

KMIP Server (PyKMIP)

- Install Python3, the Python package manager and dependencies:

```
sudo apt update
sudo apt install python3 python3-pip python3-venv libssl-dev libffi-dev
python3-dev libsqlite3-dev
```

- Verify the installation:

```
pip3 --version
```

- Create a virtual environment and activate it:

```
python3 -m venv pykmip-env
source pykmip-env/bin/activate
```

- To deactivate the virtual environment, enter deactivate within the virtual environment
- To manage packages you can use:

```
pip3 install package_name
pip3 install --upgrade package_name
pip3 uninstall package_name
```

- Once inside your virtual environment, upgrade pip and install the pykmip library:

```
pip install --upgrade pip
pip install pykmip
```

- Verify the installation:

```
python3 -c "import kmip; print(kmip.__version__)"
```

- Create folder /var/log/pykmip with ownership root:user and permissions 770
- Start the server:

```
sudo pykmip-server -c ./pykmip-env/server.conf
```

- The configuration file:

```
[server]
host = 127.0.0.1
port = 5696
certificate_path = ./certs/server.crt
key_path = ./certs/server.key
ca_path = ./certs/ca.crt
auth_suite = TLS1.2
logging_level = INFO
database_path=/var/lib/pykmip/pykmip.db
```

check

- `sudo chmod -R o+rx /etc/letsencrypt/archive/`
`sudo chmod -R o+rx /etc/letsencrypt/live/`
- `policy_path=/etc/pykmip/policies`

From:

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Permanent link:

https://wiki.condrau.com/deb13:kmip_server_pykmip

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