, blocking unwanted traffic before it reaches a user's device. Pi-hole can also function as a DHCP server, providing IP addresses and other network configuration information to devices on a network. The software is highly configurable and supports a wide range of customizations, such as allowing or blocking specific domains, setting up blocklists and whitelists, and customizing the appearance of the web-based interface. The main purpose of Pi-hole is to protect users' privacy and security by blocking unwanted and potentially malicious content, such as ads, trackers, and malware. It is designed to be easy to set up and use, and can be configured through a web-based interface or through a terminal-based command-line interface.

NOTES

INFORMATION

To set your password, log in to the container, and type the following: `pihole setpassword`

With an option to add Unbound

With an option to configure Unbound as a forwarding DNS server (using DNS-over-TLS (DoT)) as opposed to a recursive DNS server

WARNINGS

WARNING: Installation sources scripts outside of Community Scripts repo. Please check the source before installing.

INSTALL

GitHub Gitea Default Advanced

Run the command below in the Proxmox VE Shell to install Pi-Hole.

```
bash -c "$(curl -fsSL https://raw.githubusercontent.com/community-scripts/ProxmoxVE/main/ct/pihole.sh)"
```

Copy command

WHAT'S NEW

5 releases

v6.4.1 LATEST 9 days ago

What's Changed

- Remove additional ':' from debug log system time output by @yubiuser in <https://github.com/pi-hole/pi-hole/pull/6551>
- Remove `readonly` from `piholeNetworkFlush.sh` to avoid error message by @rdwebdesign in <https://github.com/pi-hole/pi-hole/pull/6554>
- Add antigravity index by @DL6ER in <https://github.com/pi-hole/pi-hole/pull/6573>
- Fix return status capture of FTL check_download exists by @yubiuser in <https://github.com/pi-hole/pi-hole/pull/6572>
- Remove misleading TODO comment for SetWebPassword by @10adnan75 in <https://github.com/pi-hole/pi-hole/pull/6531>

