

**Name** : Istyaque Ahammed  
**SID** : 200240  
**Course** : Advanced Programming (CSE-2113)  
**Date** : 21.04.2022



## Dual Boot [Ubuntu & Windows]

### Implementation:

We had given a task to install the **Ubuntu** operating system on dual boot alongside **Windows 10**. The steps we follow in below.

- Downloaded **Ubuntu 20.04.4 LTS** .iso file, which is the latest version of **ubuntu**.
- Using **Rufus 3.18**, we create a USB bootable pen drive.
- We allocated some free space from our hard disk for installing **Ubuntu**.
- Then we restarted our PC and selected install ubuntu from the boot menu.
- We had to boot manually from BIOS/UEFI.
- Then we followed some procedure  
Install Ubuntu ➡ Keyboard Layout ➡ Normal installation ➡ Install Ubuntu  
alongside windows ➡ Select Time Zone
- After that, we create a User Account.
- Finally, the **Ubuntu** installing completed. Then we had to restart our PC removing the USB pen drive.

### Hindrance & Overcome:

For installing **Ubuntu** we faced some problems. Here we discuss the problem and its solving.

- ✓ For allocating memory we do not have free spaces. So, we need to shrink a volume or delete a volume.
- ✓ After restarting PC did not automatically go to the boot menu. So, manually we have to press the F12 button from the keyboard.

### Advantage:

Let's take a look at the advantages of using ubuntu.

- User-friendly
- Totally free of cost
- It's secure. Say no to the anti-virus.
- Highly customizable
- Supportive Ubuntu community
- Low system requirements
- It's open-source
- Tons of free software

## Configuring Git on Ubuntu

### Implementation:

After installing **Ubuntu** we have to install git and configure the git profile. We have to follow some steps from the **Ubuntu** terminal. Those are shown below.

- `sudo apt install git`
- `git --version`
- `git config --global user.name "istyaque-ahammed"`
- `git config --global user.email "istyaque2040@cseku.ac.bd"`
- `git config --list`

Then we need to show check-in and check-out on git. Here we also followed some steps on the **Ubuntu** terminal.

### Check-in:

- `git init`
- `git status`
- `git add Istyaque.txt`
- `git commit --m "First git file"`
- `git push origin master`
- Verifying user id and password.

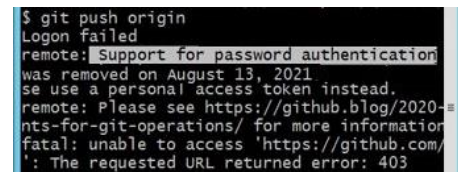
### Check-Out:

- `git init`
- `git clone git@github.com:istyaque-ahammed.git`
- `git pull origin master`
- Verifying user id and password.

### Hindrance & Overcome:

For doing this task we had to face several problems. Problems are discussed below.

- We faced a password authentication problem. So, we used a personal token generator to solve the problem. Then we access it with a token.



```
$ git push origin
Logon failed
remote: Support for password authentication
was removed on August 13, 2021
se use a personal access token instead.
remote: Please see https://github.blog/2020-
nts-for-git-operations/ for more information
fatal: unable to access 'https://github.com/
': The requested URL returned error: 403
```

### Drawbacks:

We have to write so many codes to perform anything. It took a lot of time. We have to memorize all code for each performance. We have to do the same things again and again.

Thank You