**history -c**: Clears the history in the current shell session.

**history -w**: Overwrites the history file (~/.bash\_history) with the empty history, ensuring the deletion persists.

**Note**: This only affects the current user's history. Other users or active sessions may retain their own histories.

history: Displays the command history for the current session.





**sudo apt list | grep -i python3.10:** Checks if the Python 3.10 package is installed via apt **sudo apt list**: Lists all packages installed via APT.

grep -i python3.10: Case-insensitive search for "python3.10".



Installing net-tools

```
No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.

^[StyJ77#tyserver:"$ python3 -V

Python 3.12.3

ty777@tyserver:"$ _
```

Shows the installed python versions as you can see python 3.10 is not installed

# Downloading and Installing Python 3.10 via Tarball

1. Create a build directory and cd into it

Wget to download the tar file for python

And Unzipping the tar file

Prepares the build environment by checking system dependencies, setting compiler flags, and generating a Makefile

- --prefix=<path>: Specifies the installation directory (e.g., \$HOME/.local/sqlite).
- --enable-optimizations: Optimizes the build (used for Python)

```
ty777@tyserver:~/python_build$ tar -xzf Python-3.10.0.tgz
ty777@tyserver:~/python_build$ cd Python-3.10.0
ty777@tyserver:~/python_build/Python-3.10.0$ ./configure --enable-optimizations --prefix=$HOME/.local/python-3.10
ty777@tyserver:~/python_build/Python-3.10.0$ ./configure --enable-optimizations --prefix=$HOME/.local/python-3.10
```

```
checking for openssl/ssl.h in /usr/ssl... no
checking for openssl/ssl.h in /usr/local... no
checking for openssl/ssl.h in /usr.local... no
checking for openssl/ssl.h in /usr... no
checking for openssl/ssl.h in /usr... no
checking whether compiling and linking against OpenSSL works... no
checking for --with-openssl-rpath...
checking for --with-builtin-hashlib-hashes... md5, sha1, sha256, sha512, sha3, blake2
checking for --with-experimental-isolated-subinterpreters... no
checking for --with-static-libpython... yes
checking for --disable-test-modules... no
configure: creating ./config.status
config.status: creating Makefile.pre
config.status: creating Misc/python.pc
config.status: creating Misc/python-embed.pc
config.status: creating Misc/python-config.sh
config.status: creating Modules/ld_so_aix
```

#### make

Compiles the source code into binaries using the rules defined in the Makefile.

Note: make -j\$(nproc): Parallel compilation for faster builds.

#### make install

Installs the compiled binaries, libraries, and headers to the directory specified in --prefix.

```
ty777@tyserver:~/python_build/Python-3.10.0$ make -j $(nproc) && make install
Running code to generate profile data (this can take a while):
# First, we need to create a clean build with profile generation
# enabled.
make profile-gen-stamp
make[1]: Entering directory '/home/ty777/python_build/Python-3.10.0'
make clean
make[2]: Entering directory '/home/ty777/python_build/Python-3.10.0'
find . -depth -name '__pycache__' -exec rm -rf {} ';'
find . -name '*.py[co]' -exec rm -f {} ';'
find . -name '*.so[0]' -exec rm -f {} ';'
find . -name '*.so[0]-9]*.[0-9]*' -exec rm -f {} ';'
find . -name '*.so.[0-9]*.[0-9]*' -exec rm -f {} ';'
find build -name 'fficonfig.h' -exec rm -f {} ';' | true
find: 'build': No such file or directory
find build -name '*.py' -exec rm -f {} ';' | true
find: 'build': No such file or directory
```

#### Error because zlib is not installed

```
File "frozen zipisport", line 579, in _get_decompress_func
Oblicationoficro: No mobile named "zlib"

Acting handling of the above exception another exception occurred:

File "frozen zipisport", line 579, in _get_decompress_func
File "frozen zipisport", line 58, in _get_decompress_func
File "frozen zipisport", line 59, in _get_decompress_func
File "frozen zipisport", line 59, in _get_decompress_func
File "frozen zipisport", line 59, in _get_decompress_func
File "frozen zipisport", line 50, in _get_decompress_func
File "frozen zi
```

Exporting PATH so that when we call python3.10 it runs python instead of giving the entire path. We put this in ~./bashrc because we don't want this change to be temporary. To apply changes we **souce** the file.

```
ip\']\nrunpy.run_module("pip", run_name="_main_", alter_sys=True)\n']' returned non-zero exit status 1.
make: *** [Makefile:1281: install] Error 1
tyY778tyserver:-/python_build/Python-3.10.0$ scho 'export PATH="$HOME/.local/python-3.10/bin:$PATH"' >> -/.bashrc
tyY778tyserver:-/python_build/Python-3.10.0$ source -/.bashrc
tyY778tyserver:-/python_build/Python-3.10.0$ pthon3.10 --version
Python 3.10.0
tyY778tyserver:-/python_build/Python-3.10.0$ pip
Command 'pip' not found, but can be installed with:
sudo apt install python3-pip
14/778tyserver:-/python_build/Python-3.10.0$ pip3.10
Command 'pip3.10' not found, did you mean:
command 'pip3.11' from deb python3-pip (24.0*dfsg-lubuntu1.1)
command 'pip3.12' from deb python3-pip (24.0*dfsg-lubuntu1.1)
Try: sudo apt install deb name>
tyY778tyserver:-/python_build/Python-3.10.0$ python3.10 -m pip --version
/home/tyY777.local/python-3.10.0$ python3.10 om pip --version
/home/tyY777*local/python-3.10.0$ python3.10 om pip --version
/home/tyY777*local/python-3.10.0$ python3.10 om pip --version
```

#### Python seems to work but pip dosent

## Trying to install pip, but zlib needed here also

```
ty777@tyserver:~/python_build/Python-3.10.0$ python3.10 get-pip.py --user

Traceback (most recent call last):
    File "<frozen zipimport", line 579, in _get_decompress_func

ModuleNotFoundError: No module named 'zlib'

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
    File "<frozen zipimport", line 618, in _get_data
    File "<frozen zipimport", line 573, in _get_decompress_func
    zipimport.ZipImportError: can't decompress data; zlib not available

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
    File "/home/ty777/python_build/Python-3.10.0/get-pip.py", line 28535, in <module>
        main()

File "/home/ty777/python_build/Python-3.10.0/get-pip.py", line 137, in main
        bootstrap(tmpdir=tmpdir)

File "/home/ty777/python_build/Python-3.10.0/get-pip.py", line 113, in bootstrap
        monkeypatch.for_cert(tmpdir)

File "/home/ty777/python_build/Python-3.10.0/get-pip.py", line 94, in monkeypatch_for_cert
        from pip._internal.commands.install import Installcommand
        File "<frozen zipimport>", line 762, in _get_module_code
        File "<frozen zipimport>", line 620, in _get_module_code
        File "<frozen zipimport>", line 620, in _get_module_code
        File "<frozen zipimport>", line 620, in _get_data
        zipimport.ZipImportError: can't decompress data; zlib not available
        ty777@tyserver:~/python_build/Python-3.10.0$
```

So we try to build zlib and then rebuild python with zlib

We make a dir to build zlid and cd into it.

