

Lab Assignment - 3

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Task 1

1. Sudo apt list | grep -i python3.10

```
soham@935:~$ sudo apt list | grep -i python3.10
WARNING: apt does not have a stable CLI interface. Use with caution in scripts.
soham@935:~$
```

2. Installing python using tarball and unzipping it and configuring it using these commands.
sudo ./configure --enable-optimizations
make
sudo make altinstall

```
soham@935:~$ sudo apt list | grep -i python3.10
WARNING: apt does not have a stable CLI interface. Use with caution in scripts.

soham@935:~$ wget https://www.python.org/ftp/python/3.10.0/Python-3.10.0.tgz
--2025-01-26 10:25:13-- https://www.python.org/ftp/python/3.10.0/Python-3.10.0.tgz
Resolving www.python.org (www.python.org)... 199.232.20.223, 2a04:4e42:42::223
Connecting to www.python.org (www.python.org)[199.232.20.223]:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 25007016 (24M) [application/octet-stream]
Saving to: 'Python-3.10.0.tgz.1'

Python-3.10.0.tgz.1      100%[=====] 23.85M  733KB/s   in 41s

2025-01-26 10:25:54 (591 KB/s) - 'Python-3.10.0.tgz.1' saved [25007016/25007016]

soham@935:~$
```

```
Python-3.10.0/Programs/
Python-3.10.0/Programs/README
Python-3.10.0/Programs/python.c
Python-3.10.0/Programs/_testembed.c
Python-3.10.0/Programs/_freeze_importlib.c
soham@935:~$ cd Python-3.10.0
soham@935:~/Python-3.10.0$ sudo apt update
Hit:1 http://ports.ubuntu.com/ubuntu-ports noble InRelease
Get:2 http://ports.ubuntu.com/ubuntu-ports noble-updates InRelease [126 kB]
Get:3 http://ports.ubuntu.com/ubuntu-ports noble-backports InRelease [126 kB]
Get:4 http://ports.ubuntu.com/ubuntu-ports noble-security InRelease [126 kB]
Get:5 http://ports.ubuntu.com/ubuntu-ports noble-updates/main arm64 Packages [765 kB]
Get:6 http://ports.ubuntu.com/ubuntu-ports noble-updates/main Translation-en [178 kB]
Get:7 http://ports.ubuntu.com/ubuntu-ports noble-updates/main arm64 Components [148 kB]
Get:8 http://ports.ubuntu.com/ubuntu-ports noble-updates/main Icons (48x48) [31.3 kB]
Get:9 http://ports.ubuntu.com/ubuntu-ports noble-updates/main Icons (64x64) [44.5 kB]
Get:10 http://ports.ubuntu.com/ubuntu-ports noble-updates/restricted arm64 Packages [632 kB]
Get:11 http://ports.ubuntu.com/ubuntu-ports noble-updates/restricted Translation-en [113 kB]
Get:12 http://ports.ubuntu.com/ubuntu-ports noble-updates/restricted arm64 Components [212 B]
Get:13 http://ports.ubuntu.com/ubuntu-ports noble-updates/universe arm64 Packages [950 kB]
Get:14 http://ports.ubuntu.com/ubuntu-ports noble-updates/universe Translation-en [243 kB]
Get:15 http://ports.ubuntu.com/ubuntu-ports noble-updates/universe arm64 Components [312 kB]
Get:16 http://ports.ubuntu.com/ubuntu-ports noble-updates/universe Icons (48x48) [184 kB]
Get:17 http://ports.ubuntu.com/ubuntu-ports noble-updates/universe Icons (64x64) [289 kB]
Get:18 http://ports.ubuntu.com/ubuntu-ports noble-updates/multiverse arm64 Components [212 B]
Get:19 http://ports.ubuntu.com/ubuntu-ports noble-backports/main arm64 Components [200 B]
Get:20 http://ports.ubuntu.com/ubuntu-ports noble-backports/restricted arm64 Components [212 B]
Get:21 http://ports.ubuntu.com/ubuntu-ports noble-backports/universe arm64 Components [17.7 kB]
Get:22 http://ports.ubuntu.com/ubuntu-ports noble-backports/multiverse arm64 Components [212 B]
Get:23 http://ports.ubuntu.com/ubuntu-ports noble-security/main arm64 Components [5,696 B]
Get:24 http://ports.ubuntu.com/ubuntu-ports noble-security/restricted arm64 Components [212 B]
Get:25 http://ports.ubuntu.com/ubuntu-ports noble-security/universe arm64 Components [52.0 kB]
Get:26 http://ports.ubuntu.com/ubuntu-ports noble-security/multiverse arm64 Components [212 B]
Fetched 4,344 kB in 5s (821 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
115 packages can be upgraded. Run 'apt list --upgradable' to see them.
