

Challenge 1 : Configure the Server (Fall 21)

Name : Lokesh Karanam
 pawprint : lkdw6

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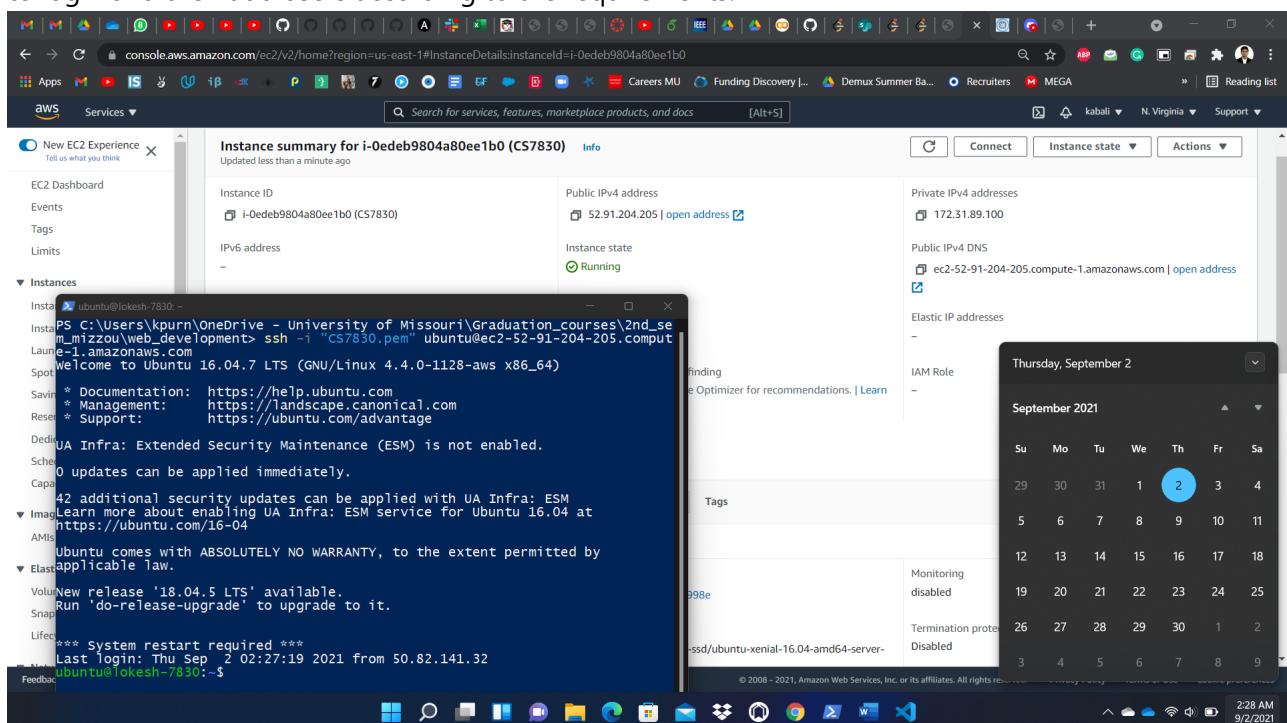
Tutorial Followed:

Inorder to complete this challenge, i followed the lectures of Professor wergeles in the class. I also watched his Fall 20 lectures that were on youtube. The setup was smooth and i didn't face any issues. During the course of this challenge, i learnt how to setup production level servers with high security. I'm so excited to learn what this course has to offer me in the further classes. My AWS public DNS is <http://ec2-52-91-204-205.compute-1.amazonaws.com/> and the domain i purchased from namecheap.com is <http://lokeshkaranam.me>. I think i can learn a lot from this class if i follow and keep on track with the progression of the class.

Steps Followed:

Step 1:

- Created an AWS ubuntu Instance with 28gb storage.
- Created a security group that allows SSH,HTTP and HTTPS for inbound rules.
- Downloaded the pem key file to the local for logging into the instance.
- AWS console and connection to my instance using the following command : ssh -i "CS7830.pem" ubuntu@ec2-52-91-204-205.compute-1.amazonaws.com
- During the initial connection to the instance, we do not have any users created, so we use ubuntu user to login and then add users according to the requirements.



The screenshot shows the AWS EC2 Instance Summary page for instance i-0edb9804a80ee1b0 (CS7830). The instance is running and has a Public IPv4 address of 52.91.204.205. The instance type is t2.micro. The calendar overlay shows September 2021 with the 2nd highlighted.

Step 2:

- After logging into the instance, the first thing we have to do is to upgrade and update the server.
 - sudo apt update
 - sudo apt upgrade
- You can see the applicable apps which can be updated by using
 - apt list --upgradable
- Set the hostname
 - Go to root using sudo su
 - enter hostname -F /etc/hostname
 - echo "lokes-7830" > /etc/hostname
 - again do hostname -F /etc/hostname
 - Click "hostname" to see if the changes occurred.
 - Restart the ubuntu server and you can see the changes.

The screenshot shows a Windows desktop environment with Visual Studio Code open. The terminal window displays a Linux session on an AWS instance (Ubuntu 16.04.7 LTS). The user is checking for security updates and upgrading the system. A calendar overlay is visible on the right side of the screen, showing the month of September 2021.

```

File Edit Selection View Go Run Terminal Help
File Explorer Preview lkdw6_md.md - lkdw6_challenge1 - Visual Studio Code
LKD6_CHALLENGE1
screencaps
root@lokesh-7830:~ m_mizzou@web_development> ssh -i "CS7830.pem" ubuntu@ec2-52-91-204-205.compute-1.amazonaws.com
Welcome to Ubuntu 16.04.7 LTS (GNU/Linux 4.4.0-1128-aws x86_64)

 * Documentation: https://help.ubuntu.com
 * Management: https://landscape.canonical.com
 * Support: https://ubuntu.com/advantage

UA Infra: Extended Security Maintenance (ESM) is not enabled.

0 updates can be applied immediately.

42 additional security updates can be applied with UA Infra: ESM
Learn more about enabling UA Infra: ESM service for Ubuntu 16.04 at
https://ubuntu.com/16-04

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

New release '18.04.5 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

*** System restart required ***
Last login: Thu Sep 2 02:28:20 2021 from 50.82.141.32
ubuntu@lokesh-7830:~$ hostname
lokesh-7830
ubuntu@lokesh-7830:~$ sudo -i
root@lokesh-7830:~# hostname
lokesh-7830
root@lokesh-7830:~#

```

2nd paragraph. *Italic*, **bold**, and `monospace`

September 2021

Su	Mo	Tu	We	Th	Fr	Sa
29	30	31	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	1	2

