

# Proxmox container 'nextcloud.test'

## Status

- läuft, beta

## Container setup

- image: debian10 with users
- 1. Netzwerkinterface
  - eth0
  - 10.2.0.20/24 DG: 10.2.0.254; fd00:10:2:0::20/64 DGfd00:10:2:0::0
  - bridge: vmbr0
- 2. Netzwerkinterface:
  - eth1,
  - 10.3.0.20/24 DG: 10.3.0.254; fd00:10:3:0::20/64 DGfd00:10:3:0::0
  - bridge: vmbr1

## Ansible setup

- verbindet man sich als unprivilegierter user und möchte ein Command als ein anderer, unprivilegierter user ausführen (z.B. www-data), benötigt man

```
allow_world_readable_tmpfiles = yes
```

in der ansible.cfg, damit dies nicht als Fehler zum Abbruch führt.

## Ansible Script

```
#!/usr/bin/env ansible-playbook

- name: 'install nextcloud'
  hosts: nextcloud
  become: true

  tasks:
  - name: remove apache2
    apt:
      name: apache2
      state: absent

  - name: install packages
    apt:
      pkg:
        - php7.3
        - php7.3-curl
        - php7.3-gd
        - php7.3-json
        - php7.3-xml
        - php7.3-mbstring
        - php7.3-zip
        - php7.3-mysql
        - php7.3-bz2
        - php7.3-intl
        - php7.3-redis
        - php7.3-imagick
        - php7.3-fpm
        - ffmpeg
```

```
- nginx

- name: check if nextcloud is already installed
  stat:
    path: /var/www/nextcloud
    register: nextcloud_exists

- name: Download nextcloud and unpack
  unarchive:
    src: https://download.nextcloud.com/server/releases/nextcloud-20.0.0.zip
    dest: /var/www
    owner: www-data
    group: www-data
    remote_src: yes
  when: not nextcloud_exists.stat.exists

- name: Remove file packed file
  file:
    path: /var/www/nextcloud-20.0.0.zip
    state: absent

- name: first setup nextcloud
  become_user: www-data
  become: yes
  shell: |
    php occ maintenance:install --database mysql --database-host 10.3.0.100 --database-
name nextcloud --database-port 3306 --database-user nc_user --database-pass 'dbpass' --
admin-user admin --admin-pass 'ampass' --data-dir /var/www/nextcloud/data
  args:
    chdir: /var/www/nextcloud/
    creates: /var/www/nextcloud/config/config.php

- name: add domain to trusted domains
  become_user: www-data
  become: yes
  lineinfile:
    path: /var/www/nextcloud/config/config.php
    insertafter: .*localhost.*
    line: "    1 => 'bytecluster0002.bytespeicher.org'"
    firstmatch: yes

- name: copy nginx config
  copy:
    src: ./conf/nextcloud.conf
    dest: /etc/nginx/sites-available/
    owner: root
    group: root
    mode: '0744'

- name: Create a symbolic link
  file:
    src: /etc/nginx/sites-available/nextcloud.conf
    dest: /etc/nginx/sites-enabled/nextcloud.conf
    owner: root
    group: root
    state: link

- name: load php-fpm
  systemd:
    state: restarted
    name: php7.3-fpm
```

```
- name: Restart nginx
  systemd:
    state: restarted
    daemon_reload: yes
    name: nginx
```

## Notizen

- Ansible script lädt momentan das .zip nicht herunter. Fehler unbekannt.
- Sonderzeichen in Passwörtern führen zu Fehlern. Genaue Escape-Sequenz noch unbekannt.

