

#Markdown and Linux Exercise

##Author - Walisundara Walisundara - BEIRP24A6

###Part 1: Markdown exercise

####Content

- Introduction to Markdown
- Markdown syntax basics
- Introduction to Linux
- Basic command

####Markdown examples

- ******Bold and italic text******
- [Links](https://Assignment.com)
- Here is some `Code block`.

| student ID | Student Name |
|------------|--------------|
| 01 | Nimna |
| 02 | Pramoda |
| 03 | Chaturi |
| 04 | Rashmika |

-Images

####Part 2: Linux Exercise

1. Open a Linux command prompt (terminal).

2. Create a new directory named markdown_linux_assignment with the command:
 - mkdir markdown_linux_assignment

3. Go to the created directory with the command:
 - cd markdown_linux_assignment

4. Create a new empty file named README.md with the command:
 - touch README.md

5. Check that the file was created successfully with the command:
 - ll

6. Open README.md file in a text editor, for example, using a nano editor:
 - nano README.md

7. Add the existing Markdown content to the file and save the changes.

####Part 3: Git version control

1. Initialize a new Git repository in the directory with markdown_linux_assignment command:
 - git init

2. Add README.md file to the Git repository with the command:
 - git add README.md

3. Make your first commit with the command:
 - git commit -m "Initial commit: Added README.md with Markdown and Linux instructions"

####Task submission

1. Return README.md file as an electronic version in the course learning environment.
2. Return also the link to your own Git repository, pointing to file you created (.md).

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Markdown examples

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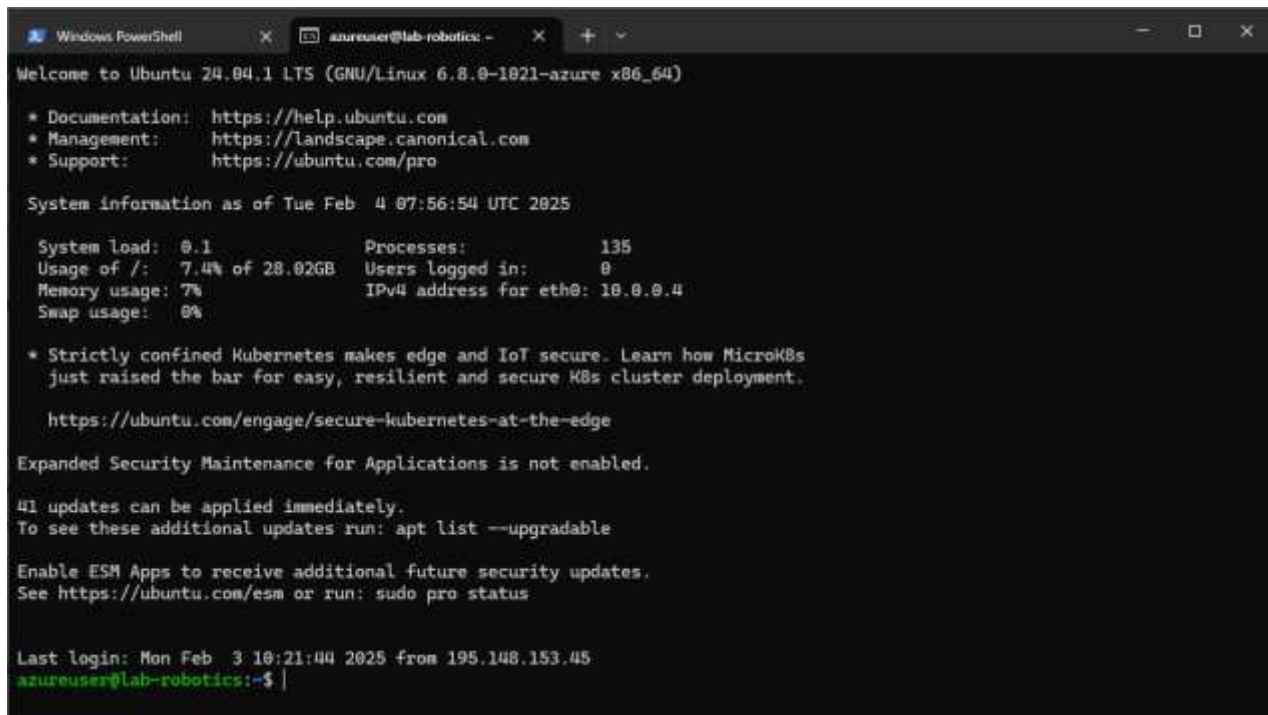
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-Images