1. first item

Ln 28, Col 19 spaces: 4 UTT=8 CRLF Markdown

- You can check the ubuntu version using : `lsb_release -a`

The screenshot shows a Microsoft Word document with a terminal session embedded as a screenshot. The terminal shows the user checking the Ubuntu version and upgrading the system. The Microsoft Word ribbon is visible at the top, and the status bar at the bottom indicates the document is 241 words long.

```

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No Spac... Heading 1 Heading 2 Title Subtitle
ubuntu@lokesh-7830:~ applicable law.

New release '18.04.5 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

*** System restart required ***
Last login: Thu Sep 2 02:28:20 2021 from 50.82.141.32
ubuntu@lokesh-7830:~$ hostname
lokesh-7830
ubuntu@lokesh-7830:~$ sudo -i
root@lokesh-7830:~# hostname
lokesh-7830
root@lokesh-7830:~# exit
logout
ubuntu@lokesh-7830:~$ sudo su
root@lokesh-7830:/home/ubuntu#
root@lokesh-7830:/home/ubuntu#
root@lokesh-7830:/home/ubuntu# ls
root@lokesh-7830:/home/ubuntu# pwd
/home/ubuntu
root@lokesh-7830:/home/ubuntu# hostname -F /etc/hostname
root@lokesh-7830:/home/ubuntu# exit
exit
ubuntu@lokesh-7830:~$ lsb_release -a
No LSB modules are available.
Distributor ID: Ubuntu
Description: Ubuntu 16.04.7 LTS
Release: 16.04
Codename: xenial
ubuntu@lokesh-7830:~$ 

```

etc/hostname

website you want to use and key `name`:

Root `pwd`: `Loki@UM0393231650`

`Mysql password`: `Loki@UM0393231650`

`Sudo su -lkd6` for making lkd6 as the current root.

make `ssh` directory in lkd6: `mkdir ssh`

Page 1 of 2 241 words

- in /etc/hosts file add the ip address of your AWS instance and the domain you will be using and the name.

The screenshot shows the Visual Studio Code interface. On the left, the Explorer sidebar shows a folder named 'LKD6_CHALLENGE1' containing 'screenshots'. The main editor window displays the 'hosts' file with the following content:

```
# The following lines are desirable for IPv6 capable hosts
::1 ip6-localhost ip6-loopback
fe00::0 ip6-mcastprefix
ff00::1 ip6-allnodes
ff02::2 ip6-allrouters
ff02::3 ip6-allhosts

hosts" [readonly] 9L, 244C
```

Below the code editor is a terminal window showing the output of the 'cat' command on the 'hosts' file. To the right of the terminal is a preview pane showing the rendered content of the 'hosts' file.

At the bottom of the screen, there is a taskbar with various icons, a calendar for September 2021, and system status indicators.

Step 3: Set date

- Do "date" in the command prompt and see the date.
- Change the date by going to root using sudo -i.
- Enter dpkg-reconfigure tzdata
- UI pops up and select the date from the dropdown.
- Set it to Central time.

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Step 4: Add limited user

- try to SSH 'pawprint@ec2.amazonaws.com and see if you can successfully login.
- Go to AWS ububtu instance.
- Be a root using sudo -i.
- add user lkdw6. (pawprint)
- Set the UNIX password, name, phone number and other details.
- Check the users permissions in cat /etc/group.
- Add this user to sudo list using : adduser lkdw6 sudo
- Then go to cat /etc/group and check user privileges.

The screenshot shows the Visual Studio Code interface. On the left is the Explorer sidebar with a 'LKDW6_CHALLENGE1' folder containing 'screenshots'. The main area is a terminal window showing a list of devices (disk, lp, mail, news, uucp, proxy, kmem, dialout, fax, voice, cdrom, floppy, tape, sudo, audio, dip, www-data, backup, operator, list, irc, src, gnats, shadow, utmp, video, sasl, plugdev, staff, games) and their corresponding ports (x:6, x:7, x:8, x:9, x:10, x:12, x:13, x:15, x:20, x:21, x:22, x:24, x:25, x:26, x:27, x:29, x:30, x:33, x:34, x:37, x:38, x:39, x:40, x:41, x:42, x:43, x:44, x:45, x:46, x:50, x:60). Below this, the terminal shows a numbered list from 1 to 3. The preview pane on the right displays the challenge instructions and a calendar for September 2021.

```

disk:x:6
lp:x:7
mail:x:8
news:x:9
uucp:x:10
proxy:x:13
kmem:x:15
dialout:x:20:ubuntu
fax:x:21
voice:x:22
cdrom:x:24:ubuntu
floppy:x:25:ubuntu
tape:x:26
sudo:x:27:ubuntu,lkdw6
audio:x:29:ubuntu
dip:x:30:ubuntu
www-data:x:33:lkdw6
backup:x:34:
operator:x:37:
list:x:38:
irc:x:39:
src:x:40:
gnats:x:41:
shadow:x:42:
utmp:x:43:
video:x:44:ubuntu
sasl:x:45:
plugdev:x:46:ubuntu
staff:x:50:
games:x:60:

82 Here's a numbered list:
83
84 1. first item
85 2. second item
86 3. third item
87
88 Note again how the actual text starts at 4 columns in (4
characters

```

- You can use "sudo su lkdw6" for making lkdw6 as the current root.

The screenshot shows the Visual Studio Code interface. On the left is the Explorer sidebar with a 'LKDW6_CHALLENGE1' folder containing 'screenshots'. The main area is a terminal window showing a series of 'su' commands. It starts with a MySQL command, followed by 'root@lokesh-7830:~# exit', then 'ubuntu@lokesh-7830:/etc\$ sudo su -lkdw6', which results in an error message: 'su: invalid option -- 'k''. It then shows a help message for the 'su' command. The terminal then continues with another 'su' command, resulting in 'ubuntu@Tokesh-7830:/etc\$'. The preview pane on the right displays the challenge instructions and a calendar for September 2021.

```

mysql:x:117:
root@lokesh-7830:~# exit
logout
ubuntu@lokesh-7830:/etc$ sudo su -lkdw6
su: invalid option -- 'k'
Usage: su [options] [LOGIN]

Options:
  -c, --command COMMAND      pass COMMAND to the invoked shell
  -h, --help                  display this help message and exit
  -l, --login                 make the shell a login shell
  -m, -p,                      do not reset environment variables, and
  --preserve-environment     keep the same shell
  -s, --shell SHELL           use SHELL instead of the default in passwd

ubuntu@Tokesh-7830:/etc$ sudo su --lkdw6
su: unrecognized option '--lkdw6'
Usage: su [options] [LOGIN]

Options:
  -c, --command COMMAND      pass COMMAND to the invoked shell
  -h, --help                  display this help message and exit
  -l, --login                 make the shell a login shell
  -m, -p,                      do not reset environment variables, and
  --preserve-environment     keep the same shell
  -s, --shell SHELL           use SHELL instead of the default in passwd

ubuntu@Tokesh-7830:/etc$ sudo su lkdw6

```

Step 5: Disallow root logins over SSH

- try to SSH using root "ssh -i "CS7830.pem" root@ec2-52-91-204-205.compute-1.amazonaws.com".
- You will be allowed initially.
- To disallow this go to the AWS instance using your new user created by using "ssh -i "CS7830.pem" lkdw6@ec2-52-91-204-205.compute-1.amazonaws.com".
- Enable the root password using "passwd root"
- Make .ssh directory in lkdw6.
- Create a file named authorized_keys in .ssh folder using touch .ssh/authorized_keys.
- Change the permissions of .ssh folder using chmod 700 .ssh .
- Generate the key using ssh-keygen -y file_name.
- Paste this key inside the authorized_keys file.