Security Advisories

- GHSA-c935-8g63-qp74 – Local Privilege Escalation reported by @smittix

ACCESS

Port :80

DETAILS

Version v6.4.1

Category Adblock & DNS

GitHub Source

Website Link

Docs Link

Config /etc/pihole/pihole.toml

Install source code View

Update source code View

Runs in PVE

Updated 13 Mar 2026

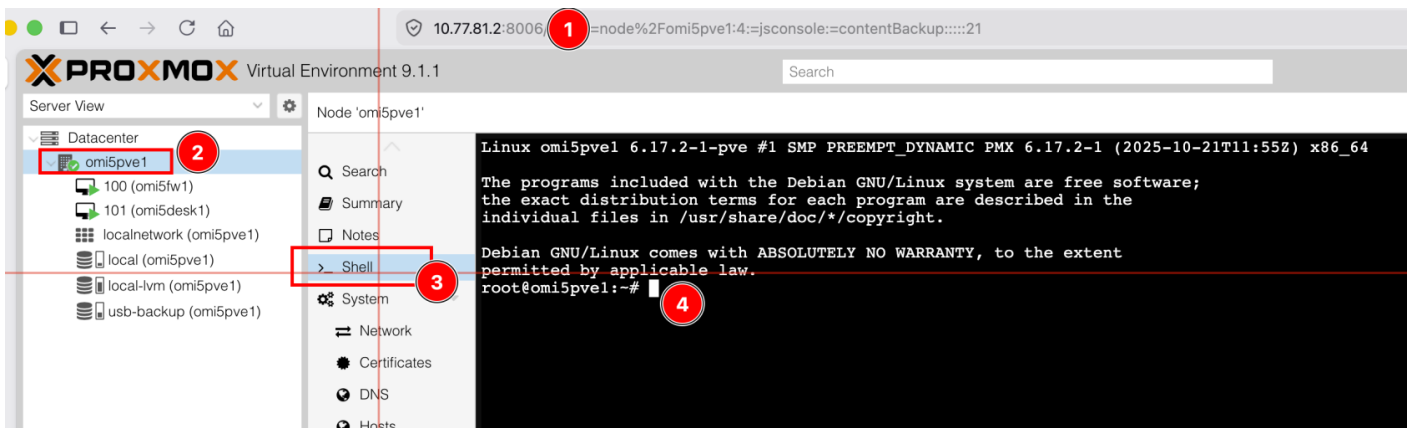
INSTALL METHODS

default Debian 13

1 CPU 512 RAM 2 HDD

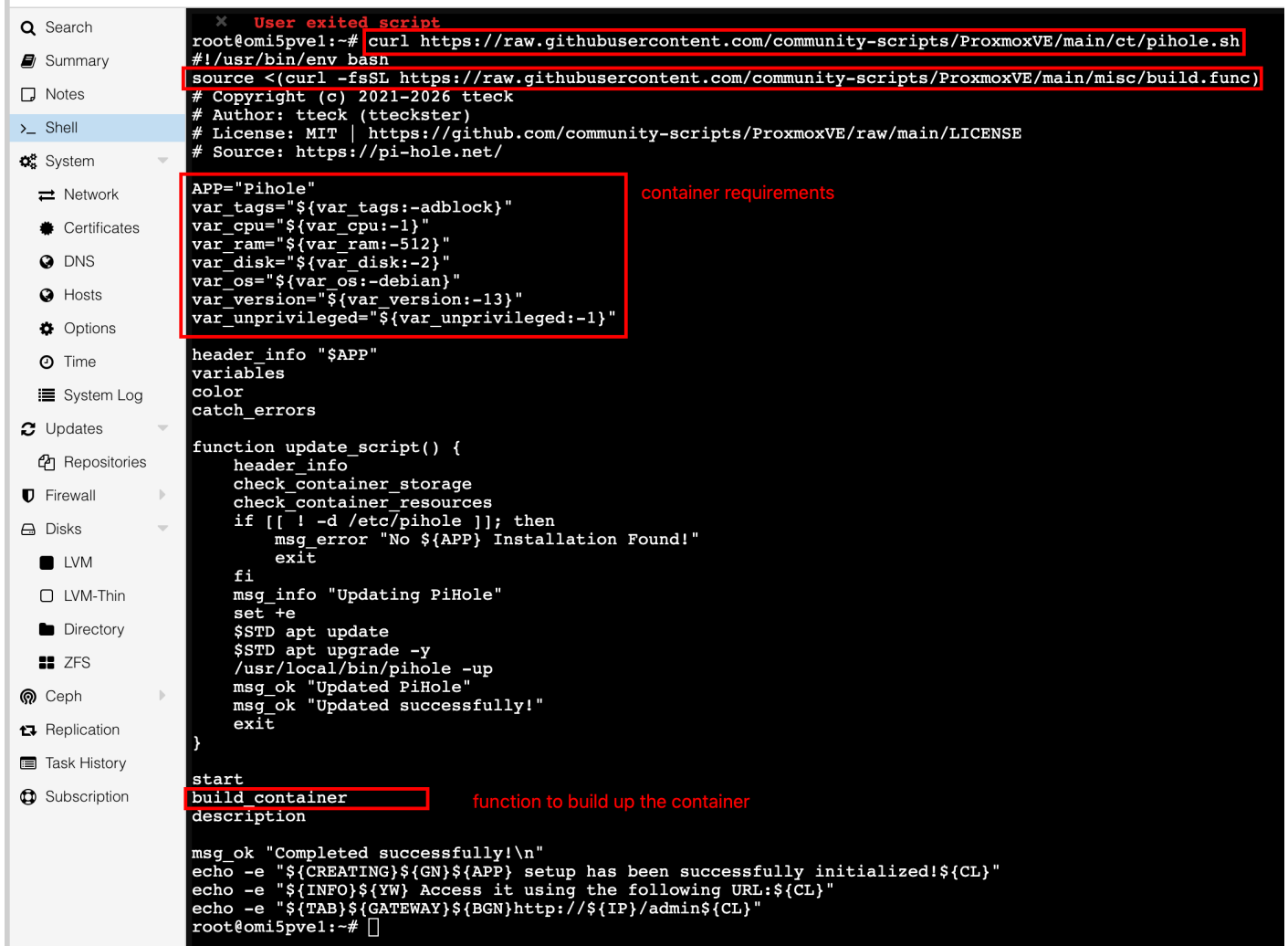
Report issue

```
curl https://raw.githubusercontent.com/community-scripts/ProxmoxVE/main/ct/pihole.sh
```