soham@935:~/Python-3.10.0$ sudo apt install built-essential
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
E: Unable to locate package built-essential
soham@935:~/Python-3.10.0$ sudo apt install net-tools
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
net-tools is already the newest version (2.10-0.1ubuntu4).
0 upgraded, 0 newly installed, 0 to remove and 115 not upgraded.
soham@935:~/Python-3.10.0$
```

```

gcc -shared -fno-semantic-interposition build/temp.linux-aarch64-3.10/home/soham0935/Python-3.10.0/Modules/xxlimited_35.o -L/usr/lib/aarch64-linux-gnu -L/usr/local/lib -o build/lib.linux-aarch64-3.10/xxlimited_35.cpython-310-aarch64-linux-gnu.so
building '_ctypes' extension
gcc -fPIC -Wno-unused-result -Wsign-compare -DNDEBUG -g -fwrapv -O3 -Wall -fno-semantic-interposition -std=c99 -Wextra -Wno-unused-result -Wno-unused-parameter -Wno-missing-field-initializers -Werror=implicit-function-declaration -fvisibility=hidden -fprofile-use -fprofile-correction -I./Include/internal -I./Include -I./usr/include/aarch64-linux-gnu -I/usr/local/include -I/home/soham0935/Python-3.10.0/Include -I/home/soham0935/Python-3.10.0 -c /home/soham0935/Python-3.10.0/Modules/_ctypes/_ctypes.c -o build/temp.linux-aarch64-3.10/home/soham0935/Python-3.10.0/Modules/_ctypes/_ctypes.o -DPy_BUILD_CORE_MODULE
/home/soham0935/Python-3.10.0/Modules/_ctypes/_ctypes.c:107:10: fatal error: ffi.h: No such file or directory
  107 | #include <ffi.h>
      |          ^~~~~~
compilation terminated.

Python build finished successfully!
The necessary bits to build these optional modules were not found:
_bz2          _curses          _curses_panel
_dbm          _gdbm            _hashlib
_lzma         _sqlite3          _ssl
_tkinter     _uuid            nis
readline     zlib
To find the necessary bits, look in setup.py in detect_modules() for the module's name.

The following modules found by detect_modules() in setup.py, have been
built by the Makefile instead, as configured by the Setup files:
_abc          pwd                time

Failed to build these modules:
_ctypes

Could not build the ssl module!