Wget the zip/tar file for zlib

```
ty777@tyserver:~/zlib_build$ wget https://zlib.net/zlib-l.2.13.tar.gz
--2025-01-26 13:38:31— https://zlib.net/zlib-l.2.13.tar.gz
Resolving zlib.net (zlib.net)... 85.187.148.2

Connecting to zlib.net (zlib.net)|85.187.148.2|:443... connected.

HTTP request sent, awaiting response... 404 Not Found
2025-01-26 13:38:33 ERROR 404: Not Found.

y777@tyserver:~/zlib_build$ ...
ty777@tyserver:~/zlib_build$ wget http://www.zlib.net/fossils/zlib-1.2.13.tar.gz
URL transformed to HTTPS due to an HSTS policy
--2025-01-26 13:41:35-- https://www.zlib.net/fossils/zlib-1.2.13.tar.gz
Resolving www.zlib.net (www.zlib.net)... 85.187.148.2
Connecting to www.zlib.net (www.zlib.net)|85.187.148.2|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 1497445 (1.4M) [application/x-gzip]
Saving to: 'zlib-1.2.13.tar.gz'
 2025-01-26 13:41:39 (654 KB/s) - 'zlib-1.2.13.tar.gz' saved [1497445/1497445]
   y777@tyserver:~/zlib_build$ ls -l zlib-1.2.13.tar.gz
rw-rw-r- 1 ty777 ty777 1497445 Oct 13 2022 zlib-1.2.13.tar.gz
y777@tyserver:~/zlib_build$ |
```

Extracting the zip file and cd into the zlib dir

#### Running

#### ./configure

Prepares the build environment by checking system dependencies, setting compiler flags, and generating a Makefile.

--prefix=<path>: Specifies the installation directory (e.g., \$HOME/.local/sqlite).

```
2025-01-26 13:41:39 (654 KB/s) - 'zlib-1.2.13.tar.gz' saved [1497445/1497445]
                     78tyserver:~/zlib_build$ ls -l zlib-1.2.13.tar.gz
rw-r-- 1 ty777 ty777 1497445 Oct 13 2022 zlib-1.2.13.tar.gz
78tyserver:~/zlib_build$ tar -xzf zlib-1.2.13.tar.gz
78tyserver:~/zlib_build$ cd zlib-1.2.13
78tyserver:~/zlib_build/zlib-1.2.13$ ./configure --prefix=$HOME/.local/zlib
tyfffetyserver:~/zlib_build/zlib-1.2.13$ ,/configure
Checking for gcc...
Building shared library support...
Building shared library libz.so.1.2.13 with gcc.
Checking for size_t... Yes.
Checking for offed_t... Yes.
Checking for fseeko... Yes.
Checking for strerror... Yes.
Checking for strerror... Yes.
Checking for unistd.h... Yes.
Checking for stdarg.h... Yes.
Checking for stdarg.h... Yes.
Checking for return value of vsnprintf()... Yes.
Checking for return value of vsnprintf()... Yes.
Checking for return value of vsnprintf()... Yes.
Checking for rattribute(visibility) support... Yes.
tyfffetyserver:~/zlib_build/zlib-1.2.13$
```

#### make

Compiles the source code into binaries using the rules defined in the Makefile.

-j\$(nproc): Parallel compilation for faster builds.

## make install

Installs the compiled binaries, libraries, and headers to the directory specified in

--prefix

#### Now that zlib is installed we do a clean build of python

```
chmod 644 /home/ty777/.local/zlib/include/zlib.h /home/ty777/.local/zlib/include/zconf.h
ty7778tyserver:-/zlib_build/zlib-1.2.13$ cd -/qython_3.10.0$
ty7778tyserver:-/gython_build/python-3.10.0$
mind .-depth -name '__pycache__' -exe rm -rf {} ';'
find .-name '*_pycol' -exe rm -ff {} ';'
find .-name '*.sol[0-]* -exe rm -ff {} ';'
find .-name '*.so.[0-]*' -exe rm -ff {} ';'
find .-name '*.so.[0-]*' -exe rm -ff {} ';'
find .-name '*.so.[0-]*' -exe rm -ff {} ';'
find build -name '*.py' -exe rm -ff {} ';'
find build -name '*.py' -exe rm -ff {} ';'
find build -name '*.py' -exe rm -ff {} ';'
find build -name '*.py'-exe rm -ff {} ';'
find -name '*.py'-exe rm -ff {} ';'
find -name '*.porfclang' -exe rm -ff {} ';'
find -name '*.porfclang' -exe rm -ff {} ';'
find -name '*.porfclang' -exe rm -ff {} ';'
find -name '*.qor') -exe rm -ff {} ';'
find -name '*.porfclang' -exe rm -ff {} ';'
fi
```

#### **CPPFLAGS (C Preprocessor Flags)**

Specifies flags for the **C preprocessor** (e.g., include paths for header files).

- Adding include directories with -I.
- Defining macros with -D.

## LDFLAGS (Linker Flags):

Specifies flags for the linker (e.g., library paths or linking options).

- Adding library directories with -L.
- Linking libraries explicitly with -l.

