

Documentation of 1st task

Running the basic start commands- history -c && history -w and history

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

System information as of Tue Jan 21 03:14:26 PM UTC 2025

System load:          0.12
Usage of /:            18.4% of 24.44GB
Memory usage:         12%
Swap usage:           0%
Processes:            100
Users logged in:      0
IPv4 address for enp0s3: 10.0.2.15
IPv6 address for enp0s3: fd00::a00:27ff:fe33:1a79

* 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.
0! 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

dinesh@DNESH:~$ history -c && history -w
dinesh@DNESH:~$ history
  1 history
dinesh@DNESH:~$ sudo apt list | grep -i python3.10
(sudo) password for dinesh:
WARNING: apt does not have a stable CLI interface. Use with caution in scripts.

dinesh@DNESH:~$ wget https://www.python.org/ftp/python/3.10.0/Python-3.10.0.tgz
--2025-01-26 09:43:34--  https://www.python.org/ftp/python/3.10.0/Python-3.10.0.tgz
Resolving www.python.org (www.python.org)... 151.101.128.223, 151.101.0.223, 151.101.192.223, ...
Connecting to www.python.org (www.python.org)|151.101.128.223|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 25007016 (24M) [application/octet-stream]
Saving to: 'Python-3.10.0.tgz'

Python-3.10.0.tgz      100%[=====] 25.05M  1.60MB/s   in 15s

2025-01-26 09:43:34 (1.23 MB/s) - 'Python-3.10.0.tgz' saved [25007016/25007016]

dinesh@DNESH:~$
```

Downloading Python Tarball

```
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--2025-01-26 09:43:34--  https://www.python.org/ftp/python/3.10.0/Python-3.10.0.tgz
Resolving www.python.org (www.python.org)... 151.101.128.223, 151.101.0.223, 151.101.192.223, ...
Connecting to www.python.org (www.python.org)|151.101.128.223|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 25007016 (24M) [application/octet-stream]
Saving to: 'Python-3.10.0.tgz'

Python-3.10.0.tgz      100%[=====] 25.05M  1.60MB/s   in 15s

2025-01-26 09:43:34 (1.23 MB/s) - 'Python-3.10.0.tgz' saved [25007016/25007016]

dinesh@DNESH:~$ tar -zxvf Python-3.10.0.tar.gz
```

Extracting the Tarball

```

Usage of /: 19.4k of 24.40GB
Memory usage: 12X
Deno usage: 6X
Processes: 180
Users logged in: 0
IPv4 address for enp0s3: 19.8.2.15
IPv6 address for enp0s3: fd00::aawc7f1f33:1a79

# Strictly confined Kubernetes makes edge and IoT secure. Learn how Microsoft
# 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.

No 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

linens@NODESSH:~$ history -c && history -w
linens@NODESSH:~$ history
  1 history
linens@NODESSH:~$ sudo apt list | grep -i python3.10
(sudo) password for linens:

WARNING: apt does not have a stable CLI interface. Use with caution in scripts.

linens@NODESSH:~$ apt https://www.python.org/files/python3.10.0/python3.10.0.tgz
2025-01-26 09:43:14 ~ https://www.python.org/files/python3.10.0/python3.10.0.tgz
Resolving www.python.org (www.python.org) [51.191.128.223, 51.191.19.4, 223, [51.191.132.223, ...
Connecting to www.python.org (www.python.org) [51.191.128.223]:443... connected.
HTTP request sent, awaiting response... 200 OK
Unpacking local (application/octet-stream)
Saving to: /python3.10.0.tgz

python3.10.0.tgz
100%[.....] 23.65M 1.66MB/s in 19s

2025-01-26 09:43:34 (1.23 MB/s) ~ 'python3.10.0.tgz' saved [25067076/25067016]

linens@NODESSH:~$ tar -zxvf Python-3.10.0.tar.gz
tar (Child): Python-3.10.0.tar.gz: Cannot open: No such file or directory
tar (Child): Error is not recoverable: exiting now
tar: Child returned status 2
tar: Error is not recoverable: exiting now
linens@NODESSH:~$ ls
doc.py  python3.10  Python-3.10.0.tgz  Python-3.10.12  Python-3.10.12.tgz  Python-3.10.0  Python-3.10.0.tar.gz  snap  test1.py

```

Navigating into the directory of python3.10 and created destination folder

[illegible]

Now started configuration using `configure` and `make` commands and installed python.

[illegible][illegible]