The screenshot shows a Visual Studio Code interface. On the left, the Explorer sidebar shows a folder named 'LKDW6_CHALLENGE' containing 'screenshots'. The main area is a terminal window titled 'lkdw6@lokeh-7830: ~/ssh'. The terminal output is as follows:

```

Configure the Server [Fall 21] > ## Steps Followed: > ## Step 5: Disallow root logins over SSH
70 ! [make_root](screenshots\make_root.png "make_root")

0 updates can be applied immediately.

42 additional security updates can be applied with UA Infra: ESMWelcome to Ubuntu 16.
04.7 LTS (GNU/Linux 4.4.0-1128-aws x86_64)

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New release '18.04.5 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

*** System restart required ***
Last login: Thu Sep 2 02:11:59 2021 from 50.82.141.32
lkdw6@lokeh-7830:~/.ssh$ cd .ssh
lkdw6@lokeh-7830:~/.ssh$ vi authorized_keys
lkdw6@lokeh-7830:~/.ssh$ ls
authorized_keys
lkdw6@lokeh-7830:~/.ssh$ 

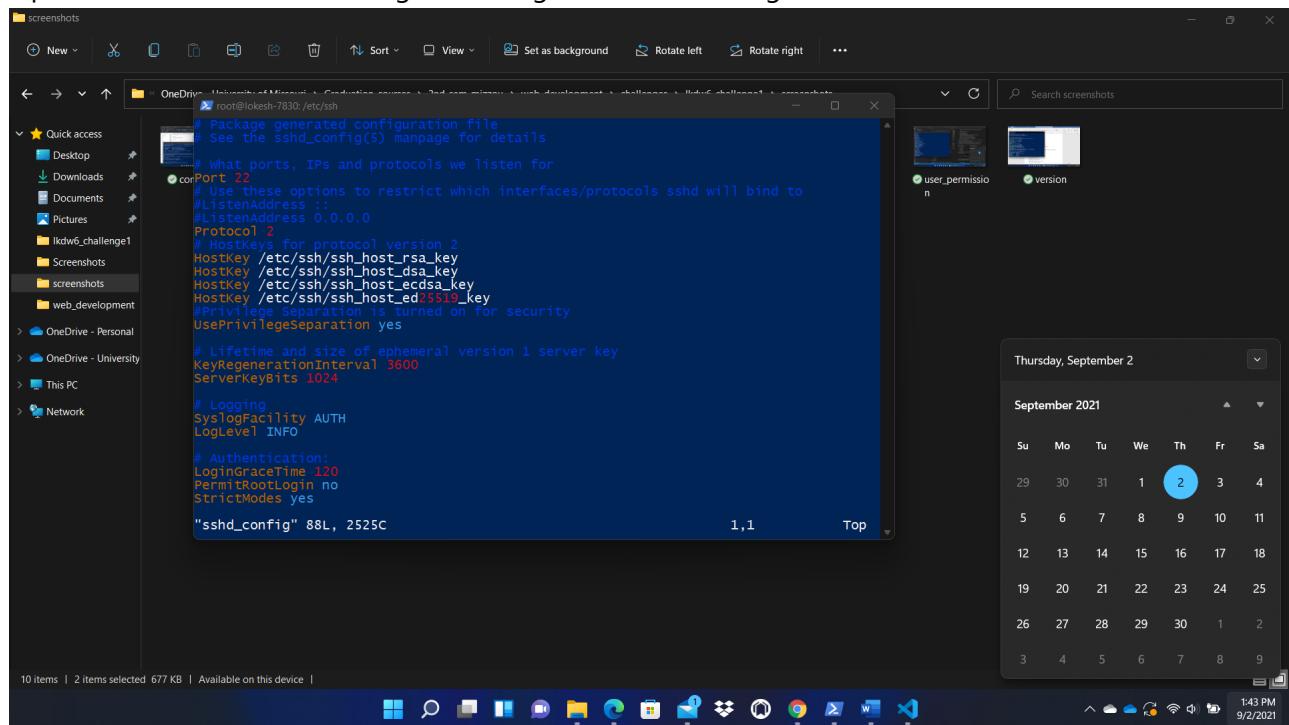
93     in chapters 12--14"). Three dots ... will be converted to an
94     ellipsis.
95     Unicode is supported. @
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97
98 An h2 header

```

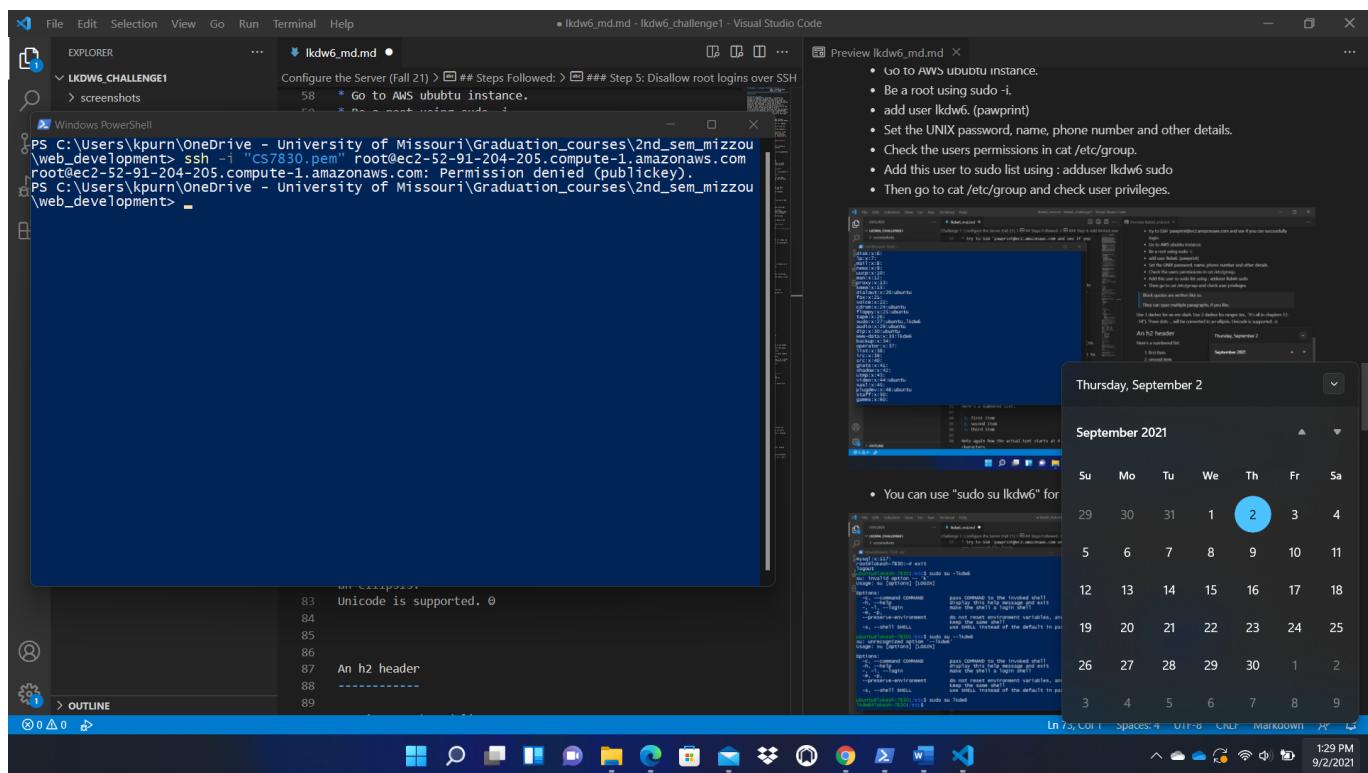
The right side of the screen has a preview of the markdown file 'lkdw6.md.md' and a calendar for September 2021.