And then run ./configure again for python build

```
checking for openssl/ssl.h in /usr/local/ssl... no
checking for openssl/ssl.h in /usr/lib/ssl... no
checking for openssl/ssl.h in /usr/ssl... no
checking for openssl/ssl.h in /usr/ssl... no
checking for openssl/ssl.h in /usr/local... no
checking for openssl/ssl.h in /usr/local... no
checking for openssl/ssl.h in /usr... no
checking for openssl/ssl.h in /usr... no
checking whether compiling and linking against OpenSSL works... no
checking for —with-openssl-rpath...
checking for —with-ssl-default-suites... python
checking for —with-builtin-hashlib-hashes... md5, shal, sha256, sha512, sha3, blake2
checking for —with-experimental-isolated-subinterpreters... no
checking for —with-static-libpython... yes
checking for —disable-test-modules... no
configure: creating /config.status
config.status: creating Misc/python.pc
config.status: creating Misc/python.pc
config.status: creating Misc/python-config.sh
config.status: creating Misc/python-config.sh
config.status: creating Modules/ld_so_aix
config.status: creating pyconfig.h
configure: WARNING: unrecognized options: —with-zlib
creating Modules/Setup.local
creating Modules/Setup.local
creating Makefile
ty777@tyserver:~/python_build/Python-3.10.0$
```

#### Now we rebuild python

```
creating Makefile
ty7770tyserver:*/python_build/Python=3.10.0$ make -j $(nproc) && make install
Running code to generate profile data (this can take a while):
# First, we need to create a clean build with profile generation
# enabled.
make profile-gen-stamp
make[1]: Entering directory '/home/ty777/python_build/Python=3.10.0'
make clean
make[2]: Entering directory '/home/ty777/python_build/Python=3.10.0'
find . -depth -name '__pycache__' -exec rm -f { ';'
find . -name '*.pylco]' -exec rm -f { ';'
find . -name '*.so[.0] -yecer m -f { ';'
find . -name '*.so[.0] -yecer m -f { ';'
find . -name '*.so[.0] -yecer m -f { ';'
find uname '*.so[.0] -yecer m -f { ';'
find build -name '*.py' -exec rm -f { ';'
find build -name '*.py' -exec rm -f { ';' || true
find build -name '*.py' -exec rm -f { ';' || true
find build -name '*.py[co]' -exec rm -f { ';' || true
find build -name '*.py[co]' -exec rm -f { ';' || true
find build -name '*.py[co]' -exec rm -f { ';' || true
find build -name '*.py[co]' -exec rm -f { ';' || true
find build -name '*.po[co]' -exec rm -f { ';' || true
find build -type f -a ! -name '*.gc??' -exec rm -f { ';'
find . -name '*.porclang' -exec rm -f { ';'
find . -name '*.porclang' -exec rm -f { ';'
find . -name '*.porclang' -exec rm -f { ';'
find . -name '*.porclang' -exec rm -f { ';'
find . -name '*.yor?' -exec rm -f { ';'
find . -name '*.yor?' -exec rm -f { ';'
find . -name '*.yor?' -exec rm -f { ';'
find . -name '*.yor?' -exec rm -f { ';'
find . -name '*.yor?' -exec rm -f { ';'
find . -name '*.yor?' -exec rm -f { ';'
find . -name '*.yor?' -exec rm -f { ';'
find . -name '*.yor?' -exec rm -f { ';'
find . -name '*.yor?' -exec rm -f { ';'
find . -name '*.yor?' -exec rm -f { ';'
find . -name '*.yor?' -exec rm -f { ';'
find . -name '*.yor?' -exec rm -f { ';'
find . -name '*.yor?' -exec rm -f { ';'
find . -name '*.yor?' -exec rm -f { ';'
find . -name '*.yor?' -exec rm -f { ';'
find . -name '*.yor?' -exec rm -f { ';'
find . -name '*.porclang' -exec rm -f { ';'
find . -name '*.porclang' -exec rm -f { ';'
find . -na
```

As you can see pip is installed as well

```
ty???@tyserver:~$ cd testing_label_studios
-bash: cd: testing_label_studios: No such file or directory
ty???@tyserver:~$ mkdir testing_label_studios
ty???@tyserver:~$ cd testing_label_studios
ty???@tyserver:~$ testing_label_studios
ty???@tyserver:~/testing_label_studios$ |
```

#### Activating the virtual environment

```
python_build zlib_build
ty/77/8tyserver:* cd testing_label_studios
-bash: cd: testing_label_studios: No such file or directory
ty/77/8tyserver:* mkdir testing_label_studios
ty/778tyserver:* cd testing_label_studios
ty/778tyserver:*/testing_label_studios* python3.10 -m venv venv
ty/77/8tyserver:*/testing_label_studios* python3.10 -m venv venv
ty/77/8tyserver:*/testing_label_studios* ls venv/
bin include lib lib64 pyvenv.cfg
ty/778tyserver:*/testing_label_studios* ls venv/bin
activate activate.csh activate.fish Activate.ps1 pip pip3 pip3.10 python python3.10
ty/77/8tyserver:*/testing_label_studios* source venv/bin/activate
(venv) ty/77/8tyserver:*/testing_label_studios*
```

## SSL Errors on installing label studios with pip

```
activate activate.csh activate.fish Activate.psl pip pip3 pip3.10 python python3 python3.10 
ty7770tysorver:-/testing_label_studios$ source venv/bin/activate 
(venv) ty7770tysorver:-/testing_label_studios$ pip3.10 install label-studio 
MARNING: pip is configured with locations that require TLS/SSL, however the ssl module in Python is not available. 
MARNING: pip is configured with locations that require TLS/SSL, however the ssl module in Python is not available. 
MARNING: pip is configured with locations that require TLS/SSL, however the ssl module in Python is not available. 
MARNING: pip is configured with locations that require TLS/SSL, however the ssl module in Python is not available. 
MARNING: Retrying (Retry(total=3, connoct=None, read=None, redirect=None, status=None)) after connection broken by 'SSLError("Can't connect to HTTPS URL beca not available.")': /simple/label-studio/
MARNING: Retrying (Retry(total=3, connoct=None, read=None, redirect=None, status=None)) after connection broken by 'SSLError("Can't connect to HTTPS URL beca not available.")': /simple/label-studio/
MARNING: Retrying (Retry(total=3, connoct=None, read=None, redirect=None, status=None)) after connection broken by 'SSLError("Can't connect to HTTPS URL beca not available.")': /simple/label-studio/
Could not fetch URL https://pypi.org/simple/label-studio/: There was a problem confirming the ssl certificate: HTTPSConnectionPool(host='pypi.org', port=M43)
EMROR: Could not find a version that satisfies the requirement label-studio (from versions: none)
EMROR: Could not find a version that satisfies the requirement label-studio (from versions: none)

MARNING: pip is configured with locations that require TLS/SSL, however the ssl module is not available.

Could not fetch URL https://pypi.org/simple/pip/: There was a problem confirming the ssl certificate: HTTPSConnectionPool(host='pypi.org', port=M43): Max ret is simple/pip/ (Caused by SSLError("Can't connect to HTTPS URL because the SSL module is not available.")) - skipping

(venv) ty77
```