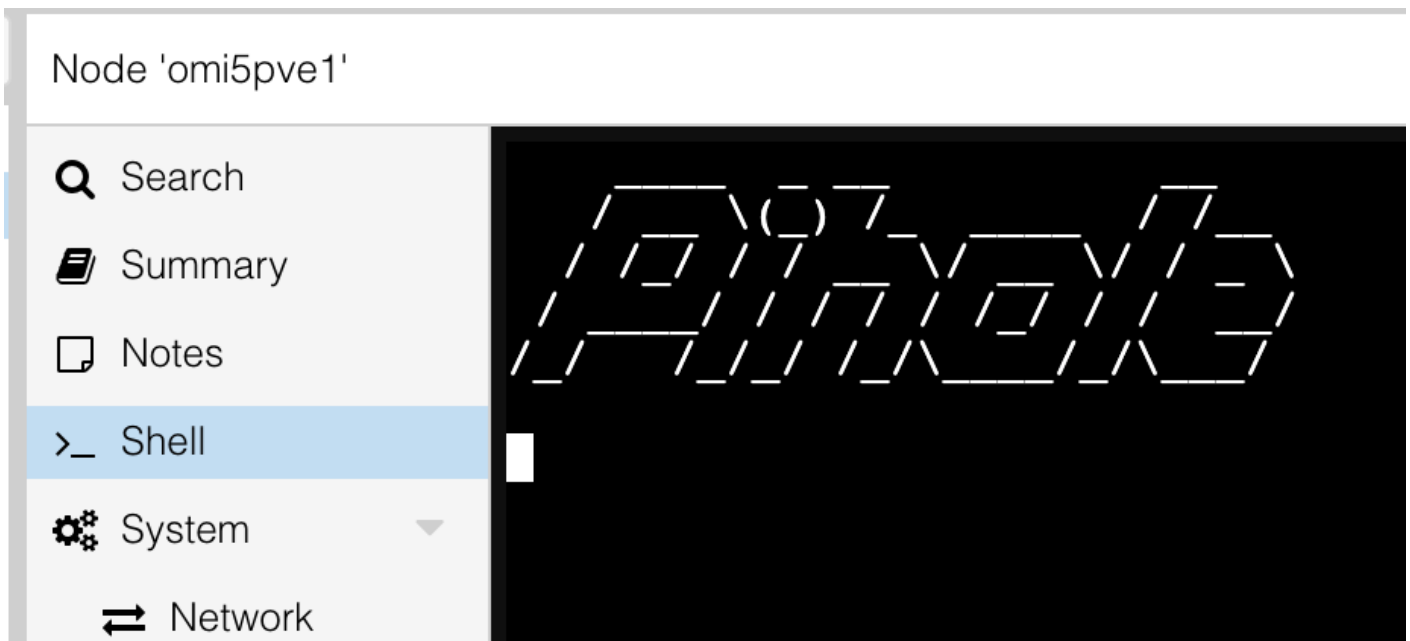
Paste and execute, this will download a script and execute it on hypervisor:

Let's see what is inside of this script

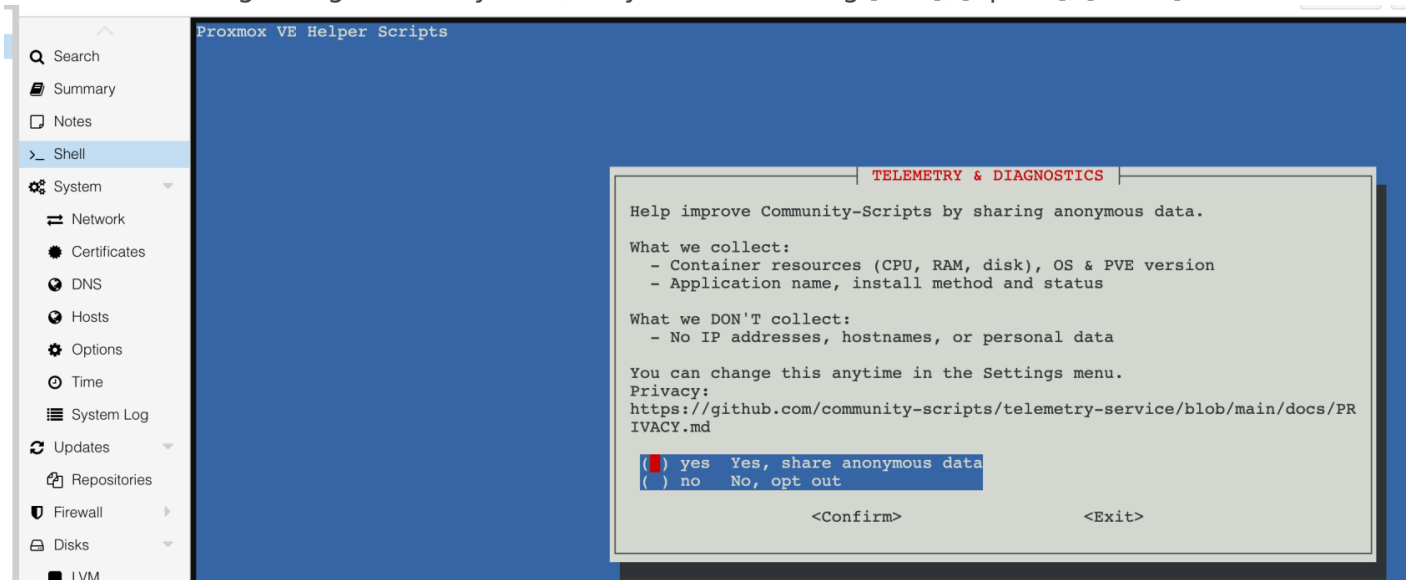


and invoke it's from the shell, when confident:

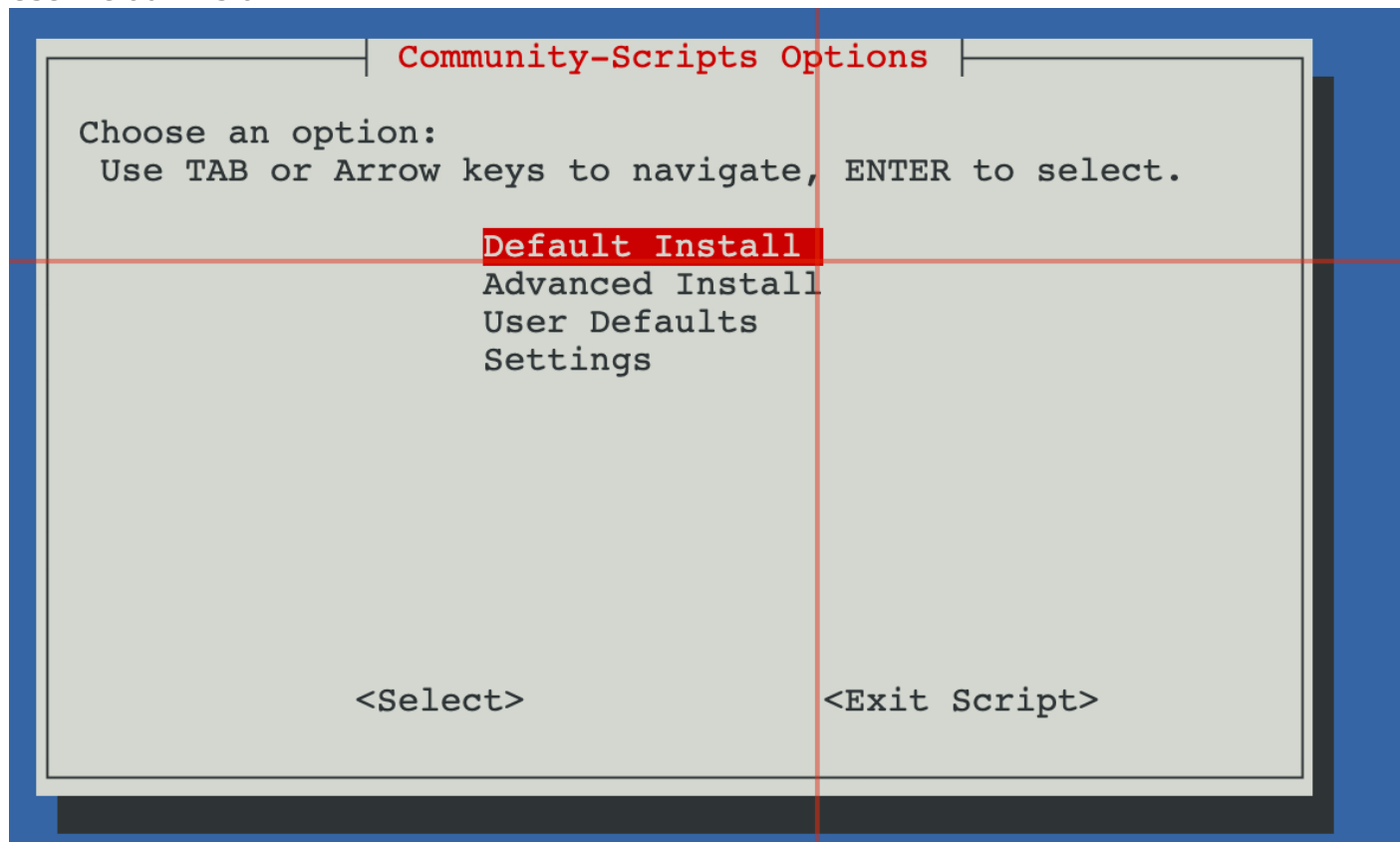
```
bash -c "$(curl -fsSL https://raw.githubusercontent.com/community-scripts/ProxmoxVE/main/ct/pihole.sh)"
```



First screen is regarding telemetry data, do you choice using [Tab], [Space], [Enter]:



Use 'Default Install'



Begin, this will look for Debian Linux distro (and if necessary download it):

Search

Summary

Notes

Shell

System

- Network
- Certificates
- DNS
- Hosts
- Options
- Time
- System Log

Updates

- Repositories

Firewall

Disks



⚙️ Using Default Settings on node omi5pve1

💡 PVE Version 9.1.1 (Kernel: 6.17.2-1-pve)

🆔 Container ID: 102

📁 Operating System: debian (13)

📁 Container Type: Unprivileged

📁 Disk Size: 2 GB

🧠 CPU Cores: 1

📁 RAM Size: 512 MiB

🚀 Creating a Pihole LXC using the above default settings

✓ Storage local (Free: 26.2GB Used: 8.7GB) [Template]

✓ Storage local-lvm (Free: 13.1GB Used: 36.3GB) [Container]

✓ Storage 'local-lvm' (lvmthin) validated

✓ Template storage 'local' validated

✓ Template search completed

💡 Template debian-13-standard_13.1-2_amd64.tar.zst [local]

💡 An update for the Proxmox LXC stack is available

pve-container: installed=6.0.18 candidate=6.1.2

lxc-pve : installed=6.0.5-3 candidate=6.0.5-4

Do you want to upgrade now? [y/N] ☐

Search

Summary

Notes

Shell

System

- Network
- Certificates
- DNS
- Hosts
- Options
- Time
- System Log

Updates

- Repositories



⚙️ Using Default Settings on node omi5pve1

💡 PVE Version 9.1.1 (Kernel: 6.17.2-1-pve)

🆔 Container ID: 102

📁 Operating System: debian (13)

📁 Container Type: Unprivileged

📁 Disk Size: 2 GB

🧠 CPU Cores: 1

📁 RAM Size: 512 MiB

🚀 Creating a Pihole LXC using the above default settings

✓ Storage space validated

✓ Storage local (Free: 26.6GB Used: 8.4GB) [Template]

