

Homework 6

Hi Jack,

Hope you are doing well. I am happy to help with your requests.

1. My public key is as follows: ssh-rsa

```
AAAAB3NzaC1yc2EAAAADAQABAAQGBgQC+SJcH7/xkv4XEd2MrjDnGsMpT9wswMgnAH8zKe4JnE/ssygA
rStOA5DEoqfgboXxWV/PA25Fs6tSqDnPPLIW4xDejyixJWBByhvYvSMA8ML8cBmWJKJDTamFVzc42p7Zve
l6bdCCNnbVKEBsLMnhUvPamp1mZNGXsJp28B71/ohfO0gbjcWNkyyNsTGfgv0VQZvpUEFGpR/07iT3YAS
cv5WqHF5jkHSbhJR7NI9k04HgssfOnNwy48DxZSn2IaVEhikBq7YK9fBH6YeMTjskMIREmqQSP5dvTzWDu
6Mi45V6g/bcvPmYPQDONnAB0SUTQoXQ0ySF+a5mppdS+702SVFUOIg4Po77IISpv3QemuwsfzVIKHgC
qm5qNRwGN1XWjZoJwNI1tbC7LWyeBEmjyqmfsYQe2LNx8lla/RpCY3g7wut6wwxHG0W54Z0J6JK/6XrV2j
+3uTaF+vl6qOP4bqMvpAUujJHKSrgLlsgLSZtI75N3GXn9jPFjiGCYCE= jonasxie@ip-172-31-78-96
```

```
jonasxie@ip-172-31-78-96:~$ ssh-keygen -t rsa
Generating public/private rsa key pair.
Enter file in which to save the key (/home/jonasxie/.ssh/id_rsa):
Created directory '/home/jonasxie/.ssh'.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/jonasxie/.ssh/id_rsa
Your public key has been saved in /home/jonasxie/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:6a0r/ONkSGx8g5RanTiuTSgibNh+7WX06+YXZYrfen4 jonasxie@ip-172-31-78-96
The key's randomart image is:
+----[RSA 3072]-----+
|
|   + .
|  * o
| o.  O o .  o
|+oo o O S . +
|oo . B = +. o
| . o.+ * o. o
| . o=...o o E
| . +=+.+. .
+----[SHA256]-----+
```

```
jonasxie@ip-172-31-78-96:~/.ssh$ cat id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQGBgQC+SJcH7/xkv4XEd2MrjDnGsMpT9wswMgnAH8zKe4JnE/ssygArStOA5DEoqfgboXxWV/PA25Fs6tSqDnPPLIW4xDejyixJWBByhvYvSMA8ML8cBmWJKJDTamFVzc42p7Zvel6bdCCNnbVKEBsLMnhUvPamp1mZNGXsJp28B71/ohfO0gbjcWNkyyNsTGfgv0VQZvpUEFGpR/07iT3YAScv5WqHF5jkHSbhJR7NI9k04HgssfOnNwy48DxZSn2IaVEhikBq7YK9fBH6YeMTjskMIREmqQSP5dvTzWDu6Mi45V6g/bcvPmYPQDONnAB0SUTQoXQ0ySF+a5mppdS+702SVFUOIg4Po77IISpv3QemuwsfzVIKHgCqm5qNRwGN1XWjZoJwNI1tbC7LWyeBEmjyqmfsYQe2LNx8lla/RpCY3g7wut6wwxHG0W54Z0J6JK/6XrV2j+3uTaF+vl6qOP4bqMvpAUujJHKSrgLlsgLSZtI75N3GXn9jPFjiGCYCE= jonasxie@ip-172-31-78-96
```

