How to Setup Node and Express on Amazon Web Services EC2 1) Make an account on Amazon Web Services [http://aws.amazon.com/](https://www.youtube.com/redirect?redir_token=0aFtopoMb6JFIK583gjzPYrymUN8MTUxOTE1ODAyMkAxNTE5MDcxNjIy&q=http%3A%2F%2Faws.amazon.com%2F&v=WxhFq64FQzA&event=video_description)

2) Create a vanilla Ubuntu micro EC2 instance

3) Security Open HTTP, HTTPS, Port 8080, and Port 9000

4) Launch the instance and save the pem file (private key)

5) Make sure that pem file has correct permissions

**chmod 600 node.pem**

**chown :Users node.pem**

5) Update Ubuntu and install these packages

**sudo apt-get update**

**sudo apt-get install libssl-dev g++ make**

6) [http://nodejs.org/download/](https://www.youtube.com/redirect?redir_token=0aFtopoMb6JFIK583gjzPYrymUN8MTUxOTE1ODAyMkAxNTE5MDcxNjIy&q=http%3A%2F%2Fnodejs.org%2Fdownload%2F&v=WxhFq64FQzA&event=video_description)

(Get node source files)

**wget** [**http://nodejs.org/dist/v0.10.32/node-...**](https://www.youtube.com/redirect?redir_token=0aFtopoMb6JFIK583gjzPYrymUN8MTUxOTE1ODAyMkAxNTE5MDcxNjIy&q=http%3A%2F%2Fnodejs.org%2Fdist%2Fv0.10.32%2Fnode-v0.10.32.tar.gz&v=WxhFq64FQzA&event=video_description)

7) Extract the packed tar.gz and change directory

**tar -xvf node-v0.10.32.tar.gz**

**cd node-v0.10.32**

8) Execute the binaries, make, and install

**./configure && make && sudo make install**

(Requires Time)

9) **cd ../**

**mkdir test1**

**cd test1**

**vim test1.js**

(Insert is to edit as esc :x is to save)

10**) var http = require('http');**

**var port = 9000;**

**http.createServer(function (req, res) {**

**res.writeHead(200, {'Content-Type': 'text/plain'});**

**res.end('Hello there, I am Sampath Lakkaraju\n');**

**}).listen(port);**

**console.log('Listening on port', port);**

11) **node test1.js** (to run the javascript file on node)

CTRL+C to exit command

nohup node test1.js & (to run as a background process - no hiccup)

ps -ef (to check all background processes)

kill *id\_number*

12) cd /home/ubuntu

**sudo npm install express**

13) **mkdir test2**

**vim test2.js**

**var express = require('express');**

**var app = express();**

**app.get('/', function (req, res){**

**res.send('Hello there, I am Sampath Lakkaraju using Express\n');**

**});**

**var port = 9000;**

**app.listen(port);**

**console.log('Listening on port', port);**

14) Reroute IP Tables so that javascript file also displays on port 80

**sudo iptables -A PREROUTING -t nat -i eth0 -p tcp --dport 80 -j REDIRECT --to-port 9000**