

matrix synapse

vr:

- 172.30.18.45: synapse, riot, dimension server
- 172.30.18.54: jitsi

galileo:

- matrix.csgalileo.org: synapse, riot, dimension server
- jitsi: meet.csgalileo.org (bilanciamento tra 1.meet.csgalileo.org e 2.meet.csgalileo.org)

synapse (matrix)

- configurazione: /etc/matrix-synapse
- service: matrix-synapse.service

aggiornamento

normale apt

install

```
apt install nginx
```

installare da repository

```
wget -q0 - https://matrix.org/packages/debian/repo-key.asc | sudo apt-key  
add -  
sudo add-apt-repository https://matrix.org/packages/debian/  
  
apt install matrix-synapse-py3  
apt install python-matrix-synapse-ldap3
```

a questo punto synapse si trova nel virtualenv /opt/venvs/matrix-synapse/

nextcloud auth

python package synapse_g creato nella cartella /opt/venvs/synapse_g e utilizzato da /etc/matrix-synapse/homeserver.yaml

```
cd /opt/venvs/synapse_g  
  
/opt/venvs/synapse_g
```

```
├─ setup.py
├─ synapse_g
│   └─ __init__.py
│       └─ nextcloud_provider.py
```

setup con db postgresql

Installare postgresql.

```
apt install postgresql postgresql-contrib
```

Creare un utente e un database per synapse.

```
su - postgres
createuser --pwprompt synapse_admin

psql
CREATE DATABASE synapse
ENCODING 'UTF8'
LC_COLLATE='C'
LC_CTYPE='C'
template=template0
OWNER synapse_admin;
```

Installare i pacchetti per synapse e postgres

```
apt install libpq5
/opt/venvs/matrix-synapse/bin/pip install matrix-synapse[postgres]
```

Importante: prima di effettuare il porting mettere il nome del server nel file di configurazione "homeserver.yaml" alla voce server_name (Es: server_name: "matrix.csgalileo.org") altrimenti lo script va in errore Il servername si trova in /etc/matrix-synapse/conf.d/server_name.yaml

Preparare le configurazioni

```
cp /etc/matrix-synapse/homeserver.yaml /etc/matrix-synapse/homeserver-postgres.yaml
cp /etc/matrix-synapse/homeserver.yaml /etc/matrix-synapse/homeserver-old-sqlite.yaml

vim /etc/matrix-synapse/homeserver-postgres.yaml
database:
  name: psycopg2
  args:
    user: "synapse_admin"
    password: "la password del db per synapse_admin"
    database: synapse
    host: 127.0.0.1
    cp_min: 5
```

```
cp_max: 10
```

Porting

```
systemctl stop  matrix-synapse

synapse_port_db --sqlite-database /var/lib/matrix-synapse/homeserver.db \
    --postgres-config /etc/matrix-synapse/homeserver-postgres.yaml
mv /etc/matrix-synapse/homeserver-postgres.yaml /etc/matrix-
synapse/homeserver.yaml

systemctl start  matrix-synapse
```

riot

ambiente di sviluppo creato da <https://github.com/vector-im/riot-web#setting-up-a-dev-environment>

aggiornamento

```
cd /lab/riot
source lib/bin/activate

cd matrix-react-sdk
git co develop
git pull
git co verona
git merge develop
... risolvere i conflitti
yarn install
cd ..

cd matrix-js-sdk
git pull
yarn install

cd riot-web
git co develop
git pull
git co verona
git merge develop
... risolvere i conflitti
yarn install
```

test in locale

```
yarn start
```

deploy galileo

```
cd /lab/riot  
make deploy
```

deploy verona

```
cd /var/www  
cp -a riot-dev riot-backup/
```

```
cd /lab/riot  
make deployvr
```

matrix-dimension

update

```
su - dimension  
cd matrix-dimension  
git pull  
npm install
```

```
systemctl restart matrix-dimension.service
```