Part 2: Linux Exercise

1. Open a Linux command prompt (terminal).



```
Windows PowerShell
azureuser@lab-robotics: ~
Welcome to Ubuntu 24.04.1 LTS (GNU/Linux 6.8.0-1021-azure x86_64)

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

System information as of Tue Feb  4 07:56:54 UTC 2025

System load:  0.1               Processes:    135
Usage of /:   7.4% of 28.02GB   Users logged in: 0
Memory usage: 7%               IPv4 address for eth0: 10.0.0.4
Swap usage:  0%

 * Strictly confined Kubernetes makes edge and IoT secure. Learn how MicroK8s
   just raised the bar for easy, resilient and secure K8s cluster deployment.
   https://ubuntu.com/engage/secure-kubernetes-at-the-edge

Expanded Security Maintenance for Applications is not enabled.

41 updates can be applied immediately.
To see these additional updates run: apt list --upgradable

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

Last login: Mon Feb  3 10:21:44 2025 from 195.148.153.45
azureuser@lab-robotics:~$
```

2. Create a new directory named markdown_linux_assignment with the command:
 - o mkdir markdown_linux_assignment
3. Go to the created directory with the command:
 - o cd markdown_linux_assignment

```
azureuser@lab-robotics:~$ mkdir markdown_linux_assignment
azureuser@lab-robotics:~$ cd markdown_linux_assignment
-bash: cd: markdown_linux_assignment: No such file or directory
azureuser@lab-robotics:~$ cd markdown_linux_assignment
azureuser@lab-robotics:~/markdown_linux_assignment$
```

4. Create a new empty file named README.md with the command:
 - o touch README.md
5. Check that the file was created successfully with the command:
 - o ll

```

azureuser@lab-robotics:~/markdown_linux_harjoitus$ touch README.md
azureuser@lab-robotics:~/markdown_linux_harjoitus$ ll
total 8
drwxrwxr-x 2 azureuser azureuser 4096 Feb  4 08:03 ./
drwxr-x--- 6 azureuser azureuser 4096 Feb  4 07:59 ../
-rw-rw-r-- 1 azureuser azureuser   0 Feb  4 08:03 README.md
azureuser@lab-robotics:~/markdown_linux_harjoitus$ |

```

6. Open README.md file in a text editor, for example, using a nano editor:
 - o nano README.md

Windows PowerShell

azureuser@lab-robotics: ~/me

GNU nano 7.2 README.md

[Read 0 lines]

^G Help ^O Write Out ^W Where Is ^K Cut ^T Execute ^C Location M-U Undo M-A Set Mark
 ^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify ^_ Go To Line M-E Redo M-6 Copy

7. Add the existing Markdown content to the file and save the changes.

Windows PowerShell

azureuser@lab-robotics: ~/me

GNU nano 7.2 README.md *

```

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##Author - Malisundara Walisundara - BEIRP20A6

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Part 3: Git version control

1. Initialize a new Git repository in the directory with markdown_linux_assignment command:
 - git init

```
azureuser@lab-robotics:~/markdown_linux_harjoitus$ git init
hint: Using 'master' as the name for the initial branch. This default branch name
hint: is subject to change. To configure the initial branch name to use in all
hint: of your new repositories, which will suppress this warning, call:
hint:
hint:   git config --global init.defaultBranch <name>
hint:
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this command:
hint:
hint:   git branch -m <name>
Initialized empty Git repository in /home/azureuser/markdown_linux_harjoitus/.git/
azureuser@lab-robotics:~/markdown_linux_harjoitus$ |
```

2. Add README.md file to the Git repository with the command:
 - git add README.md

```
azureuser@lab-robotics:~/markdown_linux_harjoitus$ git add README.md
azureuser@lab-robotics:~/markdown_linux_harjoitus$ |
```

3. Make your first commit with the command:
 - git commit -m "Initial commit: Added README.md with Markdown and Linux instructions"

```
azureuser@lab-robotics:~/markdown_linux_harjoitus$ git commit -m "Initial commit: Added README.md with Markdown and Linux instructions"
[master (root-commit) 5f4d09b] Initial commit: Added README.md with Markdown and Linux instructions
Committer: Ubuntu <azureuser@lab-robotics.2chohaa3322uzk4fkpguxydzib.fx.internal.cloudapp.net>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:

    git config --global --edit

After doing this, you may fix the identity used for this commit with:

    git commit --amend --reset-author

1 file changed, 26 insertions(+)
create mode 100644 README.md
azureuser@lab-robotics:~/markdown_linux_harjoitus$ |
```

Task submission

1. Return README.md file as an electronic version in the course learning environment.
2. Return also the link to your own Git repository, pointing to file you created (.md)