2. I first do `sudo apt-get update` to update the source. Then I used `sudo apt-get install apache2` to install Apache server. To download the zip file, I used `sudo wget` to download it and save it in `/var/www/html/`

```
jonasxie@ip-172-31-78-96: /var/www/html$ sudo wget https://github.com/SI504/basic_html/raw/master/zip.zip
--2025-03-07 02:36:09-- https://github.com/SI504/basic_html/raw/master/zip.zip
Resolving github.com (github.com)... 140.82.113.4
Connecting to github.com (github.com)[140.82.113.4]:443... connected.
HTTP request sent, awaiting response... 302 Found
Location: https://raw.githubusercontent.com/SI504/basic_html/master/zip.zip [following]
--2025-03-07 02:36:09-- https://raw.githubusercontent.com/SI504/basic_html/master/zip.zip
Resolving raw.githubusercontent.com (raw.githubusercontent.com)... 185.199.108.133, 185.199.111.133, 185.199.110.133, ...
Connecting to raw.githubusercontent.com (raw.githubusercontent.com)[185.199.108.133]:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 117586 (115K) [application/zip]
Saving to: 'zip.zip'

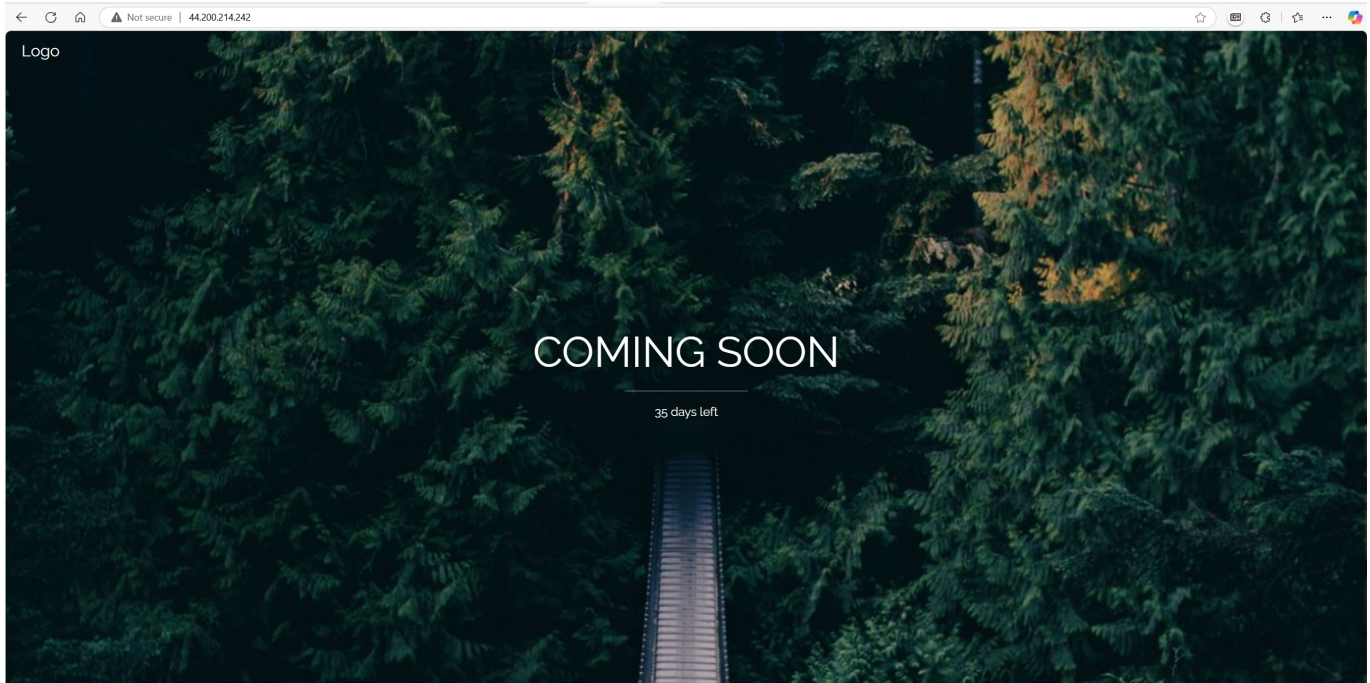
zip.zip                               100%[=====] 114.83K  --.-KB/s   in 0.003s

2025-03-07 02:36:09 (44.3 MB/s) - 'zip.zip' saved [117586/117586]
```

To unzip the files to the `/var/www/html/` directory, I used `sudo unzip zip.zip -d .` to unzip the files to current directory but not the subdirectory.

```
jonasxie@ip-172-31-78-96:/var/www/html$ sudo unzip zip.zip -d .
Archive:  zip.zip
replace ./index.html? [y]es, [n]o, [A]ll, [N]one, [r]ename: y
  inflating: ./index.html
   creating: ./w3images/
  inflating: ./w3images/forestbridge.jpg
jonasxie@ip-172-31-78-96:/var/www/html$ ls
index.html  w3images  zip.zip
jonasxie@ip-172-31-78-96:/var/www/html$ |
```

If you visit my IP address <http://44.200.214.242/>, you will see the nice website



3. We need to use `sudo cp -r . /root` to copy all the files in home directory to root directory. We need to use `-r` to copy the directory recursively. We need to use `sudo` to get the permission to copy the files to root directory.

```
jonasxie@ip-172-31-78-96:~$ sudo cp -r . /root/
jonasxie@ip-172-31-78-96:~$ sudo ls /root
1234  1234.pub  Pokemon.txt  security  snap  week2  week4  week5  week5.tar.gz  welcome.txt
```

Let me know if you have any additional questions!

Best,

Jonas