## Rebuilding python with openssl(similar to how we did for zlib)

```
now) ty/778tyserver-/testing_label_studios$ "C
env) ty/778tyserver-/testing_label_studios$
env) ty/78tyserver-/testing_label_studios$
env) ty/79tyserver-/testing_label_studios$
env) ty/79tyserver-/testing
         nam
soslving objects.githubusercontent.com (objects.githubusercontent.com)... 185.199.108.133, 185.199.109.133, 185.199.111.133, ...
onnecting to objects.githubusercontent.com (objects.githubusercontent.com)[185.199.108.133]:443... connected.
TPT request sent, amaiting response... 200 OK
night: 9893384 (9.49) [application/octet-stream]
ving to: 'openssl-1.1.1w.ta-ug2'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ===>l 9.43M 4.95MB/s in 1.9s
   025-01-26 14:05:29 (4.95 MB/s) - 'openssl-1.1.1w.tar.gz' saved [9893384/9893384]
             env) ty777@tyserver:~/openssl_build$ tar -xzf openssl-1.1.1w.tar.gz
env) ty777@tyserver:~/openssl_build$ cd openssl-1.1.1w
env) ty777@tyserver:~/openssl_build/openssl-1.1.1w$ |
(venv) ty///@tyserver:*/opensst_builds cd opensst-1.1.W..tar.gz
(venv) ty///@tyserver:*/opensst_builds cd opensst-1.1.W ./config --prefix=$HOME/.local/opensst --openssldir=$HOME/.local/opensst
make S& make install
Operating system: x86_64-whatever-linux2
Configuring OpenSSL version 1.1.W (0x1010117fL) for linux-x86_64
Using os-specific seed configuration
Creating configurate.pm
Creating Configurate.pm
/usr/bin/perl "-I." -Mconfigdata "util/dofile.pl" \
"-oflakefile" include/crypto/bn_conf.h. in > include/crypto/bn_conf.h
|/usr/bin/perl "-I." -Mconfigdata "util/dofile.pl" \
"-oflakefile" include/crypto/dso_conf.h. in > include/crypto/dso_conf.h
|/usr/bin/perl "-I." -Mconfigdata "util/dofile.pl" \
"-oflakefile" include/crypto/dso_conf.h. in > include/crypto/dso_conf.h
|/usr/bin/perl "-I." -Mconfigdata "util/dofile.pl" \
"-oflakefile" include/openssl/opensslconf.h. in > include/openssl/opensslconf.h
make depend && make_all
make[1]: Entering directory '/home/ty777/openssl_build/openssl-1.1.lw'
                                                                                  .local/openssl/share/doc/openssl/html/man//passphrase-encoding.ntml
.local/openssl/share/doc/openssl/html/man//proxy-certificates.html
.local/openssl/share/doc/openssl/html/man//RAMD.html
.local/openssl/share/doc/openssl/html/man//RAMD.html
.local/openssl/share/doc/openssl/html/man//RAMD.BMS.html
.local/openssl/share/doc/openssl/html/man//RSA-PSS.html
.local/openssl/share/doc/openssl/html/man//SSP.html
.local/openssl/share/doc/openssl/html/man//SSP.html
.local/openssl/share/doc/openssl/html/man//SSP.html
.local/openssl/share/doc/openssl/html/man//SSP.html
.local/openssl/share/doc/openssl/html/man//SSP.html
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                                                                                                                                                                                                                                                                                                                                                                                                                                                         -> /home/tv777/.local/openssl/share/doc/openssl/html/man7/X25519.html
                                             y/T//.local/openssl/share/doc/openssl/html/man//x2b519.html
y/T/T/.local/openssl/share/doc/openssl/html/man//x2b519.html
y/T/T/.local/openssl/share/doc/openssl/html/man/x2b519.html
y/T/T/.local/openssl/share/doc/openssl/html/man/x5b99.html
ty/T/Tetyservor:~/openssl_build/openssl-1.1.lm$ cd ~/python_build/Python-3.10.0
ty/T/Tetyservor:~/openssl_build/openssl-1.1.lm$ cd ~/python_thild/Python-3.10.0
ty/T/Tetyservor:~/python_build/Python-3.10.0$ export LDFLAGS=""L$HOME/.local/openssl/lib"
ty/T/Tetyservor:~/python_build/Python-3.10.0$ export LD_LIBRARY_PATH="$HOME/.local/openssl/lib"
ty/T/Tetyservor:~/python_build/Python-3.10.0$
i/configure \
\text{local/openssl/lib:}
\text{LDLIBRARY_PATH}
\text{LD
```

```
checking for shm_open... yes
checking for openssl/ssl.h in /home/ty777/.local/openssl... yes
checking for openssl/ssl.h in /home/ty777/.local/openssl... yes
checking for openssl/ssl.h in /home/ty777/.local/openssl... yes
checking for -with-openssl-rpath...
checking for -with-openssl-rpath...
checking for -with-builtin-hashib-hashes... md5, sha1, sha256, sha512, sha3, blake2
checking for -with-static-libpython... yes
checking for -with-static-libpython... yes
checking for -with-static-libpython... yes
checking for -odisable-test-modules... no
configure: creating /.config.status
config.status: creating Makefile.pre
config.status: creating Misc/python.pc
config.status: creating Misc/python-embed.pc
config.status: creating Misc/python-config.sh
config.status: creating pyconfig.h
creating Modules/Setup.local
creating Modules/Setup.local
creating Makefile
(venv) ty777@tyserver:~/python_build/Python-3.10.0$
config.status: creating Misc/python-config.sh
config.status: creating Modules/ld.so_aix
config.status: creating Modules/ld.so_aix
config.status: creating Modules/Setup.local
```

```
config.status: creating Misc/python-config.sh
config.status: creating Modules/Id_so_aix
config.status: creating Modules/Id_so_aix
config.status: creating Modules/Setup.local
creating Modules/Setup.local
creating Makefile
(venv) ty777@tyserver:~/python_build/Python-3.10.0$ make -j $(nproc) && make install
Rebuilding with profile guided optimizations:
rm -f profile-clean-stamp
make build_all CFLAGS_NODIST=" -fprofile-use -fprofile-correction" LDFLAGS_NODIST=""
make[1]: Entering directory '/home/ty777/python_build/Python-3.10.0'
gcc -c -Wno-unused-result -Wsign-compare -DNDEBUG -g -fwrapv -O3 -Wall -fno-semantic-interposition -std=c99 -Wextra -Wno-unused-result
d-initializers -Werror=inplicit-function-declaration -fvisibility=hidden -fprofile-use -fprofile-correction -I./Include/internal -I. -I./
gcc -c -Wno-unused-result -Wsign-compare -DNDEBUG -g -fwrapv -O3 -Wall -fno-semantic-interposition -std=c99 -Wextra -Wno-unused-result
d-initializers -Werror=inplicit-function-declaration -fvisibility-hidden -fprofile-use -fprofile-correction -I./Include/internal -I. -I./
clude -I/home/ty777.local/openssl/include -DPy_BUILD_CORE -o Parser/token.o Parser/token.c
gcc -c -Wno-unused-result -Wsign-compare -DNDEBUG -g -fwrapv -O3 -Wall -fno-semantic-interposition -std=c99 -Wextra -Wno-unused-result
d-initializers -Werror=implicit-function-declaration -fvisibility-hidden -fprofile-use -fprofile-correction -I./Include/internal -I. -I./
clude -I/home/ty777.local/openssl/include -DPy_BUILD_CORE -o Parser/pegen.o Parser/pegen.c
```

```
refix = None

ooking in links: /tmp/tmpnp0m.tru

equirement already satisfied: setuptools in /home/ty777/.local/python-3.18/lib/python3.19/site-packages (57.4.0)

equirement already satisfied: spi in /home/ty777/.local/python-3.10/lib/python3.10/site-packages (21.2.3)

venv) ty7778tyserver:-/python.build/python-3.10.0$ echo 'export PATH="$HOME/.local/python-3.10/bin:$PATH=" >> -/.bashrc

venv) ty7778tyserver:-/python.build/Python-3.10.0$ echo 'export LD_LIBRARY_PATH="$HOME/.local/openssl/lib:$LO_LIBRARY_PATH=" >> -/.bashrc

venv) ty7778tyserver:-/python_build/Python-3.10.0$ source -/.bashrc

venv) ty7778tyserver:-/python_build/Python-3.10.0$
```