- Go to root using sudo -i.

- Open file vi /etc/ssh/sshd_config and change "Permit Root Login" to "no"



- Restart the service using ssh restart.
- Then you will see you have disabled root logins.



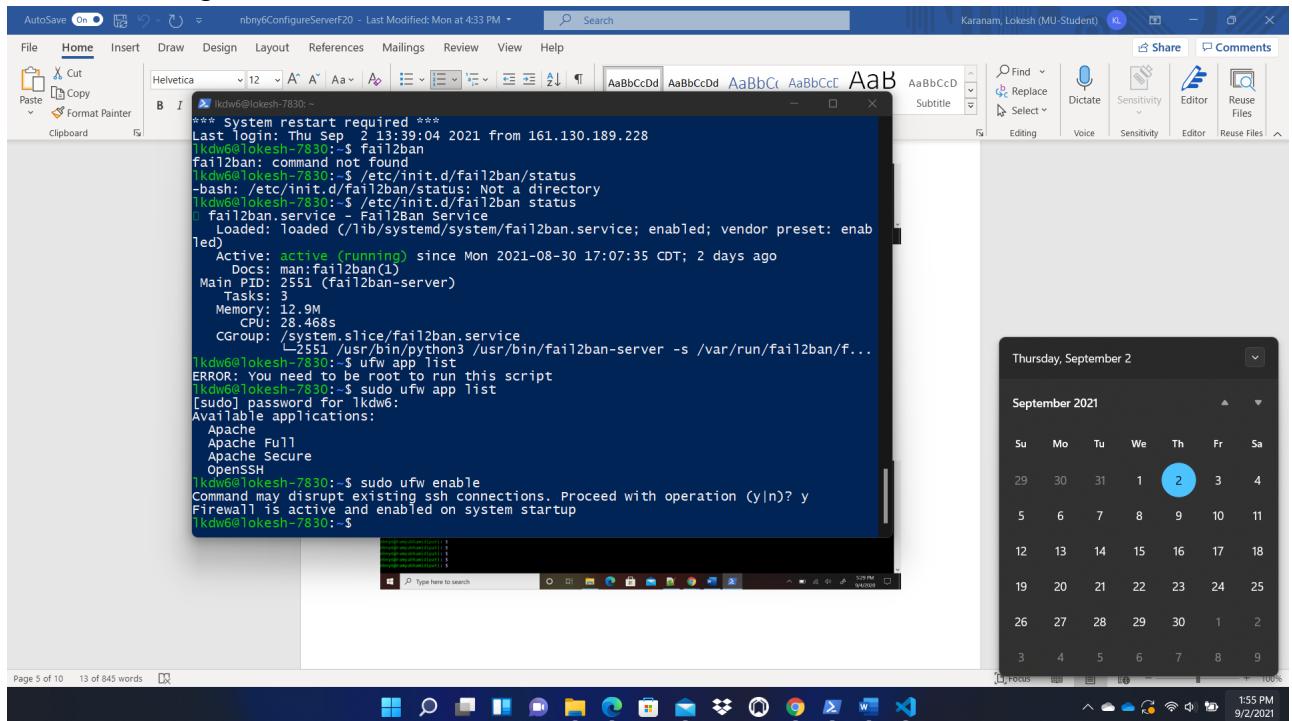
Step 6: Setup Fail2Ban

- Go to your server using " ssh -i "CS7830.pem" lkdw6@ec2-52-91-204-205.compute-1.amazonaws.com"
- Install fail2ban using "sudo apt-get install fail2ban".
- This will not allow bruteforce attacks by blocking IPs if they try to login a number of times.