Python requires a OpenSSL 1.1.1 or newer

running build_scripts
copying and adjusting /home/soham0935/Python-3.10.0/Tools/scripts/pydoc3 -> build/scripts-3.10
copying and adjusting /home/soham0935/Python-3.10.0/Tools/scripts/idle3 -> build/scripts-3.10
copying and adjusting /home/soham0935/Python-3.10.0/Tools/scripts/2to3 -> build/scripts-3.10
changing mode of build/scripts-3.10/pydoc3 from 664 to 775
changing mode of build/scripts-3.10/idle3 from 664 to 775
changing mode of build/scripts-3.10/2to3 from 664 to 775
renaming build/scripts-3.10/pydoc3 to build/scripts-3.10/pydoc3.10
renaming build/scripts-3.10/idle3 to build/scripts-3.10/idle3.10
renaming build/scripts-3.10/2to3 to build/scripts-3.10/2to3.10
gcc -o -Wno-unused-result -Wsign-compare -DNDEBUG -g -fwrapv -O3 -Wall -fno-semantic-interposition -std=c99 -Wextra -Wno-unused-result -Wno-unused-parameter -Wno-missing-field-initializers -Werror=implicit-function-declaration -fvisibility=hidden -fprofile-use -fprofile-correction -I./Include/internal -I./Include -I./usr/include/aarch64-linux-gnu -I/usr/local/include -I/home/soham0935/Python-3.10.0/Include -I/home/soham0935/Python-3.10.0 -c /home/soham0935/Python-3.10.0/Programs/_testembed.c
gcc -fno-semantic-interposition -Xlinker -export-dynamic -o Programs/_testembed Programs/_testembed.o libpython3.10.a -lcrypt -ldl -lm -lm
make[1]: Leaving directory '/home/soham0935/Python-3.10.0'
soham0935@soham0935:~/Python-3.10.0$

```

3. Also installing some important libraries.

sudo apt install -y build-essential zlib1g-dev libffi-dev libssl-dev libbz2-dev
libreadline-dev libsqlite3-dev

```

soham0935@soham0935:~/Python-3.10.0$ sudo apt list | grep -i python3.10

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

soham0935@soham0935:~/Python-3.10.0$ openssl version
OpenSSL 3.0.13 30 Jan 2024 (Library: OpenSSL 3.0.13 30 Jan 2024)
soham0935@soham0935:~/Python-3.10.0$ sudo apt install -y build-essential zlib1g-dev libffi-dev libssl-dev libbz2-dev libreadline-dev libsqlite3-dev
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
build-essential is already the newest version (12.10ubuntu1).
The following additional packages will be installed:
  bzip2-doc libcurses-dev
Suggested packages:
  ncurses-doc readline-doc sqlite3-doc libssl-doc
The following NEW packages will be installed:
  bzip2-doc libbz2-dev libffi-dev libcurses-dev libreadline-dev libsqlite3-dev libssl-dev zlib1g-dev
0 upgraded, 8 newly installed, 0 to remove and 91 not upgraded.
Need to get 5,303 kB of archives.
After this operation, 22.2 MB of additional disk space will be used.
Get:1 http://ports.ubuntu.com/ubuntu-ports noble-updates/main arm64 bzip2-doc all 1.0.8-5.1build0.1 [499 kB]
Get:2 http://ports.ubuntu.com/ubuntu-ports noble-updates/main arm64 libbz2-dev arm64 1.0.8-5.1build0.1 [35.8 kB]
Get:3 http://ports.ubuntu.com/ubuntu-ports noble/main arm64 libcurses-dev arm64 6.4+20240113-1ubuntu2 [385 kB]
Get:4 http://ports.ubuntu.com/ubuntu-ports noble/main arm64 libreadline-dev arm64 8.2-4build1 [177 kB]
Get:5 http://ports.ubuntu.com/ubuntu-ports noble/main arm64 libsqlite3-dev arm64 3.45.1-1ubuntu2 [916 kB]
Get:6 http://ports.ubuntu.com/ubuntu-ports noble-updates/main arm64 libssl-dev arm64 3.0.13-0ubuntu3.4 [2,337 kB]
Get:7 http://ports.ubuntu.com/ubuntu-ports noble-updates/main arm64 zlib1g-dev arm64 1:1.3.dfsg-3.1ubuntu2.1 [894 kB]
Get:8 http://ports.ubuntu.com/ubuntu-ports noble/main arm64 libffi-dev arm64 3.4.6-1build1 [59.5 kB]
Fetched 5,303 kB in 3s (1,870 kB/s)
Selecting previously unselected package bzip2-doc.
(Reading database ... 160198 files and directories currently installed.)
Preparing to unpack .../0-bzip2-doc-1.0.8-5.1build0.1.all.deb ...
Unpacking bzip2-doc (1.0.8-5.1build0.1) ...
Selecting previously unselected package libbz2-dev:arm64.