#### Open ssl is working

```
(venv) ty/77/@tyserver:~/python_build/Python-3.10.0$ source ~/.bashrc
ty/77/@tyserver:~/python_build/Python-3.10.0$ python3.10 -c "import ssl; print(ssl.OPENSSL_VERSION)"
OpenSSL 1.1.1w 11 Sep 2023
ty/77/@tyserver:~/python_build/Python-3.10.0$
```

## **Installing Label Studios**

```
ty///@tyserver:~/python_Build/Python-3.10.0, python3.10 -m pip install label-studio --user
ty/7/@tyserver:~/python_build/Python-3.10.0$ python3.10 -m pip install label-studio --user
                             ing label_studio=1.15.0-py3-none-any.whl (60.6 MB)
                        g psycopg2-binary==2.9.10
ding psycopg2_binary=2.9.10-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (3.0 MB)
3.0 MB 585 kB/s
Collecting rules==3.4

Downloading rules=3.4-py2.py3-none-any.whl (25 kB)

Collecting Django<4.3.0,>=4.2.13

Downloading Django-4.2.18-py3-none-any.whl (8.0 MB)

| 8.0 MB 323 kB/s
| 8.0 MB 323 kB/s

Collecting python-json-logger==2.0.4
| Downloading python-json-logger=2.0.4-py3-none-any.whl (7.8 kB)

Collecting rq=1.10.1
| Downloading rq-1.10.1-py2.py3-none-any.whl (70 kB)
| 70 kB 333 kB/s

Collecting google-cloud-logging<4.0.0, >=3.10.0
| Downloading google_cloud_logging=3.11.3-py2.py3-none-any.whl (218 kB)
| 218 kB 415 kB/s

Collecting google-cloud_storage<3.0.0 >=2.13.0
| Downloading google_cloud_storage<3.19.0-py2.py3-none-any.whl (131 kB)
| 131 kB 751 kB/s
Collecting ordered-set==4.0.2
```