✓ Storage local-lvm (Free: 13.1GB Used: 36.2GB) [Container]

✓ Storage 'local-lvm' (lvmthin) validated

✓ Template storage 'local' validated

✓ Template search completed

💡 Template debian-13-standard_13.1-2_amd64.tar.zst [online]

⚡ Attempt 1: Downloading template debian-13-standard_13.1-2_amd64.tar.zst to local

Script will download container and do configuration of container

Now, when container is ready, Proxmox's script will invoke Pi-hole script (which is actual application installer)

```
Node 'omi5pve1' [Reboot]

Search
Summary
Notes
Shell
System
Network
Certificates
DNS
Hosts
Options
Time
System Log
Updates
Repositories
Firewall
Disks
LVM
LVM-Thin
Directory
ZFS
Ceph
Replication
Task History
Subscription

Using Default Settings on node omi5pve1
PVE Version 9.1.1 (Kernel: 6.17.2-1-pve)
Container ID: 102
Operating System: debian (13)
Container Type: Unprivileged
Disk Size: 2 GB
CPU Cores: 1
RAM Size: 512 MiB
Creating a Pihole LXC using the above default settings

Storage local (Free: 26.2GB Used: 8.7GB) [Template]
Storage local-lvm (Free: 13.1GB Used: 36.3GB) [Container]
Storage 'local-lvm' (lvmthin) validated
Template storage 'local' validated
Template search completed
Template debian-13-standard_13.1-2_amd64.tar.zst [local]
An update for the Proxmox LXC stack is available
pve-container: installed=6.0.18 candidate=6.1.2
lxc-pve : installed=6.0.5-3 candidate=6.0.5-4

Do you want to upgrade now? [y/N] y
LXC stack upgraded.
LXC Container 102 was successfully created.
Started LXC Container
Network in LXC is reachable (ping)
Customized LXC Container
Set up Container OS
Network Connected: 10.77.81.110
IPv4 Internet Connected
IPv6 Internet Not Connected
Git DNS: github.com:(✓) raw.githubusercontent.com:(✓) api.github.com:(✓) git.community-scripts.org:(✓)
Updated Container OS
WARNING: This script will run an external installer from a third-party source (https://pi-hole.net/).
The following code is NOT maintained or audited by our repository.
If you have any doubts or concerns, please review the installer code before proceeding:
→ https://install.pi-hole.net

Do you want to continue? [y/N]:
```

