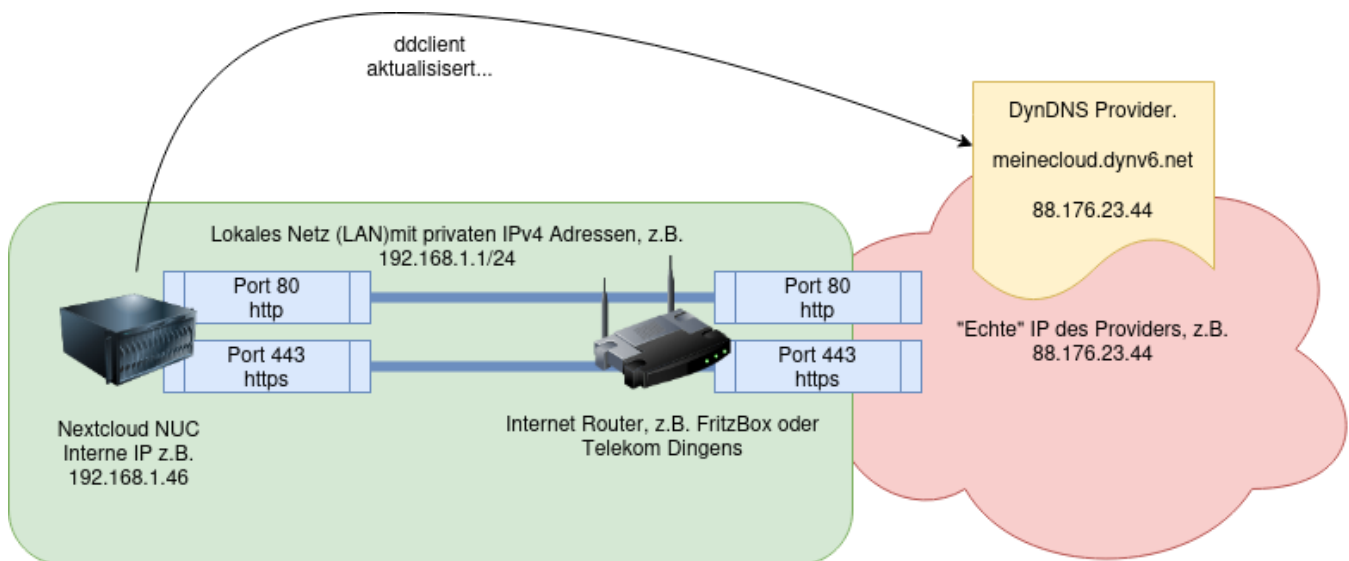


Freigabe ins Internet

Zertifikate

- Zertifikate kann man nur erhalten, wenn man einen DNS Namen hat, z.B. wolke.qg-moessingen.de. der Host muss auf Port 80 und Port 443 erreichbar sein.
- Problem: Die IP-Adresse an einem Hausanschluss ändert sich gelegentlich.
- Lösung: Ein „Dyndns“ Provider, z.B. dynv6.com



DynDNS mit dynv6.com

- <https://dynv6.com/> öffnen und einen Host/Domainnamen wählen - gültige Mailadresse angeben.
- Bestätigungsmail öffnen, Bestätigungslink anklicken
- Melde dich bei dynv6.com an
- Auf dem Nextcloud Server das Paket ddclient installieren: `apt install ddclient`. Alle Rückfragen kann man zunächst bei der Installation mit Enter leer lassen und bestätigen.
- Editiere die Datei `/etc/ddclient.conf`:

```
ssl=yes
protocol=dyndns2
use=web, web=ipify-ipv4
server=dynv6.com
login=none
password='DEIN_TOKEN_AUS_DEINEM_ACCOUNT'
DEINHOST.DEINE.DOMAIN
```

Anschließend kannst du die Funktion auf der Kommandozeile testen:

```
ddclient -daemon=0 -debug -verbose -noquiet -force
```

und

```
ddclient -daemon=0 -debug -verbose -noquiet
```

Wenn das klappt, kann man den ddclient-Daemon neu starten: `systemctl restart ddclient.service`, mit `journalctl -f -u ddclient` kann man die Meldungen des Daemons im Log anschauen.

