IOTIA : apache2

apache2 et userdir

PHP optionnel

sudo apt install apache2 php mysql-server libapache2-mod-php php-mysql

systemctl -l status apache2

sudo -i

a2enmod userdir
systemctl restart apache2

Optionnel pour PHP :
cd /etc/apache2/mods-enabled
emacs php7.0.conf

```
# Running PHP scripts in user directories is disabled by default
#
# To re-enable PHP in user directories comment the following lines
# (from <IfModule ...> to </IfModule>.) Do NOT set it to On as it
# prevents .htaccess files from disabling it.
#<IfModule mod_userdir.c>
#    <Directory /home/*/public_html>
#        php_admin_flag engine Off
#    </Directory>
#</IfModule>
```

systemctl restart apache2

avec public_html
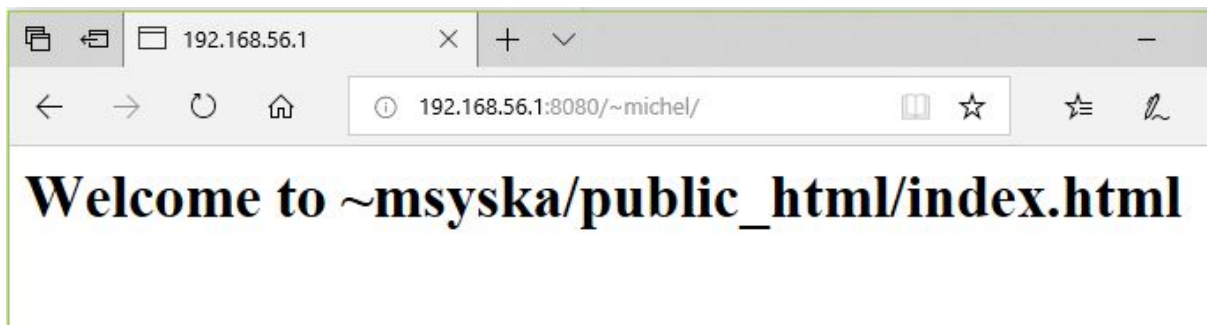
```
$ mkdir public_html
$ cd public_html/
$ cat > index.html
<h1>Welcome to ~msyska/public_html/index.html</h1>
$
```

Welcome to ~msyska/public_html/index.html

Install nodejs

$ wget https://nodejs.org/dist/v10.16.3/node-v10.16.3-linux-x64.tar.xz
$ tar xvf node-v10.16.3-linux-x64.tar.xz
$ mv node-v10.16.3-linux-x64 nodejs

$ cat >> .profile
export PATH=~/nodejs/bin:$PATH
export NODE_PATH=~/nodejs/lib/node_modules

Terminer la redirection avec ^D

Si besoin :
source .profile
et vérifier le PATH

$ node -v
v10.16.3

$ npm -v
6.9.0

Fichier hello.js
```
// Load HTTP module
var http = require("http");

// Create HTTP server and listen on port 8000 for requests
http.createServer(function(request, response) {

    // Set the response HTTP header with HTTP status and Content type
    response.writeHead(200, {'Content-Type': 'text/plain'});

    // Send the response body "Hello World"
    response.end('Hello World\n');
}).listen(8000);

// Print URL for accessing server
console.log('Server running at http://127.0.0.1:8000/');
```
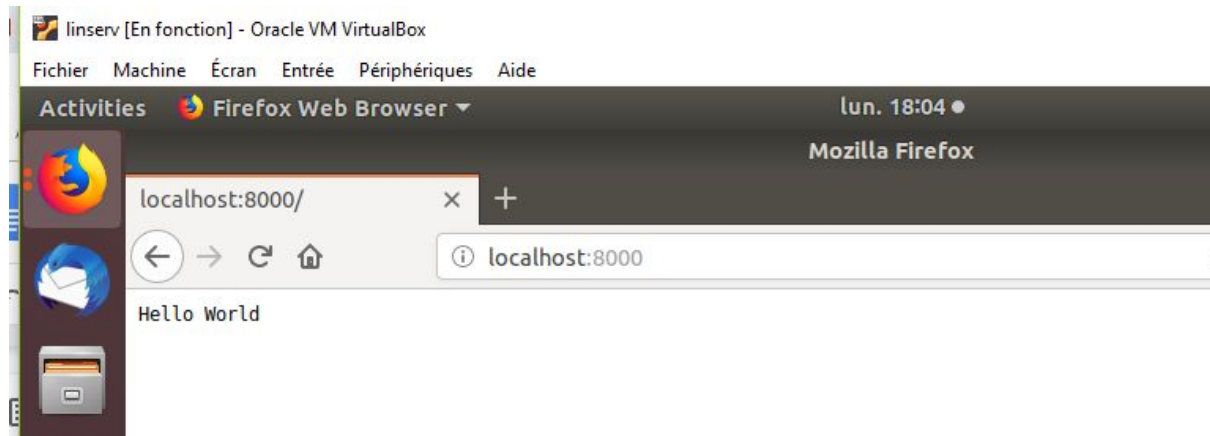
```
$ node hello.js
Server running at http://127.0.0.1:8000/
```


Optionnel :
Mettre à jour npm

```
$ npm install -g npm
```

mettre à jour la version de node avec n :

```
$ npm install n -g
```

```
$ export N_PREFIX=~/nodejs
$ n stable
```

```
  installing : node-v10.16.3
      mkdir : /home/michel/nodejs/n/versions/node/10.16.3
      fetch : https://nodejs.org/dist/v10.16.3/node-v10.16.3-linux-x64.tar.gz
###############
  installed : v10.16.3 (with npm 6.9.0)
```

Comment y accéder depuis Windows ?

#https://stackoverflow.com/questions/11172351/how-to-put-nodejs-and-apache-in-the-same-port-80

Éditer le fichier :

/etc/apache2/sites-available/000-default.conf

```
    #ms: debut ajout du 25 05 2018
     <Location /node>
          ProxyPass http://127.0.0.1:8124/
          ProxyPassReverse http://127.0.0.1:8124/
     </Location>
     <Location /iut>
          ProxyPass http://127.0.0.1:8125/
          ProxyPassReverse http://127.0.0.1:8125/
```

</Location>
        #ms: fin ajout du 25 05 2018

</VirtualHost>

Puis dans le terminal :

#a2enmod proxy
#a2enmod proxy_http
#systemctl restart apache2

$ cat test_iut_apache2.js
var http = require('http');
http.createServer(function (req, res) {
  res.writeHead(200, {'Content-Type': 'text/plain'});
  res.end('Hello Apache nodejs IUT!\n');
}).listen(8125, '127.0.0.1');

$ cat test_node_apache2.js
var http = require('http');
http.createServer(function (req, res) {
  res.writeHead(200, {'Content-Type': 'text/plain'});
  res.end('Hello Apache!\n');
}).listen(8124, '127.0.0.1');