Preparing to unpack .../1-libbz2-dev-1.0.8-5.1build0.1_arm64.deb ...
Unpacking libbz2-dev:arm64 (1.0.8-5.1build0.1) ...
Selecting previously unselected package libcurses-dev:arm64.
Preparing to unpack .../2-libcurses-dev-6.4+20240113-1ubuntu2_arm64.deb ...
Unpacking libcurses-dev:arm64 (6.4+20240113-1ubuntu2) ...
Selecting previously unselected package libreadline-dev:arm64.
Preparing to unpack .../3-libreadline-dev-8.2-4build1_arm64.deb ...
Unpacking libreadline-dev:arm64 (8.2-4build1) ...
Selecting previously unselected package libsqlite3-dev:arm64.
Preparing to unpack .../4-libsqlite3-dev-3.45.1-1ubuntu2_arm64.deb ...
Unpacking libsqlite3-dev:arm64 (3.45.1-1ubuntu2) ...
Selecting previously unselected package libssl-dev:arm64.
Preparing to unpack .../5-libssl-dev-3.0.13-0ubuntu3.4_arm64.deb ...
Unpacking libssl-dev:arm64 (3.0.13-0ubuntu3.4) ...
Progress: [ 33%] [#####]

```

4. Making a pip environment.

Python3 -m venv myenv

```
changing mode of /usr/local/lib/python3.10/lib-dynload/_opcode.cpython-310-aarch64-linux-gnu.so to 755
changing mode of /usr/local/lib/python3.10/lib-dynload/binascii.cpython-310-aarch64-linux-gnu.so to 755
changing mode of /usr/local/lib/python3.10/lib-dynload/testcapi.cpython-310-aarch64-linux-gnu.so to 755
changing mode of /usr/local/lib/python3.10/lib-dynload/ to 755
changing mode of /usr/local/lib/python3.10/lib-dynload/_pycache_ to 755
running install_scripts
copying build/scripts-3.10/idle3.10 -> /usr/local/bin
copying build/scripts-3.10/pydoc3.10 -> /usr/local/bin
copying build/scripts-3.10/2to3-3.10 -> /usr/local/bin
changing mode of /usr/local/bin/idle3.10 to 755
changing mode of /usr/local/bin/pydoc3.10 to 755
changing mode of /usr/local/bin/2to3-3.10 to 755
rm /usr/local/lib/python3.10/lib-dynload/_sysconfigdata__linux_aarch64-linux-gnu.py
rm -r /usr/local/lib/python3.10/lib-dynload/_pycache_
/usr/bin/install -c -m 644 ./Misc/python.man \
/usr/local/share/man/man1/python3.10.1
if test "xupgrade" != "xno" ; then \
    case upgrade in \
        upgrade) ensurepip="--altinstall --upgrade" ;; \
        install|*) ensurepip="--altinstall" ;; \
    esac; \
    ./python -E -m ensurepip \
    $ensurepip --root=/ ; \
fi
WARNING: Value for scheme.headers does not match. Please report this to <https://github.com/pypa/pip/issues/10151>
distutils: /usr/local/include/python3.10/UNKNOWN
sysconfig: /home/soham0935/Python-3.10.0/Include/UNKNOWN
WARNING: Additional context:
user = False
home = None
root = '/'
prefix = None
Looking in links: /tmp/tmp_3dfjanc
Processing /tmp/tmp_3dfjanc/setuptools-57.4.0-py3-none-any.whl
Processing /tmp/tmp_3dfjanc/pip-21.2.3-py3-none-any.whl
Installing collected packages: setuptools, pip
WARNING: Value for scheme.headers does not match. Please report this to <https://github.com/pypa/pip/issues/10151>
distutils: /usr/local/include/python3.10/setuptools
sysconfig: /home/soham0935/Python-3.10.0/Include/setuptools
WARNING: Value for scheme.headers does not match. Please report this to <https://github.com/pypa/pip/issues/10151>
distutils: /usr/local/include/python3.10/pip
sysconfig: /home/soham0935/Python-3.10.0/Include/pip
Successfully installed pip-21.2.3 setuptools-57.4.0
WARNING: Running pip as the 'root' user can result in broken permissions and conflicting behaviour with the system package manager. It is recommended to use a v
