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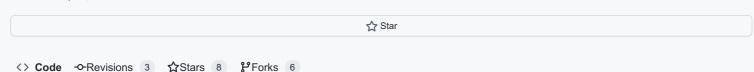
ismailyenigul / **nextcloud-traefik2-multi-network-deployment.yml**

Last active Sep 15, 2021

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nextcloud-traefik2-multi-network-deployment

<> **nextcloud-traefik2-multi-network-deployment.yml**

```
1    ## Trafik Multi Network Deployment
2
3    1. Create Traefik network
4
5    ` # docker network  create --driver=bridge --attachable --internal=false traefik `
6
7    2. Edit `traefik2/docker-compose.yml`
8       - Change ACME email
9       - Change --providers.docker.network=traefik value if you created different network then `traefik`
10
11   3. Deploy traefik
12
13    `docker-compose -f traefik2/docker-compose.yml up -d`
14
15   4. Edit `nextcloud/docker-compose.yml`
16      - Change traefik.http.routers.nextcloud.rule Host
17      - Remove `traefik.http.middlewares.nextcloud.headers.customFrameOptionsValue` and `contentSecurityPolicy`
18        if you dont need to iframe access from your external website
19      - Change PostgreSQL environments
20      - Edit `TRUSTED_PROXIES` with your traefik network address
21   5. Deploy nextcloud
22
23    `docker-compose -f nextcloud/docker-compose.yml up -d`
24
25
26    $ cat traefik2/docker-compose.yml
27
28     # Create  network first
29    # docker network  create --driver=bridge --attachable --internal=false traefik
30    #NOTES:
31    #1. certificatesresolvers.myresolver.acme.email=myemail@gmail.com
32    # cat docker-compose.yml
33
34    version: '3.3'
35
36    volumes:
37      letsencrypt:
38        driver: local
39
40
41    services:
42
43      traefik:
44        image: traefik:v2.2
45        container_name: traefik
46        restart: always
47        command:
48          - "--log.level=DEBUG"
49          - "--api.insecure=true"
50          - "--providers.docker=true"
51          - "--providers.docker.network=traefik"
52          - "--providers.docker.exposedbydefault=true"
53          - "--entrypoints.web.address=:80"
```

```yaml
54        - "--entrypoints.websecure.address=:443"
55        - "--entrypoints.web.http.redirections.entryPoint.to=websecure"
56        - "--entrypoints.web.http.redirections.entryPoint.scheme=https"
57        - "--certificatesresolvers.myresolver.acme.httpchallenge=true"
58        - "--certificatesresolvers.myresolver.acme.httpchallenge.entrypoint=web"
59        - "--certificatesresolvers.myresolver.acme.email=myemail@gmail.com"
60        - "--certificatesresolvers.myresolver.acme.storage=/letsencrypt/acme.json"
61      ports:
62        - 80:80
63        - 443:443
64      networks:
65        - default
66      volumes:
67        - /var/run/docker.sock:/var/run/docker.sock
68        - letsencrypt:/letsencrypt
69
70    networks:
71      default:
72        external:
73          name: traefik
74
75
76    $ cat nextcloud/docker-compose.yml
77
78    # Create netxcloud network first
79    # docker network create nextcloud
80    #NOTES:
81    #1. certificatesresolvers.myresolver.acme.email=myemail@gmail.com
82    #2. TRUSTED_PROXIES values based on your 'traefik docker network run docker network inspect traefik' to see the network
83    #3. remove traefik.http.middlewares.nextcloud.headers.contentSecurityPolicy and
84    #traefik.http.middlewares.nextcloud.headers.customFrameOptionsValue if you don't want to allow iframe your domain
85
86
87    version: '3.3'
88
89    volumes:
90      nextcloud-www:
91        driver: local
92      nextcloud-db:
93        driver: local
94      redis:
95        driver: local
96
97
98    services:
99
100     db:
101       restart: always
102       image: postgres:11
103       networks:
104         - nextcloud
105       environment:
106       - POSTGRES_USER=nextcloud
107       - POSTGRES_PASSWORD=password
108       - POSTGRES_DB=nextcloud
109       volumes:
110       - nextcloud-db:/var/lib/postgresql/data
111     redis:
112       image: redis:latest
113       restart: always
114       networks:
115         - nextcloud
116       volumes:
117         - redis:/var/lib/redis
118
119     nextcloud:
120       image: nextcloud:latest
121       restart: always
122       networks:
123         - default
124         - nextcloud
```

```
125    depends_on:
126      - redis
127      - db
128    labels:
129      - traefik.http.routers.nextcloud.middlewares=nextcloud,nextcloud_redirect
130      - traefik.http.routers.nextcloud.tls.certresolver=myresolver
131      - traefik.http.routers.nextcloud.rule=Host(`nextcloud.mydomain.com`)
132      - traefik.http.middlewares.nextcloud.headers.customFrameOptionsValue=ALLOW-FROM https://mydomain.com
133      - traefik.http.middlewares.nextcloud.headers.contentSecurityPolicy=frame-ancestors 'self' mydomain.com *.mydomain.net
134      - traefik.http.middlewares.nextcloud.headers.stsSeconds=155520011
135      - traefik.http.middlewares.nextcloud.headers.stsIncludeSubdomains=true
136      - traefik.http.middlewares.nextcloud.headers.stsPreload=true
137      - traefik.http.middlewares.nextcloud_redirect.redirectregex.regex=/.well-known/(card|cal)dav
138      - traefik.http.middlewares.nextcloud_redirect.redirectregex.replacement=/remote.php/dav/
139    environment:
140      - POSTGRES_DB=nextcloud
141      - POSTGRES_USER=nextcloud
142      - POSTGRES_PASSWORD=password
143      - POSTGRES_HOST=db
144      - NEXTCLOUD_ADMIN_USER=admin
145      - NEXTCLOUD_ADMIN_PASSWORD=adminpass
146      - REDIS_HOST=redis
147      - NEXTCLOUD_TRUSTED_DOMAINS=nextcloud.mydomain.com
148      - TRUSTED_PROXIES=172.19.0.0/16
149    volumes:
150      - nextcloud-www:/var/www/html
151
152  networks:
153    default:
154      external:
155        name: traefik
156
157    nextcloud:
158      internal: true
159
160
```

