**Create an Express Server**

**Revision History**:

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| --- | --- | --- | --- |
| Author | Description | Date | Version |
| Robert Chin | Initial Document Creation | 3/31/20 | V0.1 |

**Prerequisites**:

1. Virtual Machine or Physical Server running Ubuntu 16.04

**Procedures**:

1. Installing NodeJS

curl -sL https://deb.nodesource.com/setup\_8.x | sudo -E bash -

sudo apt-get install -y nodejs build-essential

1. Create package.json under /home/ubuntu

npm init, or vi the following into package.json:

{

"name": "example",

"version": "1.0.0",

"description": "",

"main": "index.js",

"scripts": {

"test": "echo \"Error: no test specified\" && exit 1"

},

"author": "Robert Chin",

"license": "ISC"

}

1. Install Express

npm install express

npm install express-generator -g

express -v ejs mysite

cd mysite

1. Edit webserver configuration (/home/ubuntu/mysite/bin/www)

server.listen(port, '0.0.0.0');

server.listen(port, '192.168.1.10');

1. Start Express web server on Port 80 (In folder /home/ubuntu/mysite)

DEBUG=myapp:\* PORT=80 npm start

For production running,

npm run start

1. Navigate with Browser to the website
2. Enable HTTPS on Express Server
   * 1. Create Self Signed Certificates

openssl req -nodes -new -x509 -keyout server.key -out server.cert

* + 1. Modify www file

var https = require('https');

var fs = require('fs');

/\*\*

\* var server = http.createServer(app);

\*/

var server = https.createServer({

key: fs.readFileSync('/home/ubuntu/mysite/bin/server.key'),

cert: fs.readFileSync('/home/ubuntu/mysite/bin/server.cert')

}, app);

* + 1. Run the application

PORT=443 npm run start

* + 1. Navigate with Browser to the website