irtual environment instead: https://pip.pypa.io/warnings/venv
soham0935@soham0935:~/Python-3.10.0$ ./python3 -m venv myenv
-bash: ./python3: No such file or directory
soham0935@soham0935:~/Python-3.10.0$ python3 -m venv myenv
soham0935@soham0935:~/Python-3.10.0$ python3 -m venv myenv
soham0935@soham0935:~/Python-3.10.0$ source myenv/bin/activate_
```

5. After activating it, we install label-studio

pip install label-studio

```
rm /usr/local/lib/python3.10/lib-dynload/_sysconfigdata__linux_aarch64-linux-gnu.py
rm -r /usr/local/lib/python3.10/lib-dynload/_pycache_
/usr/bin/install -c -m 644 ./Misc/python.man \
/usr/local/share/man/man1/python3.10.1
if test "xupgrade" != "xno" ; then \
    case upgrade in \
        upgrade) ensurepip="--altinstall --upgrade" ;; \
        install|*) ensurepip="--altinstall" ;; \
    esac; \
    ./python -E -m ensurepip \
    $ensurepip --root=/ ; \
fi
WARNING: Value for scheme.headers does not match. Please report this to <https://github.com/pypa/pip/issues/10151>
distutils: /usr/local/include/python3.10/UNKNOWN
sysconfig: /home/soham0935/Python-3.10.0/Include/UNKNOWN
WARNING: Additional context:
user = False
home = None
root = '/'
prefix = None
Looking in links: /tmp/tmp_3dfjanc
Processing /tmp/tmp_3dfjanc/setuptools-57.4.0-py3-none-any.whl
Processing /tmp/tmp_3dfjanc/pip-21.2.3-py3-none-any.whl
Installing collected packages: setuptools, pip
WARNING: Value for scheme.headers does not match. Please report this to <https://github.com/pypa/pip/issues/10151>
distutils: /usr/local/include/python3.10/setuptools
sysconfig: /home/soham0935/Python-3.10.0/Include/setuptools
WARNING: Value for scheme.headers does not match. Please report this to <https://github.com/pypa/pip/issues/10151>
distutils: /usr/local/include/python3.10/pip
sysconfig: /home/soham0935/Python-3.10.0/Include/pip
Successfully installed pip-21.2.3 setuptools-57.4.0
WARNING: Running pip as the 'root' user can result in broken permissions and conflicting behaviour with the system package manager. It is recommended to use a v
irtual environment instead: https://pip.pypa.io/warnings/venv
soham0935@soham0935:~/Python-3.10.0$ ./python3 -m venv myenv
-bash: ./python3: No such file or directory
soham0935@soham0935:~/Python-3.10.0$ python3 -m venv myenv
soham0935@soham0935:~/Python-3.10.0$ python3 -m venv myenv
soham0935@soham0935:~/Python-3.10.0$ source myenv/bin/activate
(myenv) soham0935@soham0935:~/Python-3.10.0$ pip --version
pip 24.0 from /home/soham0935/Python-3.10.0/myenv/lib/python3.12/site-packages/pip (python 3.12)
(myenv) soham0935@soham0935:~/Python-3.10.0$ pip install label-studio
Collecting label-studio
  Downloading label_studio-1.15.0-py3-none-any.whl.metadata (14 kB)
Collecting Django<4.3.0,>=4.2.13 (from label-studio)
  Downloading Django-4.2.18-py3-none-any.whl.metadata (4.1 kB)
Collecting appdirs>=1.4.3 (from label-studio)
  Downloading appdirs-1.4.4-py2.py3-none-any.whl.metadata (9.0 kB)
Collecting attr==0.3.1 (from label-studio)
  Downloading attr-0.3.1.tar.gz (1.7 kB)
Installing build dependencies ... |
```

6. Starting label studio

```
Created wheel for drf-generators: filename=drf_generators-0.3.0-py2.py3-none-any.whl size=9831 sha256=24fca288c7355eb23324958d148f76451d0e0d8f87e8de9d3935982
b8827e96
Stored in directory: /home/soham0935/.cache/pip/wheels/d9/18/ef/b234d1c6882d016fb1c843f94d251149ec3e707137bb8a85c3