But getting errors because libffi not installed

So we install in a similar way to zlib/openssl

Creating a build directory and installing zip and unzipping

#### Then configure

```
ModuleNotFoundError: No module named '.ctypes'

'Cty7778tyserver:-/python_build/Python-3.10.0/label-studio$ ls ~/.local/libffi/lib
ls: cannot access '/home/ty777-local/libffi/lib': No such file or directory
ty7778tyserver:-/python_build/Python-3.10.0/label-studio$ mkdir -p ~/libffi_build && cd ~/libffi_build
ty7778tyserver:-/python_build/Python-3.10.0/label-studio$ mkdir -p ~/libffi_build && cd ~/libffi_build
ty7778tyserver:-/python_build/Python-3.10.0/label-studio$ mkdir -p ~/libffi_build && cd ~/libffi_build
ty7778tyserver:-/libffi_build$ mythor-3.10.0/label-studio$ mkdir -p ~/libffi_build && cd ~/libffi_3.4.6.tar.gz

-2025-01-26 15:32:39-— https://github.com/libffi/libffi/releases/download/v3.4.6/libffi-3.4.6.tar.gz

Resolving github.com (github.com)... 20.207.73.82

Connecting to github.com (github.com)|20.207.73.82|:443... connected.

HTTP request sent, awaiting response... 302 Found

Location: https://objects.githubusercontent.com/github-production-release-asset-2e65be/321154/39abe7c6-34ad-4af4-b7fd-b08f2448f843?X-Amz-Signature-ec462dbbb7981d87fa09edec90ec23e67fd49cf6b13ac46197277268bbde91e0bx-Amz-SignedHeaders-host&response-content-disposition-attachment
*38%267ilename%3D1ibffi-3.4.6.tar.gzkresponse-content-type=application%2F025b1264F2Fus-east-1*2F53%2Faws4_request&X-Amz-Date-2025b126153243Z&X-Amz-Expires-390&X-Amz-Signature-ec462dbb7981d87fa09edec90ec23e67fd49cf6b13ac4619727268bbde91e0bx-Amz-Signadeders-host&response-content-disposition-attachment
*38%267ilename%3D1ibffi-3.4.6.tar.gzkresponse-content-type-application%2F025b1264F2Fus-east-1*2F53b2Faws4_request&X-Amz-Date-2025b126155243Z&X-Amz-Expires-390&X-Amz-Signature-ec462dbb7981d87fa09edec90ec23a667fd49cf6b13ac4619727268bbde91e0bx-Amz-Signadeders-host&response-content-disposition-attachment*38%20filename%3D1ibffi-3.4.6.tar.gz&response-content-type-application%2F025b1264F2Fus-east-1*2F53b2Faws4_request&X-Amz-Date-2025b126153243Z&X-Amz-Expires-390&X-Amz-Signature-ec462dbb7981d87fa09edec90ec23a667fd49cf6b13ac4619727268bbde91e0bx-Amz-Signadeders-host&re
     libffi-3.4.6.tar.gz
                                                                                                                                                                                                                                                               100%[===
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ========>] 1.33M 1.99MB/s
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             in 0.7s
     2025-01-26 15:32:41 (1.99 MB/s) - `libffi-3.4.6.tar.gz' saved [1391684/1391684]
        ty777@tyserver:-/libffi_build$ tar -xzf libffi-3.4.6.tar.gz

ty777@tyserver:-/libffi_build$ cd libffi-3.4.6$ ./configure --prefix=$HOME/.local/libffi
ty777@tyserver:-/libffi_build/libffi-3.4.6$ ./configure --prefix=$HOME/.local/libffi
checking build system type... x86.64-pc-linux-gnu
checking host system type... x86.64-pc-linux-gnu
checking target system type... x86.64-pc-linux-gnu
continue configure in default builddir "./x86.64-pc-linux-gnu"
....exec /bin/bash .././configure "--srcdir=.." "--enable-builddir=x86_64-pc-linux-gnu"
             nu"
hecking build system type... x86_64-pc-linux-gnu
hecking host system type... x86_64-pc-linux-gnu
hecking target system type... x86_64-pc-linux-gnu
hecking for gsed.. sed
hecking for a BSD-compatible install... /usr/bin/install -c
hecking whether build environment is sane... yes
hecking for a race-free mkdir -p... /usr/bin/mkdir -p
hecking for gawk... gawk
hecking whether make sets $(MAKE)... yes
```

#### Building libffi

```
config.status: executing src commands
ty7778/yserver:-/libff_build/libffi-3.4.6$ make && make install
MARK #86.69P-c-linux-gnu'
make[1]: Entering directory '/home/ty777/libffi_build/libffi-3.4.6/x86.64-pc-linux-gnu'
make[2]: Entering directory '/home/ty777/libffi_build/libffi-3.4.6/x86.64-pc-linux-gnu/
make[3]: Entering directory '/home/ty777/libffi_build/libffi-3.4.6/x86.64-pc-linux-gnu/include'
make[3]: Mothing to be done for 'all'
make[3]: Mot
```

```
add LIBDIR to the 'LD_RUN_PAIH' environment variable
              during linking
              use the '-Wl,-rpath -Wl,LIBDIR' linker flag
              have your system administrator add LIBDIR to '/etc/ld.so.conf'
See any operating system documentation about shared libraries for more information, such as the ld(1) and ld.so(8) manual pages.
/usr/bin/mkdir -p '/home/ty777/.local/libffi/lib/pkgconfig'
/usr/bin/install -c -m 644 libffi.pc '/home/ty777/.local/libffi/lib/pkgconfig'
make[3]: Leaving directory '/home/ty777/libffi_build/libffi-3.4.6/x86_64-pc-linux-gnu'
make[2]: Leaving directory '/home/ty777/libffi_build/libffi-3.4.6/x86_64-pc-linux-gnu'
make[1]: Leaving directory '/home/ty777/libffi_build/libffi-3.4.6/x86_64-pc-linux-gnu'
ty777@tyserver:~/libffi_build/libffi-3.4.6$ ls ~/.local/libffi/lib
libffi.a libffi.la libffi.so libffi.so.8 libffi.so.8.1.4 pkgconfig
ty777@tyserver:~/libffi_build/libffi-3.4.6$ |
```

