How to install Docsbox

Installation & configuration:

When installing Debian in the packages selection select only the OpenSSH server

Add the local user docsbox

All the following commands have to be executed as root.

Packages:

Once a basic Debian installation is performed run the following commands:

```
apt update
```

```
apt install openssh-client git zip unzip gzip bzip2 htop vim tar xz-utils
wget curl nginx redis-server libffi-dev libmagic-dev libmagickwand-dev
libreoffice libreofficekit-dev python3-dev python3-pip python3-venv
```

Python:

How to get the python version for the next steps:

```
python3 -c 'import sys; print(str(sys.version_info[0])
+"."+str(sys.version_info[1]))'
```

Docsbox:

```
python3 -m venv /opt/docsbox

chown -R docsbox:docsbox /opt/docsbox

su – docsbox

source /opt/docsbox/bin/activate

cd /opt/docsbox/lib/python<version>/site-packages

git clone https://github.com/FH-Complete/FHC-Docsbox.git docsbox

pip install -r ./docsbox/requirements.txt

chown docsbox:www-data docsbox/media/

chmod 775 docsbox/media/

cd

ln -s /opt/docsbox/lib/python<version>/site-packages/docsbox docsbox
```

Nginx:

Copy the following content into */etc/nginx/sites-available/docsbox:*

```
server {
	listen 443 ssl;
	server_name docsbox.dev.technikum-wien.at;

	# This section is important to avoid that anybody can access
	# the generated documentes in the /media directory
	allow 172.31.253.57; # old c3p0
	allow 172.31.253.54; # new c3p0
	allow 2001:67c:1790:6453::38; # old c3p0
	allow 2001:67c:1790:6453::35; # new c3p0
	deny all;

	client_max_body_size 10m;
	charset utf-8;

	ssl_certificate /etc/ssl/certs/bundle-dev.tw.at.pem;
	ssl_certificate_key /etc/ssl/private/private-dev.tw.at.key;

	location /media {
		alias
/opt/docsbox/lib/python<version>/site-packages/docsbox/media;
	}
	location / {
		proxy_pass http://127.0.0.1:8000;
		proxy_set_header Host $host;
		proxy_set_header X-Real-IP $remote_addr;
		proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
	}

	access_log /var/log/nginx/access-docsbox.log;
	error_log /var/log/nginx/error-docsbox.log error;
}
```

Run the following commands:

```
rm /etc/nginx/sites-enabled/default

ln -s /etc/nginx/sites-available/ /etc/nginx/sites-enabled/docsbox

systemctl restart nginx.service

htpasswd -c /etc/nginx/.htpasswd docsboxapi
```

And provide a password

Systemd:

Create the following services:

/etc/systemd/system/docsbox.service:

```
[Unit]
Description=Docsbox document converter
After=network.target

[Service]
User=docsbox
Group=docsbox
Restart=always
WorkingDirectory=/opt/docsbox/lib/python<version>/site-packages
ExecStart=/opt/docsbox/bin/python3 /opt/docsbox/bin/gunicorn -b
127.0.0.1:8000 -w 4 docsbox:app

[Install]
WantedBy=multi-user.target
```

/etc/systemd/system/rqscheduler.service:

```
[Unit]
Description=RQ Scheduler
After=network.target

[Service]
User=docsbox
Group=docsbox
Restart=always
WorkingDirectory=/opt/docsbox/lib/python<version>/site-packages
ExecStart=/opt/docsbox/bin/python3 /opt/docsbox/bin/rqscheduler -H
127.0.0.1 -p 6379 -d 0

[Install]
WantedBy=multi-user.target
```

/etc/systemd/system/rqworker.service:

```
[Unit]
Description=RQ Worker
After=network.target

[Service]
User=docsbox
Group=docsbox
Restart=always
WorkingDirectory=/opt/docsbox/lib/python<version>/site-packages
ExecStart=/opt/docsbox/bin/python3 /opt/docsbox/bin/rq worker -c
docsbox.settings
```

```
[Install]
WantedBy=multi-user.target
```

```
systemctl enable docsbox.service
systemctl enable rqscheduler.service
systemctl enable rqworker.service
```

Logs

Create the file */etc/logrotate.d/docsbox* with the following content:

```
/opt/docsbox/lib/python<version>/site-packages/docsbox/logs/docsbox.log {
     weekly
     copytruncate
     missingok
     rotate 12
     compress
     notifempty
     delaycompress
}
```

Test:

Create a the file *options.json* with the following content:

```
{"formats": ["<output format>"]}
```

Run the following commands:

```
curl -i -F "file=@example.<input format>" -F "options=<options.json"
https://docsbox.dev.technikum-wien.at/api/v1/
```

```
curl https://docsbox.dev.technikum-wien.at/api/v1/<UUID from the first call
response>
```

If the status is finished run the following command, otherwire retry in a while

```
curl -O https://docsbox.dev.technikum-wien.at/media/<UUID from the first
call response>.zip
```