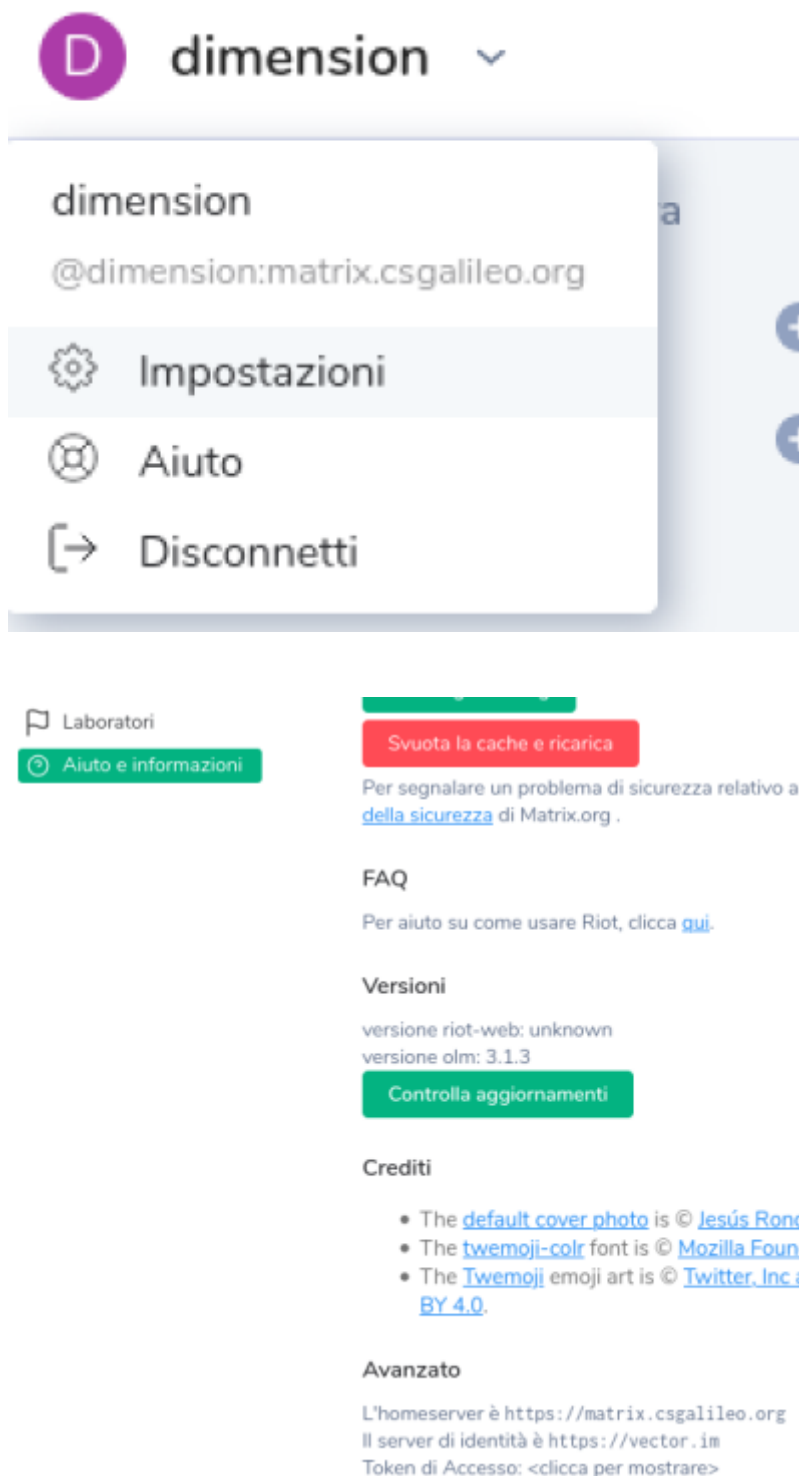
after 1 minute from start check with browser <https://dimension.comune.verona.it>

install

in synapse server create local user called dimension for matrix-dimension binding

```
/opt/venvs/matrix-synapse/bin/register_new_matrix_user -c /etc/matrix-  
synapse/homeserver.yaml http://localhost:8008  
New user localpart [root]: dimension  
Password:  
Confirm password:  
Make admin [no]:  
Sending registration request...  
Success!
```

run browser in incognito mode and login with dimension credentials in <https://matrix.csgalileo.org> and copy token



as user root

```
apt install g++ gcc sqlite3 make
```

as user dimension

```
nodeenv -n 10.19.0 venv  
. venv/bin/activate  
  
unset NODE_ENV
```

```
# Download dimension
git clone https://github.com/turt2live/matrix-dimension.git
cd matrix-dimension
```

```
# Install dependencies
npm install
```

```
# Build it
npm run build
```

```
cp config/default.yaml config/production.yaml
```

get token at https://t2bot.io/docs/access_tokens

verify token

```
TOKEN=xxxxxxx
curl -H "Authorization: Bearer $TOKEN"
https://matrix.csgalileo.org/_matrix/client/r0/account/whoami
```

edit config/production.yaml

```
homeserver:
  name: "csgalileo.org"
  clientServerUrl: "https://matrix.csgalileo.org"
  mediaUrl: "https://t2bot.io"
  accessToken: "....."
admins:
  - "@stefano.scipioni:matrix.csgalileo.org"
dimension:
  publicUrl: "https://dimension2.csgalileo.org/"
```

```
NODE_ENV=production npm run start:app
```

systemd service

```
[Service]
ExecStart=/bin/bash -c 'source /home/dimension/venv/bin/activate;
/home/dimension/venv/bin/npm run start:app'

#ExecStart=/home/dimension/venv/bin/npm run start:app
WorkingDirectory=/home/dimension/matrix-dimension
Environment=NODE_ENV=production

# Restart timing
Restart=always
RestartSec=60

# Output to syslog
StandardOutput=syslog
```

```
StandardError=syslog
SyslogIdentifier=matrix-dimension

# User & group to run service as
User=dimension

[Install]
WantedBy=default.target
```

From:

<https://wiki.csgalileo.org/> - **Galileo Labs**

Permanent link:

<https://wiki.csgalileo.org/projects/matrix/riot?rev=1588399386>

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