#### Python clean build

```
ty777@tyserver:~/libffi_build/libffi-3.4.6$ ls ~/.local/libffi/lib libffi.a libffi.a libffi.so libffi.so.8 libffi.so.8.1.4 pkgconfig ty777@tyserver:~/libffi_build/libffi-3.4.6$ ls ~/.local/libffi/lib64 ls: cannot access '/home/ty777/.local/libffi/lib64': No such file or directory ty777@tyserver:~/libffi_build/libffi-3.4.6$ d ~/python_build/Python-3.10.0 ty777@tyserver:~/python_build/Python-3.10.0$ make clean find . -depth -name '__pycache__' -exec rm -rf {} ';' find . -name '*.[oa]' -exec rm -f {} ';' find . -name '*.s[ol]' -exec rm -f {} ';' find . -name '*.s[ol]' -exec rm -f {} ';' find . -name '*.s[ol]' -exec rm -f {} ';' find build -name 'fficonfig.h' -exec rm -f {} ';' || true find build -name '*.py' -exec rm -f {} ';' || true find build -name '*.py' -exec rm -f {} ';' || true rm -f pybuilddir.txt rm -f Lib/lib2to3/kcrammar*.pickle rm -f Programs/_testembed Programs/_freeze_importlib find build -type f -a ! -name '*.gc??' -exec rm -f {} ';' rm -f Include/pytrace_probes.h rm -f profile-gen-stamp make[1]: Entering directory '/home/ty777/python_build/Python-3.10.0' find .-name '*.profclang?' -exec rm -f {} ';' rm -f /home/ty777/python_build/Python-3.10.0/coverage.info rm -rf /home/ty777/python_build/Python-3.10.0/ty77@tyserver:~/python_build/Python-3.10.0$
```

```
/home/ty777/.local/openssl/share/doc/openssl/html/man3/X509_REVOKED_delete_ext.html > /home/ty777/.local/openssl/share/doc/openssl/html/man3/X509_REVOKED_delete_ext.html > /home/ty777/.local/openssl/share/doc/openssl/html/man3/X509.REVOKED_delete_ext.html > /home/ty777/.local/openssl/share/doc/openssl/html/man3/X509v3_get_ext_by_NID.html /home/ty777/.local/openssl/share/doc/openssl/html/man5/X509v3_get_ext_by_NID.html /home/ty777/.local/openssl/share/doc/openssl/html/man5/X509v3_get_ext_by_NID.html /home/ty777/.local/openssl/share/doc/openssl/html/man5/X509v3_get_ext_by_NID.html /home/ty777/.local/openssl/share/doc/openssl/html/man5/X509v3_get_ext_by_NID.html /home/ty777/.local/openssl/share/doc/openssl/html/man5/X509v3_get_ext_by_NID.html /home/ty777/.local/openssl/share/doc/openssl/html/man5/X509v3_get_ext_by_NID.html /home/ty777/.local/openssl/share/doc/openssl/html/man5/X509v3_get_ext_by_NID.html /home/ty777/.local/openssl/share/doc/openssl/html/man5/X509v3_get_ext_by_NID.html /home/ty777/.local/openssl/share/doc/openssl/html/man5/X509v3_get_ext_by_NID.html /home/ty777/.local/openssl/share/doc/openssl/html/man5/Y509v3_get_ext_by_NID.html /home/ty777/.local/openssl/share/doc/openssl/html/man5/y509v3_get_
```

# Exporting Libffi headers, libraries

```
rm -f profile-run-stamp
make[1]: Leaving directory '/home/ty777/python_build/Python-3.10.0*
ty7778tyserver:-/python_build/Python-3.10.0$ export CDPFLAGS="-1$HOME/.local/libffi/lib-1$HOME/.local/libffi/lib64"
ty7778tyserver:-/python_build/Python-3.10.0$ export LDFLAGS="-1$HOME/.local/libffi/lib-1$HOME/.local/libffi/lib64"
ty7778tyserver:-/python_build/Python-3.10.0$ export LDFLAGS="-1$HOME/.local/libffi/lib:$HOME/.local/libffi/lib64:$LD_LIBRARY_PATH"
ty7778tyserver:-/python_build/Python-3.10.0$ /configure \
--enable-optimizations\
--prefix=$HOME/.local/python-3.10 \
--with-opensil="$MOME/.local/opensil" \
--with-system-fi
checking build system type... x86_64-pc-linux-gnu
checking for python3.10... python3.10
checking for python3.10... python3.10
checking for --with-universal-rachs... no
checking for --with-universal-rachs... no
checking for gec... gec
checking for gec... gec
checking for gec... gec
checking for C compiler works... yes
checking for C compiler default output file name... a.out
checking for Suffix of executables...
checking mether the C compiler works... yes
checking for suffix of object files... o
checking neither exer cross compiling... no
checking neither exer cross compiling... no
checking neither exer cross compiling... no
checking neither exer using the GNU C compiler... yes
checking for grey that handles long Lines and -... /usr/bin/grep
checking for grey that handles long Lines and -... /usr/bin/grep
checking for grey that handles long Lines and -... /usr/bin/sed
checking for --with-rex-main=<compiler>... no
configure:

Du default distrible will build the automaion modules with Note...

Du default distrible will build the automaion modules with Note...

Du default distrible will build the automaion modules with Note...

Du default distrible will build the automaion modules with Note...

Du default distrible will build the automaion modules with Note...

Du default distrible will build the automaion modules with Note...

Du default distrible will build the automaion modules with Note...

Du
```

#### Rebuilding python

```
config.status: creating Misc/python.pc
config.status: creating Misc/python.pc
config.status: creating Misc/python-mobid.pc
config.status: creating Misc/python-config.sh
config.status: creating Misc/python-config.sh
config.status: creating Misc/python-config.sh
config.status: creating Misc/python-mobid.pc
config.status: creating Misc/python-mobid.pc
config.status: pyconfig.h is unchanged
creating Misc/file
pyconfig.status: pyconfig.h is unchanged
creating disconfig.h is unchanged
creating disconfig.h is unchanged
creating disconfig.h is unchanged
creating disconfig.h is unchanged
creating disconfig.h
```

```
Irried running label studio but sqlite error

**This processor** / python.buil** / python.2.18.85 tabel-tudio start ...

**Static Bis set to 'stach home/symm'.lecal/share/label-studio

**Static Bis set to 'stach home/symm'.lecal/share/label-studio

**Static Bis set to 'stack home symm'.lecal/share/label-studio

**Static Bis set to 'stack home symm'.lecal/share symme.lecal home symme.lecal home
```

# Downloading sqlite3 using wget and Unzipping the tar file

```
sqlite-autoconf-3430200.tar.gz
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        =>] 3.03M 727KB/s
2025-01-26 17:33:55 (727 kB/s) - 'sqlite-autoconf-3430200.tar.gz' saved [3177625/3177.

ty7778tyserver:-/python_build/Python-3.10.0$ tar -xvf sqlite-autoconf-3430200.tar.gz sqlite-autoconf-3430200/ea/
sqlite-autoconf-3430200/ea/
sqlite-autoconf-3430200/ea/
sqlite-autoconf-3430200/ea/
sqlite-autoconf-3430200/ea/sqlite-autoconf-3430200.tar.gz
sqlite-autoconf-3430200/ea/sqlite-green ea/
sqlite-autoconf-3430200/makefile ea/
sqlite-autoconf-3430200/sqlite-green ea/
sqlite-autoconf-3430200/sqlite-green
   2025-01-26 17:33:55 (727 KB/s) - 'sqlite-autoconf-3430200.tar.gz' saved [3177625/3177625]
```

Cd into sqlite-autoconf-3430200

And run ./configure

Which, Prepares the build environment by checking system dependencies, setting compiler flags, and generating a Makefile.

- --prefix=<path>: Specifies the installation directory (e.g., \$HOME/.local/sqlite).
- --enable-optimizations: Optimizes the build (used for Python).

