

Return to "Full Stack Web Developer Nanodegree" in the classroom

# Linux Server Configuration

**REVIEW** 

CODE REVIEW 7

HISTORY

### **▼** README.md



```
1 # Linux Server Configuration
2
3 ### Project Description
4
```

#### **AWESOME**

Great job highlighting critical info on your project!

```
5 This is the third project in the Udacity Full-Stack Nanodegree 6 7 - IP Address: 54.93.190.254
```

#### **AWESOME**

Good job setting up your server to be accessible through an IP address but most o setup is a must since asking users to write IP addresses all the time is usually cumb

Here is a resource containing some basic initial info about DNS

```
8
9 - Accessible SSH port: 2200
Rate this review
11 - SSH Connection: ssh -i ~/.ssh/[keyFile] grader@54.93.190.25
```





```
_{
m 13} This summary will hopefully walk you through all the steps yo
15 # Walkthrough Steps
16
17 ### 1. The Baseline Installation of a Linux Distribution, Sec
18
19 ## Step 1: Get an Amazon LightSail Server
21 [Follow the link to start up your own LightSail Server] (https://www.ncbi.news.com/lightSail/server)
22
23 1. Sign up to the Amazon Service
24 2. Once logged in, under **Build a solution tab**, click **Bu
25 3. Create your instance:
26
27
28
       b. Select **Linux/Unix** under the **Pick your instance
29
30
       c. Click **OS Only** and select **Ubuntu 16.04 LTS**
31
32
       d. Select the lowest tier of the payment plans. If you co
33
36
37
39 ## Step 2: Configure LightSail Firewall
40
41 Before anything, make sure you configure your server firewall
42
43 1. Click on your instance name
44 2. Click on **Networking**
45 3. Under **Firewall**, click **Add Another**
46 4. Keep everything as default and simply enter the port number
47 5. Click Save
48
49 Now you are ready to start configuring your instance!
51 ## Step 3: Update, Secure!
53 1. In the same line as **Networking**, click on **Connect**
54 2. Click the shiny orange button **Connect using SSH**
56 You are now inside your instance using the LightSail terminal
61
62
63
64
65
```

```
66 This will ensure your instance is updated to the latest vers
 69
 70
 71
 72 Around line 5-6, change **PORT 22** to **PORT 2200**
 74 Save the file: `CTRL + X Y Enter`
 76 Now its time to configure the Uncomplicated Firewall (UFW)**
 78 5. Back in the terminal, run the following commands:
 79
81
 82
83
                                           # allow HTTP connect
85
87
88
89
 91
92 > *Warning: * When changing the SSH port, make sure that the
93
94
95 Once done with those configurations, it is now time to create
97
98 ## Step 4: Create user Grader; Sudo! Sudo! Sudo!
99 1. Run the following command to create the user:
100
       `sudo adduser grader #password: udacity`
101
103 2. To give the grader user permission to sudo, run the follow
104
105
107 3. Inside the now open file, add the following text:
108
         **"grader ALL=(ALL:ALL) ALL"**
109
110
111 4. Save and Exit the file: `CTRL + X Y Enter`
112
113 That's it! Now your grader user has sudo permissions! It is n
114
115 ## Step 5: Permission Granted!
116 1. On your local machine, inside a terminal (Recommended for
117
118
119
120 2. Enter the path you want to save the key-pairs in:
121
122
123
124 3. Once the key is created, run the following command:
```

```
126
127
128 4. Copy the whole line that is displayed.
129
130 5. Back on your LightSail terminal, run the following command
131
132
133
134
135
136
137
138
139
140
141
142
143
144
145
146
147
148 Alright! `grader` user is setup. Now, we just need one last
150 ## Step 5: RootLogin: Permission Denied!
152
153
154
155 2. Navigate the file until you find the following:
156
        **PermitRootLogin** - Change to **no**
157
158
        **PasswordAuthentication** - Change to **no**
159
160
161 ## Step 6: Restart the SSH Service
162 1. Run the following command:
163
164
165
167 And, we are done with the first Part of the Configuration! We
168
169 > *Note: * By now, you might have lost access to your LightSa:
170
171
172 ### 2. Flask Application Deployment
174 Let's get into deploying our application for real now!
175
176 ## Step 1: Configure Timezone
177 1. Make sure the timezone is UTC by running the following cor
178
179
180
181 2. Incase it is not UTC, run the following command:
182
183
184
```

```
_{
m 186} We will now configure the Apache to serve Python mod wsgi app
188 1. Run the following commands:
189
190
191
192
193
194
195
196
197 > *Note: * If you have built your application with Python2, us
198
199
200 ## Step 3: PostgreSQL Time!
201 We will now configure the PostgreSQL package
202
203 1. Run the following commands:
204
205
206
207
208
209
210
211
212
213 2. Inside the database, run the following:
214
215
216
217
218
219
220
221
222 ## Step 4: Git Time!
223 1. Install git (if not already installed). Run the following
224
225
226
227 ## Step 5: Deployment Time!
228 1. Clone the git repositroy for your Item Catalog Project &
229
230
231
232
233
234
235
236
237
238 2. Change your files (database_setup.py, database init.py, ap
239
240
241
        `create engine('postgresql://catalog:yourPassword@localho
242
243
244
```

```
245
246
247
248
249
250
            import os
251
            import logging
252
            import psycopg2
253
254
255
256
257
            app.run()
258
259
260
261
262
             app.debug = True
263
             app.run(host='0.0.0.0', port=8080)
264
266
267
            import os
269
            import sys
270
            import psycopg2
271
272
273
274
275
            import psycopg2
276
277
278 3. Create your _.wsgi_ file. Run the following commands:
279
```