Portweiterleitung am Router

- Demo an den PT mit der Fritz Box der Schule.
- Port 80 und 443 sollten an die interne IP-Adresse der Cloud weitergeleitet werden.

Zertifikat erhalten mit mod_md

- Mod-MD Paket installieren: `apt install libapache2-mod-md`
- SSL und Mod-MD bei apache anschalten: `a2enmod ssl md` und `systemctl restart apache2` * Nun muss man die Datei `/etc/apache2/sites-enabled/000-default.conf` anpassen, so dass sie wie unten aussieht - `meinecloud.dns.army` muss dabei alletrdings durch einen DynDNS Namen ersetzt werden.

```
ServerName meinecloud.dns.army
```

```
MDomain meinecloud.dns.army
MDContaktEmail certifica@ua25.de
MDCertificateAgreement accepted
MDPrivateKeys RSA 4096
```

```
<VirtualHost *:80>
```

```
    # The ServerName directive sets the request scheme, hostname and port
    that
```

```
    # the server uses to identify itself. This is used when creating
    # redirection URLs. In the context of virtual hosts, the ServerName
    # specifies what hostname must appear in the request's Host: header to
    # match this virtual host. For the default virtual host (this file) this
    # value is not decisive as it is used as a last resort host regardless.
    # However, you must set it for any further virtual host explicitly.
    #ServerName www.example.com
```

```
    ServerAdmin webmaster@localhost
    DocumentRoot /srv/nextcloud
    <Directory "/srv/nextcloud">
        AllowOverride all
        Require all granted
    </Directory>
```

```
    # Available loglevels: trace8, ..., tracel, debug, info, notice, warn,
    # error, crit, alert, emerg.
```

```
# It is also possible to configure the loglevel for particular
# modules, e.g.
#LogLevel info ssl:warn

ErrorLog ${APACHE_LOG_DIR}/error.log
CustomLog ${APACHE_LOG_DIR}/access.log combined

# For most configuration files from conf-available/, which are
# enabled or disabled at a global level, it is possible to
# include a line for only one particular virtual host. For example the
# following line enables the CGI configuration for this host only
# after it has been globally disabled with "a2disconf".
#Include conf-available/serve-cgi-bin.conf
</VirtualHost>

<VirtualHost *:443>
    # The ServerName directive sets the request scheme, hostname and port
    # that
    # the server uses to identify itself. This is used when creating
    # redirection URLs. In the context of virtual hosts, the ServerName
    # specifies what hostname must appear in the request's Host: header to
    # match this virtual host. For the default virtual host (this file) this
    # value is not decisive as it is used as a last resort host regardless.
    # However, you must set it for any further virtual host explicitly.
    #ServerName www.example.com

    ServerAdmin webmaster@localhost
    DocumentRoot /srv/nextcloud
    <Directory "/srv/nextcloud">
        AllowOverride all
        Require all granted
    </Directory>

    # Available loglevels: trace8, ..., tracel, debug, info, notice, warn,
    # error, crit, alert, emerg.
    # It is also possible to configure the loglevel for particular
    # modules, e.g.
    #LogLevel info ssl:warn

    ErrorLog ${APACHE_LOG_DIR}/error.log
    CustomLog ${APACHE_LOG_DIR}/access.log combined

    # For most configuration files from conf-available/, which are
    # enabled or disabled at a global level, it is possible to
    # include a line for only one particular virtual host. For example the
    # following line enables the CGI configuration for this host only
    # after it has been globally disabled with "a2disconf".
    #Include conf-available/serve-cgi-bin.conf
    SSLEngine on
</VirtualHost>
```

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