#### make

Compiles the source code into binaries using the rules defined in the Makefile.

If you run: make -j\$(nproc)

it compiles using all CPU cores

## make install

Installs the compiled binaries, libraries, and headers to the directory specified in

--prefix

#### Result:

Binaries: \$HOME/.local/sqlite/bin/sqlite3

• Libraries: \$HOME/.local/sqlite/lib/libsqlite3.so

• Headers: \$HOME/.local/sqlite/include/sqlite3.

```
libtool: link: ( cd ".libs" %% rm -f "libsqlite3.la" %% ln -s "../libsqlite3.la" "libsqlite3.la" )
ty7778tyssrver:/python.build/Python-3.10.0/sqlite-autoconf-3430200% make install
make[1]: Entering directory '/home/ty777/local/sqlite3/lib'
/bin/bash ./libtool -mode=install /usr/bin/install -c libsqlite3.so.0.8.6 /home/ty777/.local/sqlite3/lib'
/bin/bash ./libtool: -mode=install /usr/bin/install -c libsqlite3.so.0.8.6 /home/ty777/.local/sqlite3.so.0.8.6 libtool: install: /usr/bin/install -c libs/libsqlite3.so.0.8.6 /home/ty777/.local/sqlite3.so.0.8.6 libtool: install: (cd /home/ty777/.local/sqlite3/lib &% { ln -s -f libsqlite3.so.0.8.6 libsqlite3.so.0.0 || { rm -f libsqlite3.so.0.6% ln -s libsqlite0.0; }; }}
libtool: install: (cd /home/ty777/.local/sqlite3/lib &% { ln -s -f libsqlite3.so.0.8.6 libsqlite3.so || { rm -f libsqlite3.so.0.6% ln -s libsqlite3.so.0; }}
libtool: install: /usr/bin/install -c .libs/libsqlite3.lai /home/ty777/.local/sqlite3/lib/libsqlite3.so || { rm -f libsqlite3.so.6% ln -s libsqlite3.so.0; }}
libtool: install: /usr/bin/install -c .libs/libsqlite3.lai /home/ty777/.local/sqlite3/lib/libsqlite3.a libtool: install: /usr/bin/install -c .libs/libsqlite3/lib/libsqlite3.a libtool: install: ranlib /home/ty777/.local/sqlite3/lib/libsqlite3.a libtool: in
```

## Clean build by removing previous builds

```
ty7778tyserver:-/python_build/Python-3.18.8/sqlite=autoconf-34382808 export CPPFLAGS="-1$HOME/.local/sqlite3/lib" >> -/.bashrc
ty7778tyserver:-/python_build/Python-3.18.8/sqlite=autoconf-34382808 ech export LDFLAGS="-1$HOME/.local/sqlite3/lib" >> -/.bashrc
ty7778tyserver:-/python_build/Python-3.18.8/sqlite=autoconf-34382808 ech export LDFLAGS="-1$HOME/.local/sqlite3/lib;$LD_LIBRARY_PATH="HOME/.local/sqlite3/lib;$LD_LIBRARY_PATH="">-/.bashrc
ty7778tyserver:-/python_build/Python-3.18.8/sqlite=autoconf-34382808 cource -/.bashrc
ty77778tyserver:-/python_build/Python-3.18.8/sqlite=autoconf-34382808 cource -/.bashrc
ty77778tyserver:-/python_build/Python-3.
```

Now building python again, creating make file using

# ./configure

```
make[i]: Leaving directory '/home/ty777/python_build/Python=3.10.0'
ty777@tyserverr/python_build/Python=3.10.0$ ./configure \
--prefix=$HONE./ local/python=3.10 \
--enable-optimizations \
--with-sqlite3=$HONE./ local/sqlite3
configure: WARNING: unrecognized options: --with-sqlite3
checking build system type... x86_64-pc-linux-gnu
checking build system type... x86_64-pc-linux-gnu
checking for python3.10... python3.10
checking for python3.10... python3.10
checking for --enable-universalsdk... no
checking for --with-universal-archs... no
checking MACHDEP... "linux"
checking for co... gcc
checking whether the C compiler works... yes
checking whether the C compiler works... yes
checking for C compiler default output file name... a.out
checking of or suffix of executables...
checking for suffix of executables...
checking for suffix of object files... o
checking whether we are cross compiling... no
checking whether we are using the GNU C compiler... yes
checking for gcc option to accept ISO C89... none needed
checking for gcc option to accept ISO C89... none needed
checking for grep that handles long lines and -e... /usr/bin/grep
checking for ased that does not truncate output... /usr/bin/sed
checking for --with-cxx-main=<compiler>... no
```

#### Running the make file and installing

```
creating Modules/Setup.local
creating Makefile

(Py7708/Systemate-Ppython_build/Python=3.18.05 make -j5(nproc)
(Py7708/Systemate-Ppython_build/Python=3.18.05 make -j5(nproc)
(Py7708/Systemate-Ppython_build/Python=3.18.05 make -j5(nproc)
(Py7708/Systemate-Ppython_build/Python=3.18.05 make -j5(nproc)
(Py7708/Systemate-Python_build/Python-3.18.05 make -j5(nproc)
(Py7708/Systemate-Python_build/Python_Build/Python-3.18.05 make -j5(nproc)
(Py7708/Systemate-Python_build/Python_Build/Python-3.18.05
```

## Starting label studio

```
(1.8.8)

Requirement already satisfied: ua-parser-builtins in /home/ty777/.local/python-3.10/lib/python3.10/site-packages (from ua-parser>=0.10.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0->user-agents==0.4.0-\dots==0.4.0-\dots==0.4.0-\dots==0.4.0-\dots==0.4.0-\dots==0.4.0-\dots==0.4.0-\dots==0.4.0-\dots==0.
```

```
C:\Users\tanis>ssh -L 8080:locahost:8080 ty777@localhost
ssh: connect to host localhost port 22: Connection refused

C:\Users\tanis>ssh -L 8080:locahost:8080 ty777@localhost -p 2222
ty777@localhost's password:
Welcome to Ubuntu 24.04.1 LTS (GNU/Linux 6.8.0-51-generic x86_64)

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

System information as of Sun Jan 26 05:55:57 PM UTC 2025

System load: 0.03
Usage of /: 48.9% of 24.44GB
Memory usage: 31%
Swap usage: 0%
```