## AWESOME

Excellent Markdown usage to make your README more readable! It sure makes pr stand out.

```
281
282
283
284
285
       a. Inside the file, write the following:
286
287
        import sys
289
        import logging
290
291
        logging.basicConfig(stream=sys.stderr, level=logging.DEBU
292
293
        sys.path.append('/var/www/catalog/catalog/')
294
        sys.path.append('/usr/local/bin/python3.5/site-packages'
295
```

```
296
297
        from catalog import app as application
298
        application.secret key = 'super secret key
299
300
301
302
303
304 4. Configure a New VirtualHost. Run the following commands:
307
308
309
310
311
312
313
        <VirtualHost *:80>
314
            ServerName 54.93.190.254
315
```

## AWESOME



```
ServerAlias ec2-54-93-190-254.eu-central-1.compute.ar
            ServerAdmin grader@54.93.190.254
317
            WSGIDaemonProcess catalog
318
            WSGIProcessGroup catalog
319
            WSGIScriptAlias / /var/www/catalog/catalog.wsgi
320
321
            <Directory /var/www/catalog/catalog/>
322
                Order allow, deny
323
                Allow from all
324
            </Directory>
325
326
327
328
            <Directory /var/www/catalog/catalog/static/>
329
                Order allow, deny
330
                Allow from all
331
            </Directory>
332
333
334
335
336
        </VirtualHost>
337
338
339
341
342 5. Install all the dependencies
343
```

```
344
345
346
347
349
350
351
352 6. Rename app.py. Run the following command:
353
354
355
357
358
359
360
361
362
363
364 8. Enable the virtual site. Run the following command:
366
367
368
369
370
371
372 **And all done! If you visit your application URL or your IP
373
374
375 ## References
376
377 **Udacity Forums**
378
```

# AWESOME

Great job documenting some references. It is essential to make your documentation

```
**GitHub**
380 **Special Thanks to *
381 https://github.com/a-g-hantash/linux-server-configuration
382 https://github.com/iliketomatoes/linux_server_configuration
383 https://github.com/rrjoson/udacity-linux-server-configuration
384 https://github.com/twhetzel/ud299-nd-linux-server-configuration
385 https://github.com/stueken/FSND-P5_Linux-Server-Configuration
386 https://github.com/kongling893/Linux-Server-Configuration-UD2
387 https://github.com/louiscollinsjr/udacity-linux-server-configuration-UD2
388
389
390 * for a very helpful README**
```

RETURN TO PATH