Final question is about 'Unbound' service

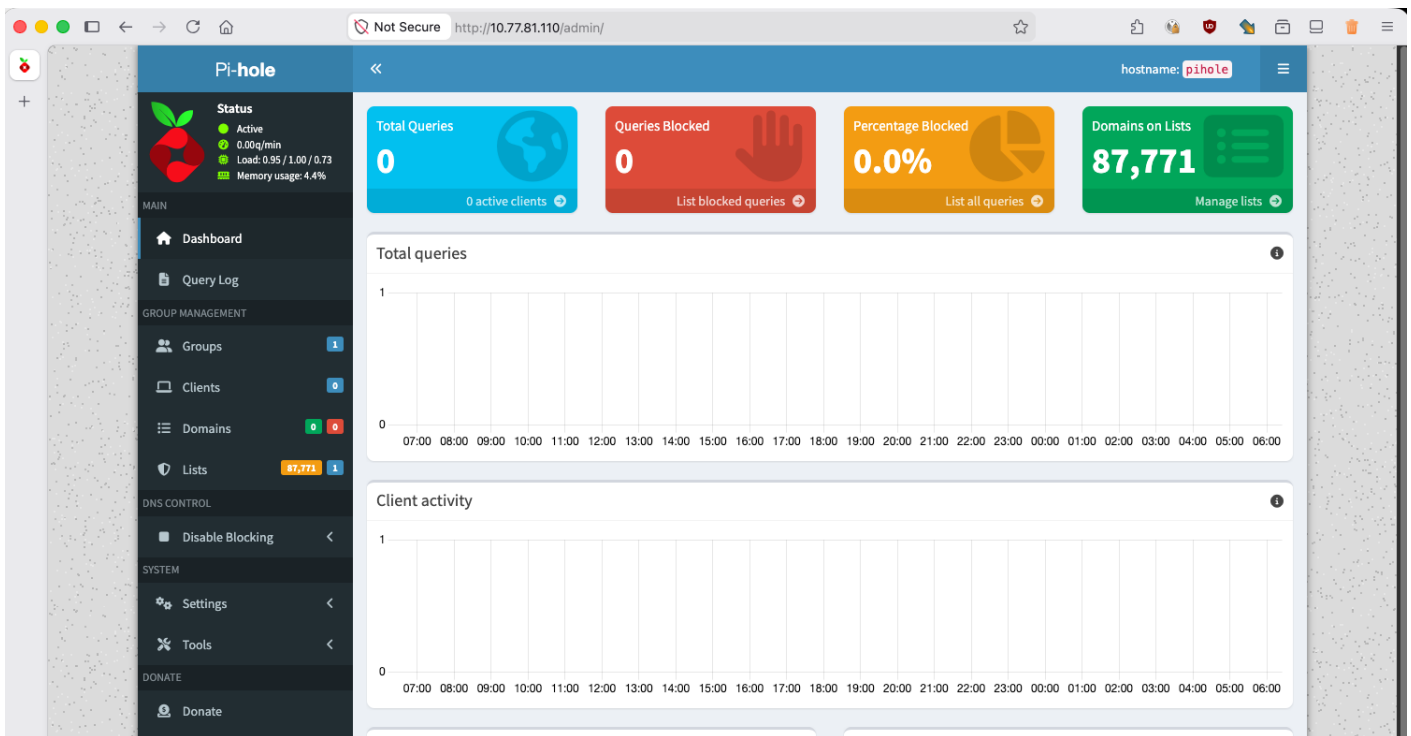
```
Updated Container OS
WARNING: This script will run an external installer from a third-party source (https://pi-hole.net/).
The following code is NOT maintained or audited by our repository.
If you have any doubts or concerns, please review the installer code before proceeding:
→ https://install.pi-hole.net

Do you want to continue? [y/N]: y
Installed Dependencies
Installed Pi-hole
Would you like to add Unbound? <y/N> n
Customized Container
Cleaned
Completed successfully!

Pihole setup has been successfully initialized!
Access it using the following URL:
http://10.77.81.110/admin
root@omi5pve1:~#
```

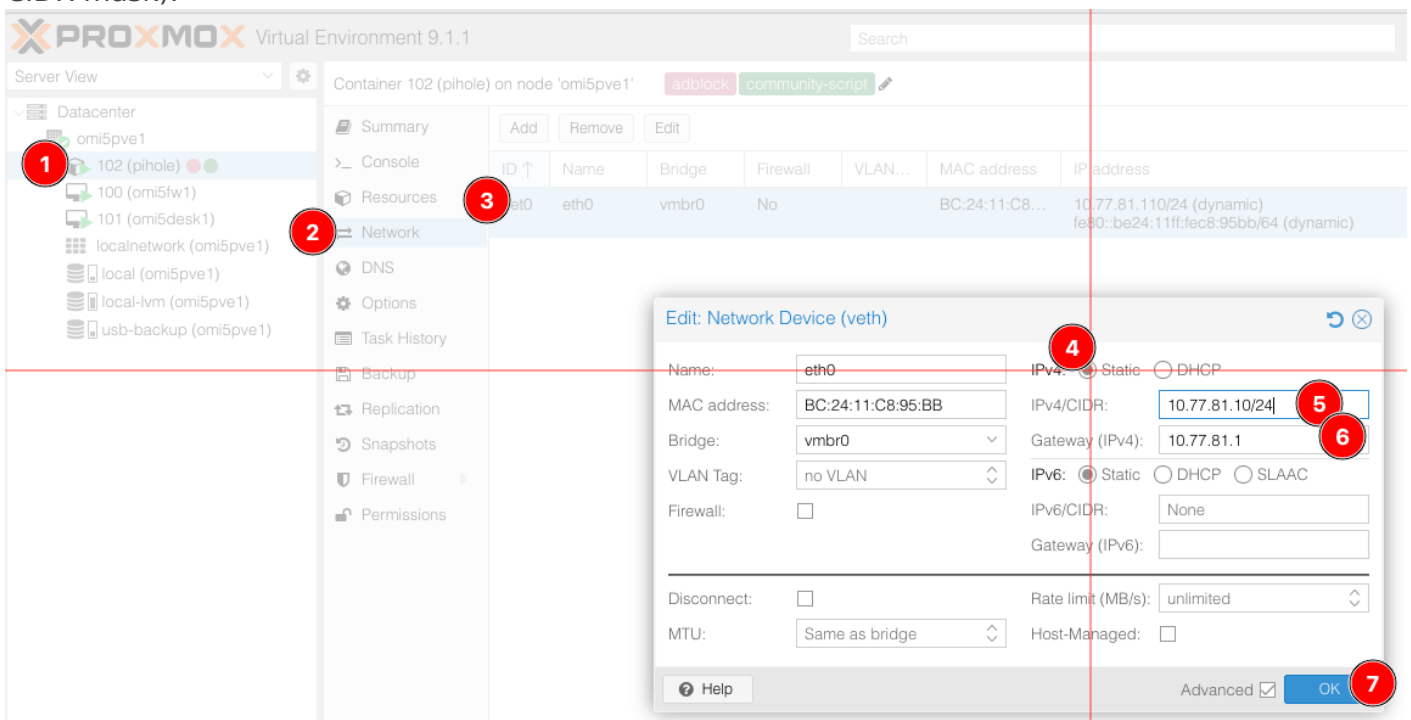
Check in the browser the URL, which is indicated by installer.