Building wheel for ordered-set (pyproject.toml) ... done
Created wheel for ordered-set: filename=ordered_set-4.0.2-py2.py3-none-any.whl size=8277 sha256=994260edccfe07642aa5fa3e1ba924b74f6f7a6d4bdc3d414f37181046c39c
8b
Stored in directory: /home/soham0935/.cache/pip/wheels/eb/f2/18/4026cab69c3e6a0da5f0b0f4664606f814e23690c8bdfa9b
Building wheel for django-ranged-fileresponse (pyproject.toml) ... done
Created wheel for django-ranged-fileresponse: filename=django_ranged_fileresponse-0.1.2-py3-none-any.whl size=3260 sha256=e391a98368b1796735bef3ec0e841135d375
fia26c7e2234bf228702ba14a6e9
Stored in directory: /home/soham0935/.cache/pip/wheels/36/b3/40/d6cf5ea25409828f26ef93b426ea1878e3ef645dab7482494b
Successfully built attr drf-flex-fields drf-generators ordered-set django-ranged-fileresponse
Installing collected packages: xmljson, webencodings, rules, pytz, pyRFC3339, lockfile, ijson, genson, expiringdict, drf-flex-fields, drf-dynamic-fields, django
-ranged-fileresponse, boto, attr, appdirs, zipp, wrapt, wheel, urllib3, uritemplate, ujson, ua-parser-builtins, tzdata, typing_extensions, tqdm, toml, sqlparse,
sniffio, six, setuptools, semver, rstr, rpsd-py, regex, redis, pyyaml, python-json-logger, pygments, pycparser, pyasn1, psycopg2-binary, protobuf, platformdirs
, Pillow, pathspec, packaging, ordered-set, numpy, mypy_extensions, mdurl, MarkupSafe, lxml, joblib, jmespath, jiter, isort, isodate, inflection, inflect, idna,
h11, grpcio, google-crc32c, dnspython, django-environ, distro, defusedxml, colorama, click, charset-normalizer, certifi, cachetools, attrs, asgiref, argcomplete
e, annotated-types, ua-parser, smart-open, sentry-sdk, rsa, rq, requests, referencing, python-dateutil, pydantic-core, pyasn1-modules, proto-plus, nltk, markdow
n-it-py, lxml-html-clean, launchdarkly-server-sdk, jinja2, importlib-metadata, httpcore, googleapis-common-protos, google-resumable-media, email-validator, Djan
go, deprecated, cffi, bleach, black, anyio, user-agents, rich, requests-mock, pydantic, pandas, opentelemetry-api, jsonschema-specifications, httpx, grpcio-stat
us, google-cloud-audit-log, google-auth, faker, drf-generators, django-rest-framework, django-storages, django-rq, django-model-utils, django-migration-linter, dj
ango-filter, django-extensions, django-debug-toolbar, django-csp, django-cors-headers, django-anoying, cryptography, botocore, azure-core, s3transfer, pyboxen,
openal, jsonschema, humansignal-drf-yasg, grpc-google-iam-v1, google-api-core, django-user-agents, azure-storage-blob, jsf, google-cloud-core, datamodel-code-g
enerator, boto3, label-studio-sdk, google-cloud-storage, google-cloud-appengine-logging, google-cloud-logging, label-studio
Successfully installed Django-4.2.18 MarkupSafe-3.0.2 Pillow-11.1.0 annotated-types-0.7.0 anyio-4.8.0 appdirs-1.4.4 argcomplete-3.5.3 asgiref-3.8.1 attr-0.3.1 a
ttrs-25.1.0 azure-core-1.32.0 azure-storage-blob-12.24.1 black-24.10.0 bleach-5.0.1 boto-2.49.0 boto3-1.36.6 botocore-1.36.6 cachetools-5.5.1 certifi-2024.12.14
cffi-1.17.1 charset-normalizer-3.4.1 click-8.1.8 colorama-0.4.6 cryptography-44.0.0 datamodel-code-generator-0.26.1 defusedxml-0.7.1 deprecated-1.2.17 distro-1
9.0 django-anoying-0.10.6 django-cors-headers-3.5.0 django-csp-3.7 django-debug-toolbar-3.2.1 django-environ-0.10.0 django-extensions-3.2.3 django-filter-2.4.
