

# hack4glarus-2018-winter - Task #6170

## Setup a matrix server

11/30/2018 10:49 PM - Jin-Guk Kwon

<b>Status:</b>	Closed	<b>Start date:</b>	12/01/2018
<b>Priority:</b>	Normal	<b>Due date:</b>	12/02/2018
<b>Assignee:</b>	Jin-Guk Kwon	<b>% Done:</b>	100%
<b>Category:</b>		<b>Estimated time:</b>	42.00 hours
<b>Target version:</b>			
<b>PM Check date:</b>			
<b>Description</b>			
setup a matrix server on VM			
jingung			

### History

#### #1 - 11/30/2018 10:50 PM - Jin-Guk Kwon

- Description updated

- Assignee set to Jin-Guk Kwon

#### #2 - 11/30/2018 11:04 PM - Jin-Guk Kwon

matrix.lab.ungleich.ch 2a0a:e5c0:2:12:400:f0ff:fea9:c3f6

#### #3 - 12/01/2018 12:15 AM - Jin-Guk Kwon

```
apt-get update
apt-get install wget
wget -O- https://matrix.org/packages/debian/repo-key.asc | sudo apt-key add -
add-apt-repository https://matrix.org/packages/debian/
apt-get install matrix-synapse -y
->server name - type the matrix domain name
-->for the anonymous data report, choose 'No'
systemctl start matrix-synapse
systemctl enable matrix-synapse
cat /dev/urandom | tr -dc 'a-zA-Z0-9' | fold -w 32 | head -n 1
vi /etc/matrix-synapse/homeserver.yaml
```

```
port: 8448
  bind_addresses:
    - ':::'
    - '0.0.0.0'
port: 8008
  bind_addresses: [':::1', '127.0.0.1']
enable_registration: False
registration_shared_secret: "copy from generated code"
```

```
systemctl restart matrix-synapse
apt-get install letsencrypt -y
certbot certonly --rsa-key-size 2048 --standalone --agree-tos --no-eff-email --email [e-mail] -d [server_domain_name]
apt-get install nginx -y
systemctl start nginx
systemctl enable nginx
vi /etc/nginx/sites-available/matrix
```

```
server {
    listen 80;
    server_name matrix.hakase-labs.io;
    return 301 https://$server_name$request_uri;
}
```

```
server {
    listen 443 ssl;
```

```

listen [::]:443 ssl;
server_name [domain_name];

ssl_certificate /etc/letsencrypt/live/[domain_name]/fullchain.pem;
ssl_certificate_key /etc/letsencrypt/live/[domain_name]/privkey.pem;

# If you don't wanna serve a site, comment this out
root /var/www/html;
index index.html index.htm;

location /_matrix {
    proxy_pass http://localhost:8008;
    proxy_set_header X-Forwarded-For $remote_addr;
}
}

```

```

root@ubuntu:/etc/nginx/sites-available# ln -s /etc/nginx/sites-available/matrix /etc/nginx/sites-enabled/
root@ubuntu:/etc/nginx/sites-enabled# nginx -t
nginx: the configuration file /etc/nginx/nginx.conf syntax is ok
nginx: configuration file /etc/nginx/nginx.conf test is successful
root@ubuntu:/etc/nginx/sites-enabled# systemctl restart nginx
root@ubuntu:/etc/nginx/sites-enabled# ufw allow ssh
Rules updated
Rules updated (v6)
root@ubuntu:/etc/nginx/sites-enabled# ufw allow http
Rules updated
Rules updated (v6)
root@ubuntu:/etc/nginx/sites-enabled# ufw allow https
Rules updated
Rules updated (v6)
root@ubuntu:/etc/nginx/sites-enabled# ufw enable
Command may disrupt existing ssh connections. Proceed with operation (y|n)? y
Firewall is active and enabled on system startup
root@ubuntu:/etc/nginx/sites-enabled# ufw status
Status: active

```

To	Action	From
--	-----	----
22/tcp	ALLOW	Anywhere
80/tcp	ALLOW	Anywhere
443/tcp	ALLOW	Anywhere
22/tcp (v6)	ALLOW	Anywhere (v6)
80/tcp (v6)	ALLOW	Anywhere (v6)
443/tcp (v6)	ALLOW	Anywhere (v6)

```

root@ubuntu:/etc/nginx/sites-enabled# register_new_matrix_user -c /etc/matrix-synapse/homeserver.yaml https://
localhost:8448
New user localpart [root]: ungleich
Password:
Confirm password:
Make admin [no]: yes
Sending registration request...
Success!
root@ubuntu:/etc/nginx/sites-enabled#

```

#### #4 - 12/02/2018 12:07 PM - Jin-Guk Kwon

- File matrix.pptx added

#### #5 - 12/02/2018 12:31 PM - Jin-Guk Kwon

- Status changed from New to Resolved

- % Done changed from 0 to 100

#### #6 - 12/03/2018 02:42 PM - Jin-Guk Kwon

- Status changed from Resolved to Closed

## Files

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matrix.pptx	337 KB	12/02/2018	Jin-Guk Kwon
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