http://10.77.81.110/admin



Configuration of Pi-hole is described in another page.

The only change we want to perform is to change IP address. Locate container, open it's network configuration, change from DHCP to STATIC and define desired IP address (remember do define CIDR mask).



Open container's shell , take a note of network address and perform restart

```
ip -br a
shutdown -r now
```

Verify after reboot again

```
Pihole LXC Container
Provided by: community-scripts ORG | GitHub: https://github.com/community-scripts/ProxmoxVE

OS: Debian GNU/Linux - Version: 13
Hostname: pihole
IP Address: 10.77.81.10

root@pihole:~# ip -br a
lo UNKNOWN 127.0.0.1/8 ::1/128
eth0@if14 UP 10.77.81.10/24 fe80::be24:11ff:fec8:95bb/64

root@pihole:~#

Pihole LXC Container
Provided by: community-scripts ORG | GitHub: https://github.com/community-scripts/ProxmoxVE

OS: Debian GNU/Linux - Version: 13
Hostname: pihole
IP Address: 10.77.81.110

root@pihole:~#
root@pihole:~#
root@pihole:~#
root@pihole:~# ip -br a
lo UNKNOWN 127.0.0.1/8 ::1/128
eth0@if13 UP 10.77.81.110/24 10.77.81.10/24 fe80::be24:11ff:fec8:95bb/64
root@pihole:~# shutdown -r now
```

Last thing, before go: verify that container has "Start on boot" tick box enabled. Thus, we shall be sure that DNS server will be started with hypervisor. That applies to all machines, which need to be started (such as main router :)

PROXMOX Virtual Environment 9.1.1

Server View

Container 102 (pihole) on node 'omi5pve1'

adblock community-script

1 102 (pihole)

2 Options

3 Start at boot

Property	Value
Start at boot	Yes
Start/Shutdown order	order=any
OS Type	debian
Architecture	amd64
/dev/console	Enabled
TTY count	2
Console mode	tty
Protection	No
Unprivileged container	Yes
Features	nesting=1,keyctl=1
Entrypoint	/sbin/init
Environment	none

Next morning, after the first day of DNS traffic

With no filtering lists loads, DNS server serverd 54% of cached traffic to local clients. That is very good, which means, that local clients received DNS response earlier, rather then for original query.



Revision #6

Created 13 April 2026 02:12:58 by Anton

Updated 14 April 2026 03:46:49 by Anton