```
If you want a release build with all stable optimizations active (PGO, etc),
please run ./configure --enable-optimizations

Diederik@THESE:~/Python-3.10.0$ make
```

[illegible][illegible]

[illegible][illegible][illegible]

[illegible][illegible]

Navigated to openssl and configured, installed the files

[illegible]

[illegible][illegible]

Started Rebuilding Python along with SSL now again from scratch using previously used functions.

[illegible]

[illegible][illegible]

[illegible][illegible]


```

1 history
2 sudo apt list | grep -i python3.10
3 wget https://www.python.org/ftp/python/3.10.0/Python-3.10.0.tgz
4 tar -zxvf Python-3.10.0.tar.gz
5 ls
6 tar -zxvf Python-3.10.0.tgz
7 cd Python-3.10.0
8 mkdir ~/.localpython
9 ./configure --prefix=/home/Dinesh/.localpython
10 make
11 make install
12 ~/.localpython/bin/python3.10 --version
13 ~/.localpython/bin/python3.10 -m pip --version
14 ~/.localpython/bin/python3.10 -m venv myenv
15 source myenv/bin/activate
16 python --version
17 pip --version
18 pip install label-studio
19 deactivate
20 wget https://www.openssl.org/source/openssl-1.1.1.tar.gz
21 tar -zxvf openssl-1.1.1.tar.gz
22 cd openssl-1.1.1
23 ./config --prefix=$HOME/.localopenssl --openssldir=$HOME/.localopenssl
24 make -j$(nproc)
25 make install
26 cd ..
27*
28 cd..
29 cd openssl-1.1.1
30 ~/.localpython/bin/python3.10 -m ssl
31 ./config --prefix=$HOME/.localopenssl --openssldir=$HOME/.localopenssl
32 make -j$(nproc)
33 make install
34 $HOME/.localopenssl/bin/openssl version
35 $HOME/.localopenssl/bin/openssl version
36 export LD_LIBRARY_PATH=$HOME/.localopenssl/lib:$LD_LIBRARY_PATH
37 $HOME/.localopenssl/bin/openssl version
38 cd ..
39 make clean
40 ./configure --prefix=$HOME/.localpython --with-openssl=$HOME/.localopenssl
41 make -j$(nproc)
42 make altinstall
43 $HOME/.localpython/bin/python3.10 -m ssl
44 $HOME/.localpython/bin/python3.10 -m venv myenv
45 source myenv/bin/activate
46 pip install label-studio
47 history > user_history.txt
48 sftp Dinesh@linux_host
49 scp Dinesh@linux_host:/home/Dinesh/Python3.10/user_history.txt D:SAI_A3/user_history.txt
:

```

This is the history Of all commands from the start.