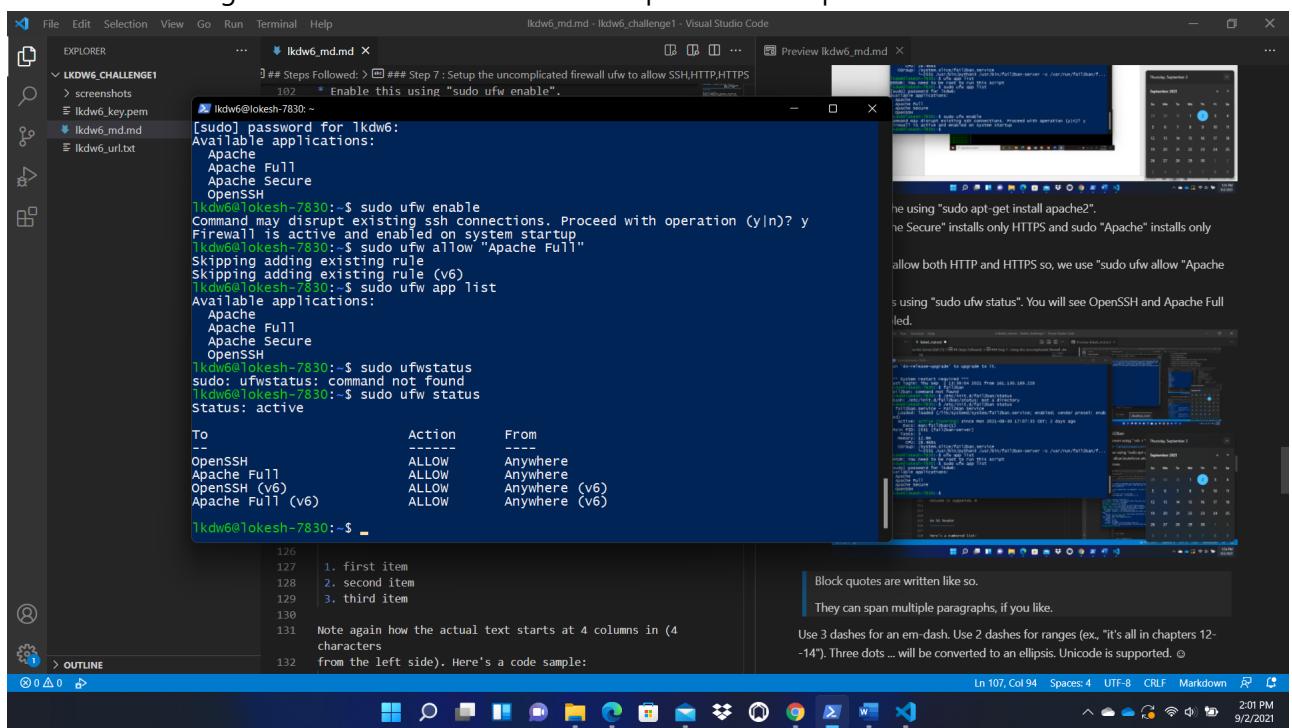
```

# Challenge 1 : Configure the Server (Fall 21) > ## Steps Followed: > ## Step 6: Setup Fail2Ban
84      " Open file vi /etc/ssh/sshd config and change "Permit
85      " root logins to "privilege_no"
86      " 
87      " 42 additional security updates can be applied with UA Infra: ESM
88      " Learn more about enabling UA Infra: ESM service for Ubuntu 16.04 at
89      " https://ubuntu.com/16-04
90      " 
91      " Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
92      " applicable law.
93      " 
94      " New release '18.04.5 LTS' available.
95      " Run 'do-release-upgrade' to upgrade to it.
96      " 
97      *** System restart required ***
98      Last login: Thu Sep 2 13:39:04 2021 from 161.130.189.228
99      lkdw6@tokesh:~$ fail2ban
100      fail2ban: command not found
101      lkdw6@tokesh:~$ /etc/init.d/fail2ban/status
102      -bash: /etc/init.d/fail2ban/status: Not a directory
103      lkdw6@tokesh:~$ /etc/init.d/fail2ban status
104      [fail2ban.service] Failed to load configuration: failed to load configuration file: /lib/systemd/system/fail2ban.service: No such file or directory.
105      ● fail2ban.service - Fail2Ban Service
106          Loaded: loaded (/lib/systemd/system/fail2ban.service; enabled; vendor preset: enabled)
107          Active: active (running) since Mon 2021-08-30 17:07:35 CDT; 2 days ago
108              Docs: man:fai2ban(1)
109          Main PID: 2551 (fail2ban-server)
110          Tasks: 3
111          Memory: 12.9M
112          CPU: 28.468s
113          CGroup: /system.slice/fail2ban.service
114              └─2551 /usr/bin/python3 /usr/bin/fail2ban-server -s /var/run/fail2ban/f...
115      lkdw6@tokesh:~$ 
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119      110      An h2 header
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```

- Enable this using "sudo ufw enable".



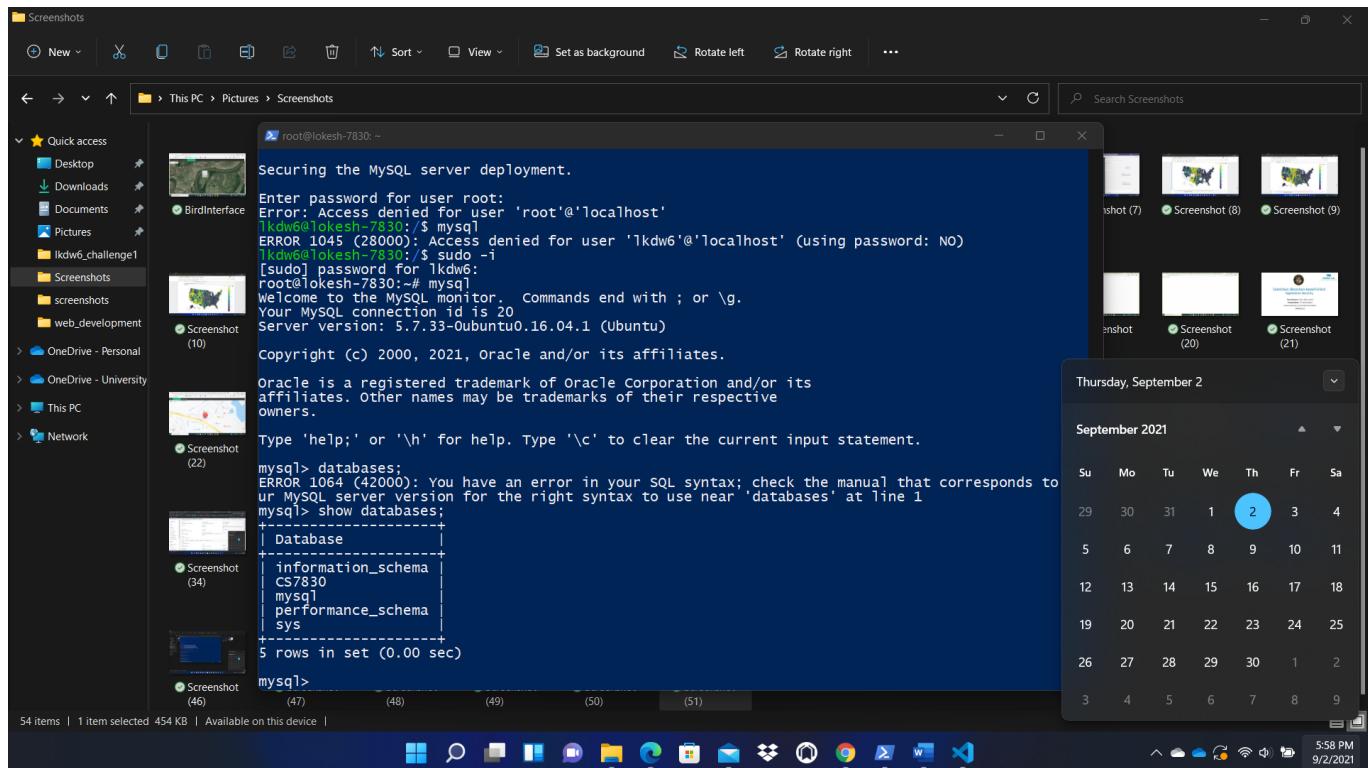
- Install Apache using "sudo apt-get install apache2".
- sudo "Apache Secure" installs only HTTPS and sudo "Apache" installs only HTTP.
- we need to allow both HTTP and HTTPS so, we use "sudo ufw allow "Apache Full"".
- Check status using "sudo ufw status". You will see OpenSSH and Apache Full will be enabled.



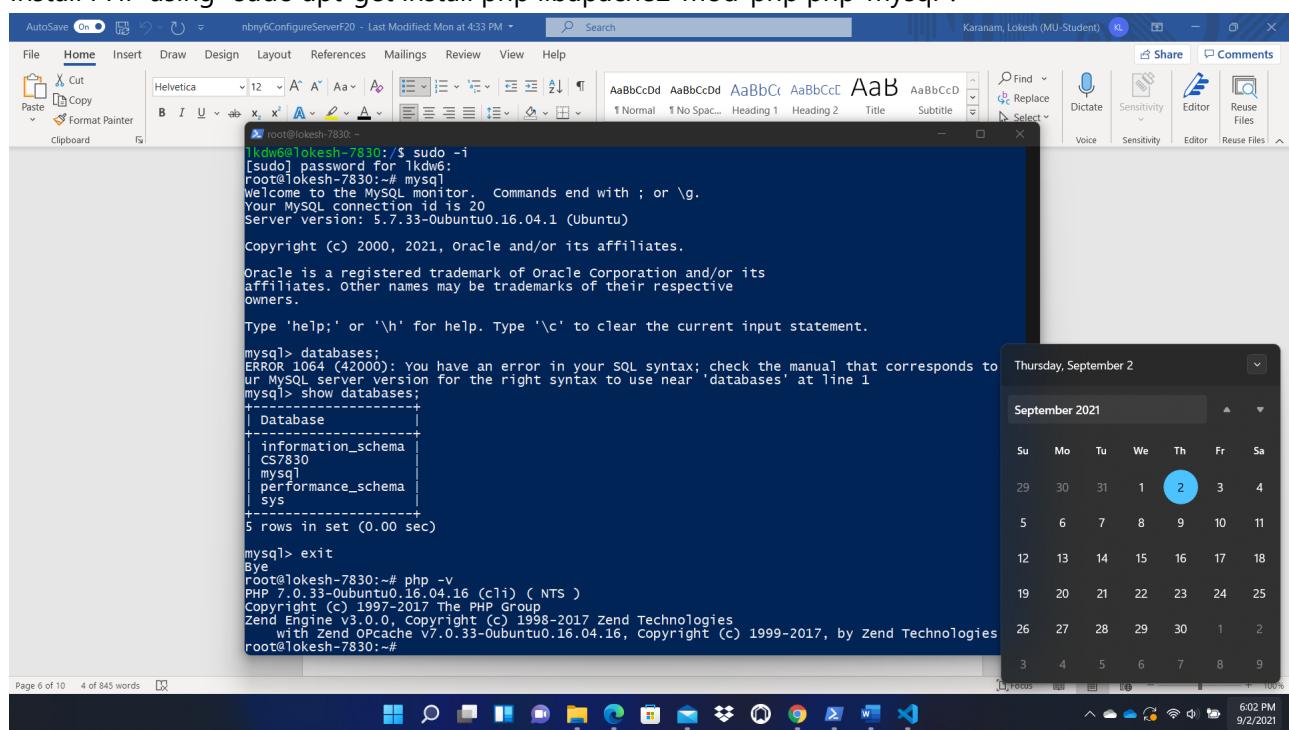
Step 8: Install LAMP stack

- First install mysql using "sudo apt-get install mysql-server".
- Secure the mysql connection
 - sudo mysql_secure_installation
- Go to mysql using mysql command : mysql
- Use this command to create user : create user 'lkdw6'@'localhost' identified by 'password';
- Create database by using :create database dbname;

- grant select, insert, update on database.* to 'lkdw6'@'localhost';



- Install PHP using "sudo apt-get install php libapache2-mod-php php-mysql".



- After you are done restart the service using : `sudo service apache2 restart`.

Step 9: Add limited user to www-data group

- run cat /etc/group to see if your pawprint is in the list of www-data group.

A screenshot of a Windows desktop environment. On the left, a terminal window titled 'web_development' displays a file tree structure. The root directory contains files like 'man', 'proxy', 'kmem', 'dialout', 'Qfax', 'voice', 'cdrom', 'floppy', 'tape', 'sudo', 'audio', 'dip', 'www-data', 'backup', 'operator', 'slist', 'irc', 'src', 'gnats', 'shadow', 'utmp', 'video', 'sasl', 'plugdev', 'staff', 'games', 'users', 'nogroup', 'systemd-journal', 'systemd-timesync', 'systemd-network', 'systemd-resolve', 'systemd-bus-proxy', 'input', 'crontab', 'syslog', 'netdev', 'lxd', 'messagebus', 'uid', 'ssh', 'monroot', 'admin', 'ubuntu', 'lkdw6', and 'ssl-cert'. A search bar at the top of the terminal window says 'Search web_development'. On the right, a calendar for September 2021 is displayed, showing the days from 29 to 30. The date '2' is highlighted with a blue circle. The system tray at the bottom shows icons for network, battery, and system status.