---

encryptblockr commented Jun 20, 2020 • edited ▾

where did you get the documentation for using these labels?
i can't find documentation on using these labels anywhere on the traefik website

```
labels:
  - traefik.http.routers.nextcloud.middlewares=nextcloud,nextcloud_redirect
  - traefik.http.routers.nextcloud.tls.certresolver=myresolver
  - traefik.http.routers.nextcloud.rule=Host(`nextcloud.mydomain.com`)
  - traefik.http.middlewares.nextcloud.headers.customFrameOptionsValue=ALLOW-FROM https://mydomain.com
  - traefik.http.middlewares.nextcloud.headers.contentSecurityPolicy=frame-ancestors 'self' mydomain.com *.mydomain.net
  - traefik.http.middlewares.nextcloud.headers.stsSeconds=155520011
  - traefik.http.middlewares.nextcloud.headers.stsIncludeSubdomains=true
  - traefik.http.middlewares.nextcloud.headers.stsPreload=true
  - traefik.http.middlewares.nextcloud_redirect.redirectregex.regex=/.well-known/(card|cal)dav
  - traefik.http.middlewares.nextcloud_redirect.redirectregex.replacement=/remote.php/dav/
```

i am looking for the v2 replacement for targeting network

```
labels:
  - "traefik.docker.network=traefiknetwork"
```

---

ismailyenigul commented Jun 20, 2020

Hi **@encryptblockr**

labels are based on two parts.