0 django-migration-linter-5.1.0 django-model-utils-4.1.1 django-ranged-fileresponse-0.1.2 django-rq-2.5.1 django-storages-1.12.3 django-user-agents-0.4.0 django
restframework-3.15.2 dnspython-2.7.0 drf-dynamic-fields-0.3.0 drf-flex-fields-0.9.5 drf-generators-0.3.0 email-validator-2.2.0 expiringdict-1.2.2 faker-35.0.0 g
enson-1.3.0 google-api-core-2.24.0 google-auth-2.38.0 google-cloud-appengine-logging-1.5.0 google-cloud-audit-log-0.3.0 google-cloud-core-2.4.1 google-cloud-log
ging-3.11.3 google-cloud-storage-2.19.0 google-crc32c-1.6.0 google-resumable-media-2.7.2 googleapis-common-protos-1.66.0 grpc-google-iam-v1-0.14.0 grpcio-1.70.0
grpcio-status-1.70.0 h11-0.14.0 httplib2-1.0.7 httpx-0.28.1 humansignal-drf-yasg-1.21.10 idna-3.10 ijson-3.3.0 importlib-metadata-8.5.0 inflect-5.6.2 inf
lection-0.5.1 isodate-0.7.2 isort-5.13.2 jinja2-3.1.5 jiter-0.8.2 jmespath-1.0.1 joblib-1.4.2 jsf-0.11.2 jsonschema-4.23.0 jsonschema-specifications-2024.10.1 l
abel-studio-1.15.0 label-studio-sdk-1.0.8 launchdarkly-server-sdk-8.2.1 lockfile-0.12.2 lxml-5.3.0 lxml-html-clean-0.4.1 markdown-it-py-3.0.0 mdurl-0.1.2 mypy-e
xtensions-1.0.0 nltk-3.9.1 numpy-1.26.4 openal-1.6.0 opentelemetry-api-1.29.0 ordered-set-4.0.2 packaging-24.2 pandas-2.2.3 pathspec-0.12.1 platformdirs-4.3.6
proto-plus-1.25.0 protobuf-5.29.3 psycopg2-binary-2.9.10 pyRFC3339-2.0.1 pyasn1-0.6.1 pyasn1-modules-0.4.1 pyboxen-1.3.0 pycparser-2.22 pydantic-2.10.6 pydantic
-core-2.27.2 pygments-2.19.1 python-dateutil-2.9.0.post0 python-json-logger-2.0.4 pytz-2022.7.1 pyyaml-6.0.2 redis-3.5.3 referencing-0.36.2 regex-2024.11.6 requ
ests-2.32.3 requests-mock-1.12.1 rich-13.9.4 rpsd-py-0.22.3 rq-1.10.1 rsa-4.9 rstr-3.2.2 rules-3.4 s3transfer-0.11.2 semver-3.0.4 sentry-sdk-2.20.0 setuptools-7
5.0.0 six-1.17.0 smart-open-7.1.0 sniffio-1.3.1 sqlparse-0.5.3 toml-0.10.2 tqdm-4.67.1 typing_extensions-4.12.2 tzdata-2025.1 ua-parser-1.0.0 ua-parser-builtins
-0.18.0.post1 ujson-5.10.0 uritemplate-4.1.1 urllib3-1.26.20 user-agents-2.2.0 webencodings-0.5.1 wheel-0.40.0 wrapt-1.17.2 xmljson-0.2.1 zipp-3.21.0
(myenv) soham0935@soham0935:~/Python-3.10.0$ label-studio
> Database and media directory: /home/soham0935/.local/share/label-studio
> Static URL is set to: /static/
> Database and media directory: /home/soham0935/.local/share/label-studio
> Static URL is set to: /static/
/home/soham0935/.local/share/label-studio/.env not found - if you're not configuring your environment separately, check this.
get 'SECRET_KEY' casted as '<class 'str'>' with default ''
Warning: SECRET_KEY not found in environment variables. Will generate a random key.