```

39 make clean
40 ./configure --prefix=$HOME/.localpython --with-openssl=$HOME/.localopenssl
41 make -j$(nproc)
42 make altinstall
43 $HOME/.localpython/bin/python3.10 -m ssl
44 $HOME/.localpython/bin/python3.10 -m venv myenv
45 source myenv/bin/activate
46 pip install label-studio
47 history > user_history.txt
48 sftp Dinesh@linux_host
49 scp Dinesh@linux_host:/home/Dinesh/Python3.10/user_history.txt D:SAI_A3/user_history.txt
50 scp Dinesh@linux_host:/home/Dinesh/Python3.10/user_history.txt "C:/Users/sivak/user_history.txt"
51 lp a
52 scp Dinesh@inet 127.0.0.1:/home/Dinesh/Python3.10/user_history.txt "C:/Users/sivak/user_history.txt"
53 scp Dinesh@127.0.0.1:/home/Dinesh/Python3.10/user_history.txt "C:/Users/sivak/user_history.txt"
54 scp Dinesh@127.0.0.1:/home/Dinesh/Python3.10/user_history.txt "C:/Users/sivak/user_history.txt"
55 scp Dinesh@inet 127.0.0.1:/home/Dinesh/Python3.10/user_history.txt "D:/SAI_A3/user_history.txt"
56 scp Dinesh@127.0.0.1:/home/Dinesh/Python3.10/user_history.txt "D:/SAI_A3/user_history.txt"
57 sudo apt-get install git
58 git config --global user.name "DineshSK2005"
59 git config --global user.email "k.dinesh13412@gmail.com"
60 git init
61 git remote add origin https://github.com/DineshSK2005/STT_AI_A3.git
62 git add user_history.txt
63 git commit -m "Added user history"
64 git push -u origin main
65 git push -u origin master
66 git init
67 git branch -M main
68 git remote add origin https://github.com/DineshSK2005/STT_AI_A3.git
69 git add user_history.txt
70 git commit -m
71 git commit -m "Added user history"
72 git push -u origin main
73 git init
74 git commit -m "ok"
75 history > user_history.txt
76 cat user_history.txt
77 find ~ -name "user_history.txt"
78 git init
79 git remote add origin https://github.com/DineshSK2005/STT_AI_A3.git
80 git add user_history.txt
81 git commit -m "ok"
82 git push -u origin master
83 git push -u origin main
84 git push -u origin master
85 git push -u origin main
86 history
87 history | less
(END)

```

[illegible][illegible][illegible]

Set up of Label-studio

We set up Label studio On windows using pip install label-studio and ran it

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\sivak\AppData\Roaming\Python\Python310\Scripts> ./label-studio
=> Database and media directory: C:\Users\sivak\AppData\Local\label-studio\label-studio
=> Static URL is set to: /static/
=> Database and media directory: C:\Users\sivak\AppData\Local\label-studio\label-studio
=> Static URL is set to: /static/
Read environment variables from: C:\Users\sivak\AppData\Local\label-studio\label-studio\.env
get 'SECRET_KEY' casted as '<class 'str'>' with default ''
Starting new HTTPS connection (1): pypi.org:443
https://pypi.org:443 "GET /pypi/label-studio/json HTTP/1.1" 200 33651
January 26, 2025 - 23:01:12
Django version 4.2.18, using settings 'label_studio.core.settings.label_studio'
Starting development server at http://0.0.0.0:8080/
Quit the server with CTRL-BREAK.

[2025-01-26 23:01:15,863] [django.server::log_message::212] [INFO] "GET / HTTP/1.1" 302 0
[2025-01-26 23:01:15,863] [django.server::log_message::212] [INFO] "GET / HTTP/1.1" 302 0
[2025-01-26 23:01:17,449] [django.server::log_message::212] [INFO] "GET /projects/ HTTP/1.1" 200 33140
[2025-01-26 23:01:17,449] [django.server::log_message::212] [INFO] "GET /projects/ HTTP/1.1" 200 33140
[2025-01-26 23:01:17,638] [django.server::log_message::212] [INFO] "GET /react-app/main.css?v=df34d5 HTTP/1.1" 200 97894
[2025-01-26 23:01:17,638] [django.server::log_message::212] [INFO] "GET /react-app/main.css?v=df34d5 HTTP/1.1" 200 97894
[2025-01-26 23:01:17,980] [django.server::log_message::212] [INFO] "GET /react-app/runtime.js?v=df34d5 HTTP/1.1" 200 614
[2025-01-26 23:01:17,980] [django.server::log_message::212] [INFO] "GET /react-app/runtime.js?v=df34d5 HTTP/1.1" 200 614
[2025-01-26 23:01:17,999] [django.server::log_message::212] [INFO] "GET /static/css/main_03e0d1342ad6.css HTTP/1.1" 200
```

