

# Turtl API Server and Client Installation CentOS 7

## Turtl API

### Clone and Configure Turtl API

1. Create a user for turtl API: `sudo useradd turtl`
2. Switch user to `turtl`: `sudo su turtl`
3. Change directory to `turtl`'s home: `cd ~`
4. Install [Clozure CL](#)
5. Install [RethinkDB](#) and create an instance for Turtl API
6. Install `libuv`: `sudo yum install libuv`
7. Clone Turtl repo: `git clone https://github.com/turtl/api.git`
8. Copy Turtl API config: `cp config/config.default.lisp config/lisp`
9. Edit and configure `config/config.lisp`, make sure to update the following parameters:

```
(defvar *local-upload* "<local upload directory>")  
(defvar *local-upload-url* "<upload url>")
```

## Setup Up Service

Create a service file at `/usr/lib/systemd/system/turtl.service` with the following entry:

```
[Unit]  
Description=Turtl API Server  
  
[Service]  
User=turtl  
Group=turtl  
ExecStart=/usr/local/bin/ccl64 --load /home/turtl/api/start.lisp
```

```
KillMode=process
```

```
[Install]
```

```
WantedBy=multi-user.target
```

Start and enable the service:

```
sudo systemctl start turtl  
sudo systemctl enable turtl
```

## (OPTIONAL) Configure Reverse Proxy in Apache

Create `httpd` virtual host configuration `/etc/httpd/conf.d/turtl.conf` with the following content, make sure to change `<turtl domain>` to your own domain name:

```
<VirtualHost *:80>  
    #Server name configuration  
    ServerName <turtl domain>  
    ServerAdmin webmaster@<turtl domain>  
  
    #Proxy configuration  
    ProxyPreserveHost on  
    ProxyRequests off  
    ProxyPass / https://wiki.twcloud.tech:8181/  
    ProxyPassReverse / https://wiki.twcloud.tech:8181/  
  
    #Logging configuration  
    ErrorLog /var/log/httpd/turtl.err  
    LogLevel warn  
</VirtualHost>
```

## (OPTIONAL) Restrict User Registration

Add the following lines in your Turtl API Virtual Hosts configuration:

```
#Restrict Registration  
<LocationMatch "^/users[/]?$">
```

```
AuthType Basic
AuthName "Restricted"
AuthUserFile /home/turtl/.htpasswd
Require valid-user

</LocationMatch>
```

Then generate a `.htpasswd` password file in `/home/turtl`: `sudo htpasswd -c /etc/apache2/.htpasswd <whatever username>`. Make sure that it's in the right permission and owner: `chmod 640 /home/turtl/.htpasswd && chown turtl:apache /home/turtl/.htpasswd`

# Installing JS Client

1. Clone `turtl/js` repo to webserver webroot: `sudo mkdir /var/www/turtl && cd /var/www/turtl && sudo git clone https://github.com/turtl/js.git .`
2. Install NodeJS dependencies: `npm install`
3. Copy default config: `cp config/config.js.default config.js`
4. Edit `config/config.js`
5. Update owner and group: `chown -R apache:apache .`
6. Generate assets: `make`

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