```

We are getting distutils module error which we are unable to solve and cannot proceed further. That's why we are unable to run label-studio through linux.

```
> Static URL is set to: /static/
Read environment variables from: /home/soham0935/.local/share/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
Traceback (most recent call last):
  File "/home/soham0935/Python-3.10.0/myenv/bin/label-studio", line 8, in <module>
    sys.exit(main())
    ~~~~~^
  File "/home/soham0935/Python-3.10.0/myenv/lib/python3.12/site-packages/label_studio/server.py", line 296, in main
    _setup_env()
  File "/home/soham0935/Python-3.10.0/myenv/lib/python3.12/site-packages/label_studio/server.py", line 35, in _setup_env
    get_wsgi_application()
  File "/home/soham0935/Python-3.10.0/myenv/lib/python3.12/site-packages/django/core/wsgi.py", line 12, in get_wsgi_application
    django.setup(set_prefix=False)
  File "/home/soham0935/Python-3.10.0/myenv/lib/python3.12/site-packages/django/__init__.py", line 24, in setup
    apps.populate(settings.INSTALLED_APPS)
  File "/home/soham0935/Python-3.10.0/myenv/lib/python3.12/site-packages/django/apps/registry.py", line 91, in populate
    app_config = AppConfig.create(entry)
    ~~~~~^
  File "/home/soham0935/Python-3.10.0/myenv/lib/python3.12/site-packages/django/apps/config.py", line 193, in create
    import_module(entry)
  File "/usr/lib/python3.12/importlib/__init__.py", line 90, in import_module
    return _bootstrap._gcd_import(name[level:], package, level)
  File "<frozen importlib._bootstrap>", line 1387, in _gcd_import
  File "<frozen importlib._bootstrap>", line 1360, in _find_and_load
  File "<frozen importlib._bootstrap>", line 1331, in _find_and_load_unlocked
  File "<frozen importlib._bootstrap>", line 935, in _load_unlocked
  File "<frozen importlib._bootstrap_external>", line 995, in exec_module
  File "<frozen importlib._bootstrap>", line 488, in _call_with_frames_removed
  File "/home/soham0935/Python-3.10.0/myenv/lib/python3.12/site-packages/django_rq/__init__.py", line 3, in <module>
    from .decorators import job
  File "/home/soham0935/Python-3.10.0/myenv/lib/python3.12/site-packages/django_rq/decorators.py", line 1, in <module>
    from rq.decorators import job as _rq_job
  File "/home/soham0935/Python-3.10.0/myenv/lib/python3.12/site-packages/rq/__init__.py", line 6, in <module>
    from connections import (Connection, get_current_connection, pop_connection,
  File "/home/soham0935/Python-3.10.0/myenv/lib/python3.12/site-packages/rq/connections.py", line 7, in <module>
    from redis import Redis
  File "/home/soham0935/Python-3.10.0/myenv/lib/python3.12/site-packages/redis/__init__.py", line 1, in <module>
    from redis.client import Redis, StrictRedis
  File "/home/soham0935/Python-3.10.0/myenv/lib/python3.12/site-packages/redis/client.py", line 12, in <module>
    from redis.connection import (ConnectionPool, UnixDomainSocketConnection,
  File "/home/soham0935/Python-3.10.0/myenv/lib/python3.12/site-packages/redis/connection.py", line 2, in <module>
    from distutils.version import StrictVersion
ModuleNotFoundError: No module named 'distutils'
Sentry is attempting to send 2 pending events
Waiting up to 2 seconds
Press Ctrl-C to quit
(myenv) soham0935@soham0935:~/Python-3.10.0$
```