## Nginx Config

```
upstream php-handler {
    #server 127.0.0.1:9000;
    server unix:/var/run/php/php7.3-fpm.sock;
}

server {
    listen 8087;
    listen [::]:8087;
    server_name cloud.technikkultur-erfurt.de;

    # Enforce HTTPS
    #return 301 https://$server_name$request_uri;
#}

#server {
#    listen 443      ssl http2;
#    listen [::]:443 ssl http2;
#    server_name cloud.technikkultur-erfurt.de;

# Use Mozilla's guidelines for SSL/TLS settings
# https://mozilla.github.io/server-side-tls/ssl-config-generator/
# ssl_certificate      /etc/ssl/nginx/cloud.example.com.crt;
# ssl_certificate_key  /etc/ssl/nginx/cloud.example.com.key;

# HSTS settings
# WARNING: Only add the preload option once you read about
# the consequences in https://hstspreload.org/. This option
# will add the domain to a hardcoded list that is shipped
# in all major browsers and getting removed from this list
# could take several months.
#add_header Strict-Transport-Security "max-age=15768000; includeSubDomains; preload;"
always;

# set max upload size
client_max_body_size 512M;
fastcgi_buffers 64 4K;

# Enable gzip but do not remove ETag headers
gzip on;
gzip_vary on;
gzip_comp_level 4;
gzip_min_length 256;
gzip_proxied expired no-cache no-store private no_last_modified no_etag auth;
gzip_types application/atom+xml application/javascript application/json
application/ld+json application/manifest+json application/rss+xml application/vnd.geo+json
application/vnd.ms-fontobject application/x-font-ttf application/x-web-app-manifest+json
```

```
application/xhtml+xml application/xml font/opentype image/bmp image/svg+xml image/x-icon
text/cache-manifest text/css text/plain text/vcard text/vnd.rim.location.xloc text/vtt
text/x-component text/x-cross-domain-policy;
```

```
# Pagespeed is not supported by Nextcloud, so if your server is built
# with the `ngx_pagespeed` module, uncomment this line to disable it.
#pagespeed off;
```

```
# HTTP response headers borrowed from Nextcloud `.htaccess`
add_header Referrer-Policy "no-referrer" always;
add_header X-Content-Type-Options "nosniff" always;
add_header X-Download-Options "noopen" always;
add_header X-Frame-Options "SAMEORIGIN" always;
add_header X-Permitted-Cross-Domain-Policies "none" always;
add_header X-Robots-Tag "none" always;
add_header X-XSS-Protection "1; mode=block" always;
```

```
# Remove X-Powered-By, which is an information leak
fastcgi_hide_header X-Powered-By;
```

```
# Path to the root of your installation
root /var/www/nextcloud;
```

```
# Specify how to handle directories -- specifying `/index.php$request_uri`
# here as the fallback means that Nginx always exhibits the desired behaviour
# when a client requests a path that corresponds to a directory that exists
# on the server. In particular, if that directory contains an index.php file,
# that file is correctly served; if it doesn't, then the request is passed to
# the front-end controller. This consistent behaviour means that we don't need
# to specify custom rules for certain paths (e.g. images and other assets,
# `/updater`, `/ocm-provider`, `/ocs-provider`), and thus
# `try_files $uri $uri/ /index.php$request_uri`
# always provides the desired behaviour.
index index.php index.html /index.php$request_uri;
```

```
# Default Cache-Control policy
expires 1m;
```

```
# Rule borrowed from `.htaccess` to handle Microsoft DAV clients
location = / {
    if ( $http_user_agent ~ ^DavClnt ) {
        return 302 /remote.php/webdav/$is_args$args;
    }
}
```

```
location = /robots.txt {
    allow all;
    log_not_found off;
    access_log off;
}
```

```
# Make a regex exception for `/.well-known` so that clients can still
# access it despite the existence of the regex rule
# `location ~ /\.(|autotest|...)` which would otherwise handle requests
# for `/.well-known`.
```

```
location ^~ /.well-known {
    # The following 6 rules are borrowed from `.htaccess`

    rewrite ^/\.(well-known)/host-meta\.json /public.php?service=host-meta-json last;
    rewrite ^/\.(well-known)/host-meta /public.php?service=host-meta last;
    rewrite ^/\.(well-known)/webfinger /public.php?service=webfinger last;
```

```

rewrite ^/\.well-known/nodeinfo          /public.php?service=nodeinfo          last;

location = /.well-known/carddav          { return 301 /remote.php/dav/; }
location = /.well-known/calDav          { return 301 /remote.php/dav/; }

try_files $uri $uri/ =404;
}

# Rules borrowed from `.htaccess` to hide certain paths from clients
location ~ ^/(?:(build|tests|config|lib|3rdparty|templates|data)?(?:$|/)) { return 404; }
location ~ ^/(?!(?:\.|autotest|occ|issue|indie|db_|console)) { return 404; }

# Ensure this block, which passes PHP files to the PHP process, is above the blocks
# which handle static assets (as seen below). If this block is not declared first,
# then Nginx will encounter an infinite rewriting loop when it prepends `/index.php`
# to the URI, resulting in a HTTP 500 error response.
location ~ \.php(?:$|/) {
    fastcgi_split_path_info ^(.+?\.php)(/.*)$;
    set $path_info $fastcgi_path_info;

    try_files $fastcgi_script_name =404;

    include fastcgi_params;
    fastcgi_param SCRIPT_FILENAME $document_root$fastcgi_script_name;
    fastcgi_param PATH_INFO $path_info;
    fastcgi_param HTTPS on;

    fastcgi_param modHeadersAvailable true;          # Avoid sending the security headers
twice    fastcgi_param front_controller_active true;    # Enable pretty urls
    fastcgi_pass php-handler;

    fastcgi_intercept_errors on;
    fastcgi_request_buffering off;
}

location ~ \.(?:css|js|svg|gif)$ {
    try_files $uri /index.php$request_uri;
    expires 6M;          # Cache-Control policy borrowed from `.htaccess`
    access_log off;     # Optional: Don't log access to assets
}

location ~ \.woff2?$ {
    try_files $uri /index.php$request_uri;
    expires 7d;          # Cache-Control policy borrowed from `.htaccess`
    access_log off;     # Optional: Don't log access to assets
}

location / {
    try_files $uri $uri/ /index.php$request_uri;
}
}

```

**Dauerhafter Link zu diesem Dokument:**

<https://wiki.technikkultur-erfurt.de/dienste:bytecluster0002:nextcloud?rev=1601931029>

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