```
+ New ↴ lkdw6@lokiesh:~
```

```
- proxy:x:13:
```

```
- kmem:x:15:
```

```
- dialout:x:20:ubuntu
```

```
★ Qfax:x:21:
```

```
voice:x:22:
```

```
cdrom:x:24:ubuntu
```

```
floppy:x:25:ubuntu
```

```
tape:x:26:
```

```
sudo:x:27:ubuntu,lkdw6
```

```
audio:x:29:ubuntu
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```
dip:x:30:ubuntu
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```
www-data:x:33:lkdw6
```

```
backup:x:34:
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operator:x:37:
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slist:x:38:
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irc:x:39:
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src:x:40:
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gnats:x:41:
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shadow:x:42:
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utmp:x:43:
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video:x:44:ubuntu
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```
sasl:x:45:
```

```
plugdev:x:46:ubuntu
```

```
staff:x:50:
```

```
games:x:60:
```

```
users:x:100:
```

```
nogroup:x:65534:
```

```
systemd-journal:x:101:
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```
systemd-timesync:x:102:
```

```
systemd-network:x:103:
```

```
systemd-resolve:x:104:
```

```
systemd-bus-proxy:x:105:
```

```
input:x:106:
```

```
crontab:x:107:
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```
syslog:x:108:
```

```
netdev:x:109:ubuntu
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```
lxd:x:110:ubuntu
```

```
messagebus:x:111:
```

```
uid:x:112:
```

```
ssh:x:113:
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```
monroot:x:114:
```

```
admin:x:115:
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```
ubuntu:x:1000:
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```
lkdw6:x:1001:
```

