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 phihole.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

>

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
```

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

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