

LSC raport
Lab 4
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03.11.22



AGH

Task 1.

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status
<input type="checkbox"/>	lab4	i-0c4947551aa4cf1c3	Running	t2.micro	2/2 checks passed	No alarms

```
[ec2-user@ip-172-31-25-138 ~]$ sudo yum install httpd
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core
Resolving Dependencies
--> Running transaction check
--> Package httpd.x86_64 0:2.4.54-1.amzn2 will be installed
--> Processing Dependency: httpd-tools = 2.4.54-1.amzn2 for package: httpd-2.4.54-1.amzn2.x86_64
--> Processing Dependency: httpd filesystem = 2.4.54-1.amzn2 for package: httpd-2.4.54-1.amzn2.x86_64
--> Processing Dependency: system-logos-httpd for package: httpd-2.4.54-1.amzn2.x86_64
--> Processing Dependency: mod_http2 for package: httpd-2.4.54-1.amzn2.x86_64
--> Processing Dependency: httpd filesystem for package: httpd-2.4.54-1.amzn2.x86_64

[ec2-user@ip-172-31-25-138 ~]$ sudo systemctl enable httpd
```

Task 2.

```
dawid@DESKTOP-389PK2L:/mnt/d/semestr_XIX/lsc/lab4$ python3 lab4.py
Starting EC2
EC2 started in: 33.38303589820862
Downloading file
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN" "http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd">

<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en">
  <head>
    <title>Test Page for the Apache HTTP Server</title>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
    <style type="text/css">
      /**/
      body {
        background-color: #fff;
        color: #000;
        font-size: 0.9em;
        font-family: sans-serif, helvetica;
        margin: 0;
        padding: 0;
      }
      :link {
        color: #c00;
      }
    &lt;/style&gt;
  &lt;/head&gt;
  &lt;body&gt;
    &lt;p&gt;You may now add content to this page. If you are not yet using it, you may want to look at the
    &lt;code&gt;httpd.conf&lt;/code&gt; file. If you are not yet using it, follow the instructions in the file &lt;code&gt;/etc/httpd/conf.d/welcome.conf&lt;/code&gt;
    &lt;/p&gt;
    &lt;p&gt;You are free to use the images and documents that are part of this page, but you must not remove the
    &lt;code&gt;httpd.conf&lt;/code&gt; file. If you are not yet using it, follow the instructions in the file &lt;code&gt;/etc/httpd/conf.d/welcome.conf&lt;/code&gt;
    &lt;/p&gt;
    &lt;p align="center"&gt;&lt;a href="http://www.apache.org/"&gt;http://www.apache.org/&lt;/a&gt;
    &lt;/p&gt;
    &lt;p align="center"&gt;[ Powered by Apache ]&lt;/p&gt;
  &lt;/body&gt;
&lt;/html&gt;

Shuting down EC2
Done
dawid@DESKTOP-389PK2L:/mnt/d/semestr_XIX/lsc/lab4$</pre></div>
```

```

1  import boto3
2  import requests
3  import json
4  import time
5
6
7  ec2 = boto3.resource('ec2', region_name='us-east-1')
8
9  print('Starting EC2')
10 start = time.time()
11
12 instance = ec2.create_instances(
13     ImageId="ami-02f28876a96187313",
14     MinCount=1,
15     MaxCount=1,
16     InstanceType="t2.micro",
17     SecurityGroupIds=["launch-wizard-1"]
18 ) [0]
19
20 instance.wait_until_running()
21
22 end = time.time()
23 print('EC2 started in:', end - start)
24
25
26 ec2_client = boto3.client('ec2', region_name='us-east-1')
27 description = ec2_client.describe_instances(InstanceIds=[instance.id])
28 ip = description["Reservations"][0]["Instances"][0]["PublicIpAddress"]
29
30 address = 'http://' + ip + ':80'
31 response = requests.get(address)
32 print('Downloading file')
33 print(response.text)
34
35 with open('index.html', 'w+') as f:
36     f.write(response.text)
37
38 print('Shuting down EC2')
39 instance.terminate()
40 print('Done')

```

Task 3.

It took about 30 s to start an instance.

Task 4.

```

37 print('Shuting down EC2')
38 instance.terminate()
39 print('Done')
40

```

<input type="checkbox"/>	Name ▾	Instance ID	Instance state ▾	Instance type ▾	Status check	Alarm status
<input type="checkbox"/>	-	i-08e4fc940d24d1a48	Terminated 🔍	t2.micro	-	No alarms +