```
ssl-cert:x:116:
```

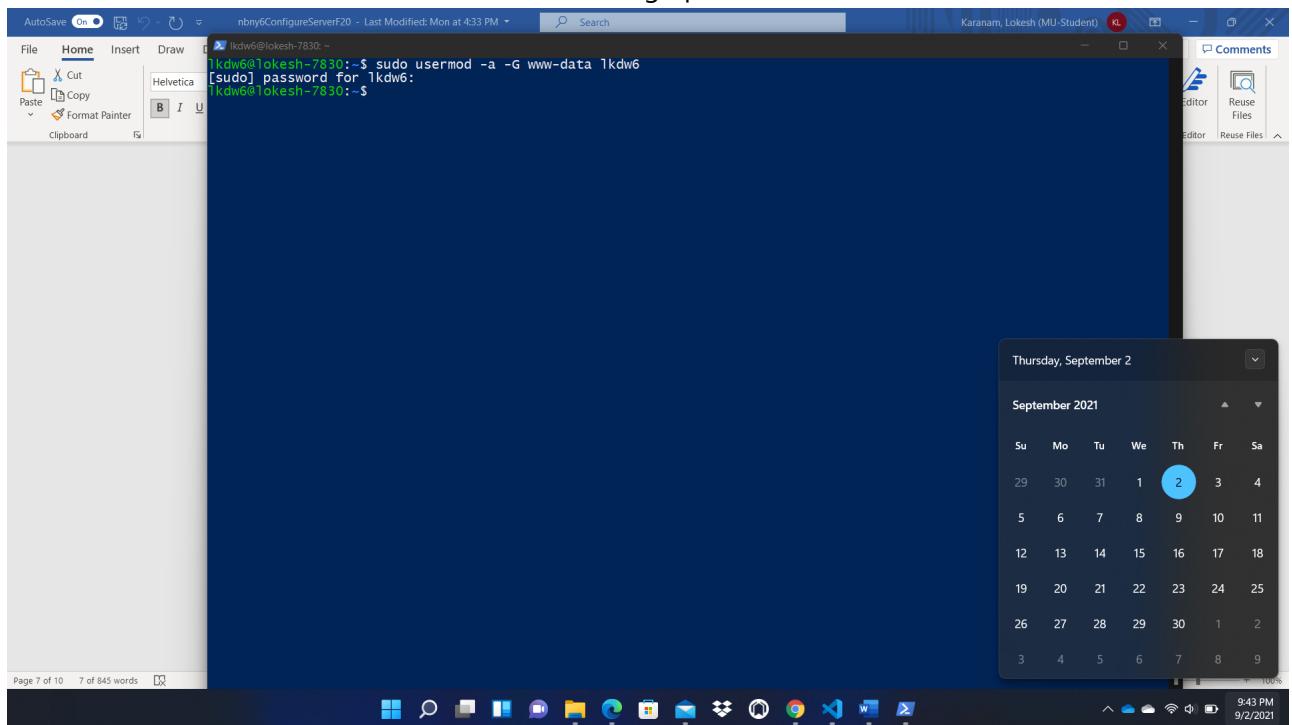
12 items

Thursday, September 2

September 2021

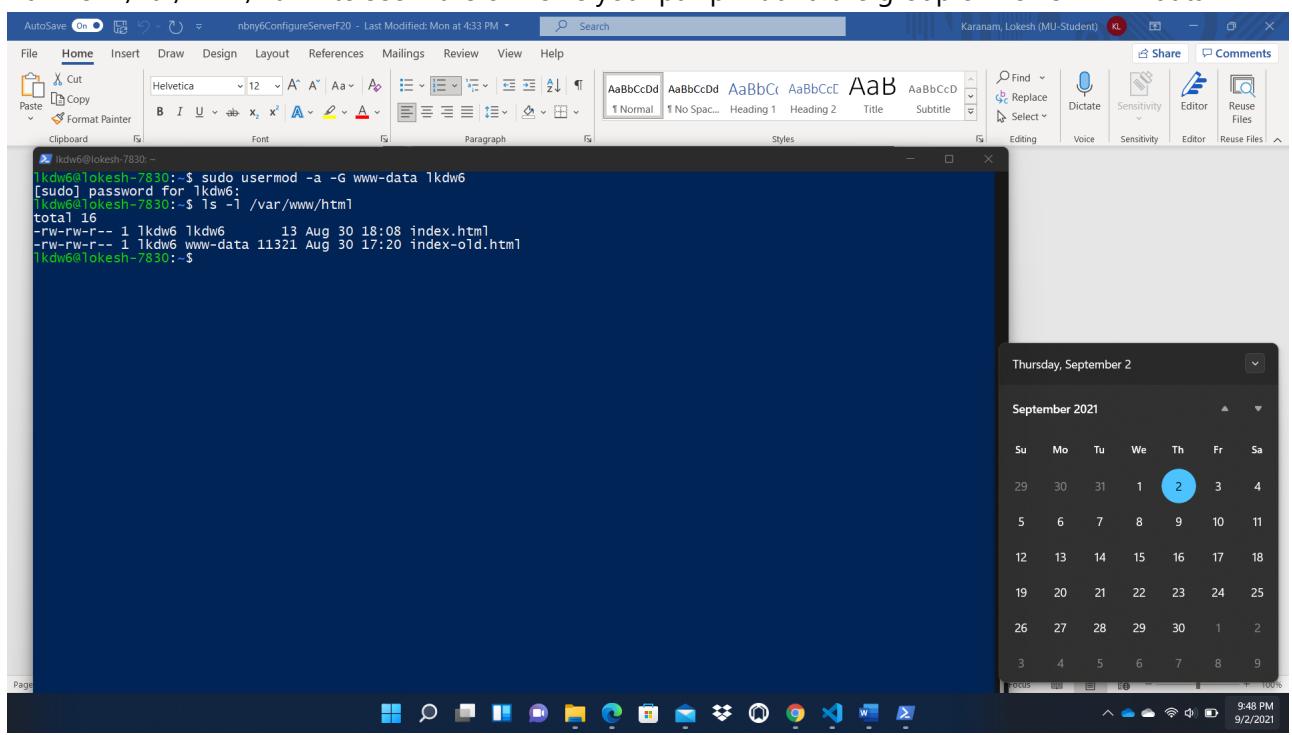
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12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	1	2
3	4	5	6	7	8	9

- Run sudo usermod -a -G www-data lkdw6 for setting up sudo for lkdw6.



Step 10: Lockdown permissions to public_html folder

- Run "ls -l /var/www/html" to see if the owner is your pawprint and the group owner is "www-data"



- Run "ls -l /var/www/html" and see what the permissions are. it should be 775 or "drwxrwxr-x"
- Change the permissions to 775, using sudo chmod 775 /var/www/html

- Run "ls -l /var/www/html/index.html" to see if the permission on the files are 664 or "-rw-rw-r--"

The screenshot shows a Windows desktop environment. In the center is a terminal window titled 'Challenge 1: Configure your Server' with the command 'ls -l /var/www/html' run, showing file permissions. To the right of the terminal is a calendar for September 2021, highlighting the 2nd. The taskbar at the bottom shows various application icons.

```
lkdw6@lokesh-7830:~$ sudo usermod -a -G www-data lkdw6
[sudo] password for lkdw6:
lkdw6@lokesh-7830:~$ ls -l /var/www/html
total 16
-rw-rw-r-- 1 lkdw6 lkdw6 13 Aug 30 18:08 index.html
-rw-rw-r-- 1 lkdw6 www-data 11321 Aug 30 17:20 index-old.html
lkdw6@lokesh-7830:~$ ls -l /var/www/html/index.html
-rw-rw-r-- 1 lkdw6 lkdw6 13 Aug 30 18:08 /var/www/html/index.html
lkdw6@lokesh-7830:~$
```

- Create a new index.html file and put the default html in other file.
- The default html page has a lot of information on apache, config files, etc.

Step 11: Create a Hello world page by replacing default HTML

- Created a demo html file.
- Loaded the file inside w3 validator and checked for any errors.

The screenshot shows a browser window with the Nu Html Checker tool. The main area displays the results of an HTML validation, stating 'Document checking completed. No errors or warnings to show.' Below this, there is a note about the parser used and execution time. At the bottom of the checker interface, there is a link to 'About this checker' and 'Report an issue'. To the right of the checker is a calendar for September 2021, with the 2nd highlighted. The taskbar at the bottom shows various application icons.

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for index.html

Checker Input

Show source outline image report Options...

Check by No file chosen

Uploaded files with .xhtml or .xht extensions are parsed using the XML parser.

Document checking completed. No errors or warnings to show.

Used the HTML parser.
Total execution time 7 milliseconds.

[About this checker](#) • [Report an issue](#) • Version: 21.9.2

Thursday, September 2

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- Checked the errors line by line by inserting text

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change.

Showing results for contents of text-input area

Checker Input

Show source outline image report Options...

Check by css

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
    <title>Lokesh Homepage</title>
  </head>
  <style>
    h1 {color: orange; text-align: center;}
    body {
      background-color: skyblue;
    }
    /* Style taken from https://jsfiddle.net/mnakoajk/6 */
    p {
      border: solid 1px #000;
    }
  </style>
```

Use the Message Filtering button below to hide/show particular messages, and to see total counts of errors and warnings.

