

Setup instructions for Solid CSS

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Disclaimer: I am not a node expert. These are my personal settings/notes. Use at your own risk.

Testing

I assume you have a Linux server somewhere. For a production system you need:

- Node ^12.19.0, ^14.15.0, or ^16.13.0
 - I use [nvm](#) to get the correct version of Node on my machines
 - `nvm install 16.13.0`
- Npm
- Apache
- Some sysadmin skills to set it up

Install the CSS server on your machine

```
npm install -g @solid/community-server
```

Do a test run serving files from a directory of choice:

```
$ mkdir test
$ cd test
$ node --version
v16.13.0
$ community-solid-server -c @css:config/file.json
```

If you want to make changes to the default config file you can find the source here:

<https://github.com/CommunitySolidServer/CommunitySolidServer/blob/main/config/file.json>

Run the server with a custom config file:

```
community-solid-server -c ./file.json
```

Register new accounts

If you want to register a new user go the page

<http://localhost:3000/idp/register/>

Configuration

Some things you might want to change in your file.json.

Disable registration of new users

Remove this line in the file.json:

```
"css:config/identity/registration/enabled.json",
```

Allow for big uploads

By default Solid HTTP sessions only last for 6 seconds. This is a configuration setting for very economical use of system resources on the Solid server. These 6 seconds could be a bit short when you want to allow applications to upload very large files using the Solid protocols. One can increase the expiration setting for memory locks in the CSS server to establish this. Create a second configuration file to update this setting:

E.g. config_session.jsonld:

```
{
  "@context":
  "https://linkedsoftwaredependencies.org/bundles/npm/@solid/community-
  server/^5.0.0/components/context.jsonld",
  "@graph": [
    {
      "@type": "Override",
      "overrideInstance": { "@id":
  "urn:solid-server:default:ResourceLocker" },
      "overrideParameters": {
        "@type": "WrappedExpiringReadWriteLocker",
        "expiration": 120000
      }
    }
  ]
}
```

Now start up the CSS with all the configuration files:

```
community-solid-server -c ./file.json ./config_session.jsonld
```

Oops

Made a mistake? Start all over by deleting the `.internal` directory in your test folder.

Deployment

In a Apache configuration create a proxy tunnel:

```
RewriteEngine On
```

```
RequestHeader set X-Forwarded-Host bellow2.ugent.be
```

```
RequestHeader set X-Forwarded-Proto https
```

```
ProxyPreserveHost On
```

```
ProxyPass / http://127.0.0.1:3000/
```

```
ProxyPassReverse / http://127.0.0.1:3000/
```

```
RewriteCond %{HTTP:Upgrade} websocket [NC]
```

```
RewriteCond %{HTTP:Connection} upgrade [NC]
```

```
RewriteRule ^/?(.*) "ws://127.0.0.1:3000/$1" [P,L]
```

Now you can run the Solid on port 80