

# piHole installieren

## Avahi installieren

```
# Avahi installieren

apt-get install avahi-daemon

# Hosts Datei anpassen

nano /etc/hosts

### Eintragen

# Als zweite Zeile
127.0.0.1 pihole.local

# und in PVE
pihole.local abändern
```

## Repository hinzufügen

```
apt install software-properties-common
```

## PiHole installieren

```
curl -sSL https://install.pi-hole.net | bash
```

# Unbound installieren

<https://docs.pi-hole.net/guides/dns/unbound/>

>

We will use `unbound`, a secure open-source recursive DNS server primarily developed by NLnet Labs, VeriSign Inc., Nominet, and Kirei. The first thing you need to do is to install the recursive DNS resolver:

```
sudo apt install unbound
```

If you are installing unbound from a package manager, it should install the `root.hints` file automatically with the dependency `dns-root-data`. The root hints will then be automatically updated by your package manager.

**Optional:** Download the current root hints file (the list of primary root servers which are serving the domain "." - the root domain). Update it roughly every six months. Note that this file changes infrequently. This is only necessary if you are not installing unbound from a package manager. If you do this optional step, you will need to uncomment the `root-hints:` configuration line in the suggested config file.

```
wget https://www.internic.net/domain/named.root -qO- | sudo tee /var/lib/unbound/root.hints
```

## Konfiguration von pihole.conf

Für DNS over TLS

`/etc/unbound/unbound.conf.d/pi-hole.conf`

```
server:
  use-syslog: yes
  do-daemonize: no
  interface: 127.0.0.1
  port: 5335
  access-control: 127.0.0.0/8 allow
  cache-min-ttl: 3600
  cache-max-ttl: 86400
```

```
prefetch: yes
qname-minimisation: yes
harden-below-nxdomain: yes
harden-referral-path: yes
```

```
forward-zone:
```

```
name: "."
forward-tls-upstream: yes
forward-addr: 194.242.2.3@853 # Mullvad
forward-addr: 94.140.14.14@853 # Adguard
```

Nach dem ändern mit `sudo systemctl restart unbound` neu starten

---

Revision #3

Created 21 March 2023 08:22:32 by Hermann

Updated 11 November 2025 06:45:29 by Hermann