Document checking completed. No errors or warnings to show.

Source

Thursday, September 2

Su	Mo	Tu	We	Th	Fr	Sa
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12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	1	2
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11:50 PM
9/2/2021

Step 12: The demo of the websites on AWS public domain and personal domain

- AWS public DNS demo

Not secure | ec2-52-91-204-205.compute-1.amazonaws.com

Home

AWS DNS

My Domain

CS 7830 Lets start

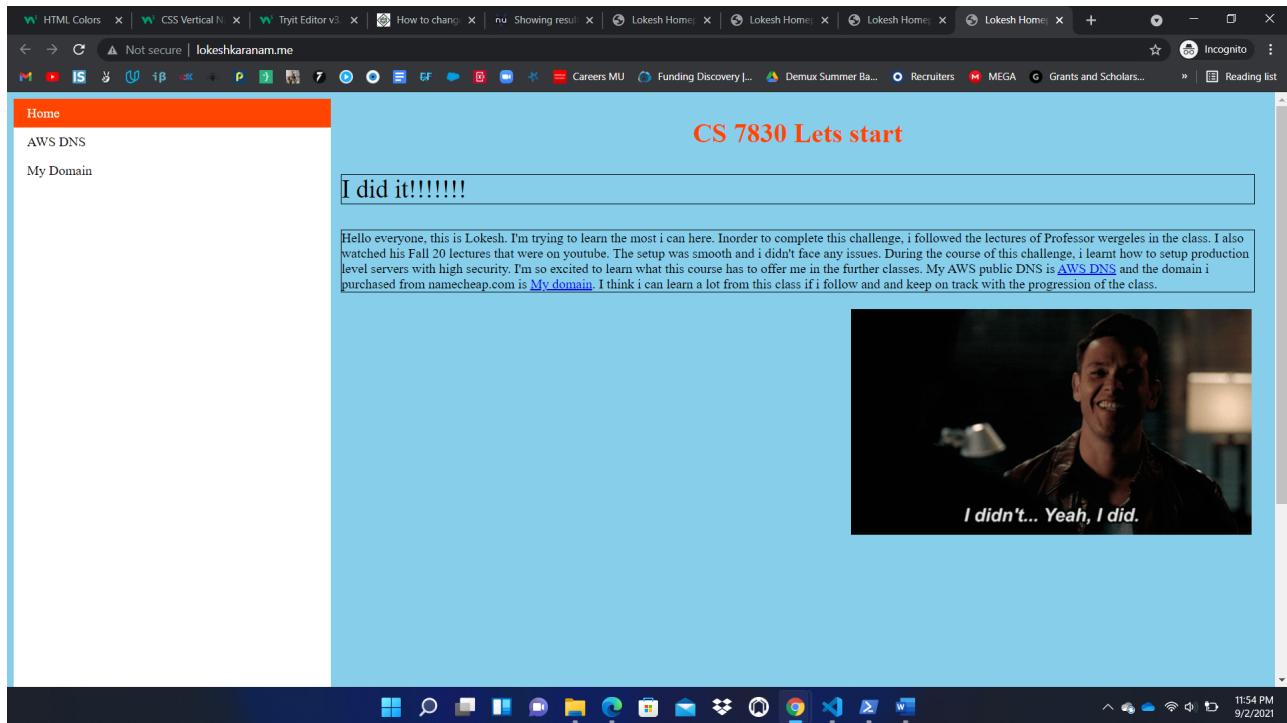
I did it!!!!!!

Hello everyone, this is Lokesh. I'm trying to learn the most i can here. Inorder to complete this challenge, i followed the lectures of Professor wegeles in the class. I also watched his Fall 20 lectures that were on youtube. The setup was smooth and i didn't face any issues. During the course of this challenge, i learnt how to setup production level servers with high security. I'm so excited to learn what this course has to offer me in the further classes. My AWS public DNS is [AWS DNS](#) and the domain i purchased from namecheap.com is [My.domain](#). I think i can learn a lot from this class if i follow and keep on track with the progression of the class.

I didn't... Yeah, I did.

11:54 PM
9/2/2021

- Personal website demo



Below is the code i used for index.html page.

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
    <title>
      Lokesh Homepage
    </title>
  <style>
    h1 {color: orangered; text-align: center;}
    body {
      background-color: skyblue;
    }
    /* Style taken from https://jsfiddle.net/mnakoajk/6 */
    p {
      border: solid 1px #000;
      width: auto;
    }

    ul {
      list-style-type: none;
      margin: 0;
      padding: 0;
      width: 25%;
      background-color: white;
      position: fixed;
      height: 100%;
      overflow: auto;
    }
  </style>

```

```

li a {
  display: block;
  color: #000;
  padding: 8px 16px;
  text-decoration: none;
}

li a.active {
  background-color: orangered;
  color: white;
}

li a:hover:not(.active) {
  background-color: skyblue;
  color: white;
}

img {
  float:right;
  display: inline-block;
  margin:4px 4px 10px 10px;
}

</style>
</head>
<body>
  <ul>
    <li><a class="active" href="#home">Home</a></li>
    <li><a href=" http://ec2-52-91-204-205.compute-1.amazonaws.com"
target="_blank">AWS DNS</a></li>
    <li><a href="http://lokeshkaranam.me" target="_blank">My Domain</a></li>

  </ul>
  <div style="margin-left:25%;padding:1px 16px;height:1000px;">
    <h1>CS 7830 Lets start</h1>
    <p style="font-size: 30px;">I did it!!!!!!</p>
    <p> Hello everyone, this is Lokesh. I'm trying to learn the most i can
here.

      Inorder to complete this challenge, i followed the lectures of Professor
wergeles
      in the class. I also watched his Fall 20 lectures
      that were on youtube. The setup was smooth and i didn't
      face any issues. During the course of this challenge,
      i learnt how to setup production level servers with
      high security. I'm so excited to learn what this
      course has to offer me in the further classes.

      My AWS public DNS is <a href=" http://ec2-52-91-204-205.compute-
1.amazonaws.com">AWS DNS</a>
      and the domain i purchased from namecheap.com is <a href="
http://lokeshkaranam.me">My domain</a>.

      I think i can learn a lot from this class if i
      follow and and keep on track with the progression
      of the class.

    </p>
    

```

```
cid=ecf05e473yj18d8cs09per3rfwf2967vtvirfbrrfgziq9up&rid=giphy.gif" />
</div>

</body>
</html>
```