1. label type (`routers` , `middlewares`) which you can see at https://docs.traefik.io/middlewares/overview/ and https://docs.traefik.io/routing/routers/
2. routers and middleware names which `nextcloud, nexcloud_redirect` they are custom name you can define. and it can be any value you want.
   If you search for something like `traefik.http.middlewares.nextcloud` in traefik docs you will not see anything.

and

```
- "traefik.docker.network=traefiknetwork"
```

it is the network you created for traefik container. which I created myself (check item 1 above)

1. Create Traefik network
    `# docker network create --driver=bridge --attachable --internal=false traefik`

If you want to use same network for all containers check this https://gist.github.com/ismailyenigul/f03b4f5f15e5e61ac5b80905c5d2890a

---

encryptblockr commented Jun 20, 2020 • edited ▾

i dont see anything with labels on this page https://docs.traefik.io/routing/routers/

the network is a network i created yes and usually in v1 you just declare it the way i have it above
just basic and i use it to separate my containers and allow communication within certain networks
all am asking is how to convert to v2.2, dont want to go over reason or why for the network

```
docker network create traefiknetwork
```

---

ismailyenigul commented Jun 20, 2020

It is here
https://docs.traefik.io/routing/providers/docker/
traefik.docker.network

```
- "traefik.docker.network=mynetwork"
```

Overrides the default docker network to use for connections to the container.

If you run traefik in different docker-compose file you can define the network in docker-compose file without creating it manually. I created it manually
to make it persistent and it will not be deleted when you run `docker-compose down`

---

encryptblockr commented Jun 20, 2020

there you go..perfect..surprised it is exact as v1...works for what i was trying to do

thanks!

---

das0088 commented Jun 25, 2020

Hello thanks for writing this up. This is exactly what i was looking for so that I can use Traefik for other containers also and not just nextcloud.
everything went smoothly but i am getting "404 page not found" when I am trying to set up next cloud in the browser.
I am getting this log for nextcloud from portainer
`

Configuring Redis as session handler

AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 172.23.0.4. Set the 'ServerName' directive globally to
suppress this message

AH00558: apache2: Could not reliably determine the server's fully qualified domain name, using 172.23.0.4. Set the 'ServerName' directive globally to
suppress this message

[Thu Jun 25 03:12:05.835939 2020] [mpm_prefork:notice] [pid 1] AH00163: Apache/2.4.38 (Debian) PHP/7.4.7 configured -- resuming normal
operations
[Thu Jun 25 03:12:05.836109 2020] [core:notice] [pid 1] AH00094: Command line: 'apache2 -D FOREGROUND'

```
    `
```

only thing I changed is the - POSTGRES_DB=nextcloud to default or else it was showing errors
other container db and redis saying both says ready to accept connections.
I am on raspberry pi 4 running OMV5 with dockers

any help will be appreciated

ismailyenigul commented Jun 25, 2020

404 means that treafik can't map your requested hostname to the nextcloud container.
you can check traefik container logs. Above apache logs is not an issue.
Ensure that Host value `- traefik.http.routers.nextcloud.rule=Host(` nextcloud.mydomain.com `)` is same as your domain name.

---

wHyEt commented Jul 27, 2020

Hi, thanks for sharing your compose files. I have a question I am trying to get nextcloud working with:
"traefik.http.routers.nextcloud-secure.rule=Host(` my.example.net `)" && PathPrefix(` /nx `)"

and somehow I can't get it working I allways get redirection errors have you ever tryed a solution like that? with traefik 1 it worked like a charm but somehow I can't get it running with traefik 2.

Greetings and thanks
wHyEt

---

ismailyenigul commented Jul 27, 2020

Hi **@wHyEt**
Please check https://docs.traefik.io/migration/v1-to-v2/#frontends-and-backends-are-dead-long-live-routers-middlewares-and-services

```
- "traefik.http.routers.router0.rule=Host(`test.localhost`) && PathPrefix(`/test`)"
```

---

dmontull-rgbco… commented Aug 11, 2020 • edited ▾

Hi **@ismailyenigul**
thanks a lot for your files, help me so much.

I have one question, when deploy nextcloud file, this created another internal network
`b81dd7d84cf0 nextcloud bridge local 1265ff7689c2 nextcloud_nextcloud bridge local`
Do you know what happened?
I copy/paste your code, change domains and create network nextcloud that you say for persistent network. I want to add another service, in future.

thx