

Collecting asn1crypto==0.22.0 (from crossbar)
 Downloading asn1crypto-0.22.0-py2.py3-none-any.whl (97kB)
 100% |████████████████████| 102kB 2.5MB/s

Collecting attrs==16.3.0 (from crossbar)
 Downloading attrs-16.3.0-py2.py3-none-any.whl

Collecting autobahn==0.18.1 (from crossbar)
 Downloading autobahn-0.18.1-py2.py3-none-any.whl (263kB)
 100% |████████████████████| 266kB 1.4MB/s

Collecting bitstring==3.1.5 (from crossbar)
 Downloading bitstring-3.1.5.zip (624kB)
 100% |████████████████████| 624kB 548kB/s

Requirement already up-to-date: cbor==1.0.0 in /opt/crossbar/site-packages (from crossbar)

Collecting cffi==1.10.0 (from crossbar)
 Downloading cffi-1.10.0.tar.gz (418kB)
 100% |████████████████████| 419kB 1.4MB/s

Collecting click==6.7 (from crossbar)
 Downloading click-6.7-py2.py3-none-any.whl (71kB)
 100% |████████████████████| 71kB 4.1MB/s

Collecting constantly==15.1.0 (from crossbar)
 Downloading constantly-15.1.0-py2.py3-none-any.whl

Collecting cryptography==1.8.1 (from crossbar)
 Downloading cryptography-1.8.1.tar.gz (423kB)
 100% |████████████████████| 430kB 1.8MB/s

Collecting enum34==1.1.6 (from crossbar)
 Downloading enum34-1.1.6-py2-none-any.whl

Collecting idna==2.5 (from crossbar)
 Downloading idna-2.5-py2.py3-none-any.whl (55kB)
 100% |████████████████████| 61kB 6.0MB/s

Collecting incremental==16.10.1 (from crossbar)
 Downloading incremental-16.10.1-py2.py3-none-any.whl

Collecting ipaddress==1.0.18 (from crossbar)
 Downloading ipaddress-1.0.18-py2-none-any.whl

Collecting lmbd==0.92 (from crossbar)
 Downloading lmbd-0.92.tar.gz (155kB)
 100% |████████████████████| 163kB 4.6MB/s

Collecting mistune==0.7.4 (from crossbar)
 Downloading mistune-0.7.4-py2.py3-none-any.whl

Collecting netaddr==0.7.19 (from crossbar)
 Downloading netaddr-0.7.19-py2.py3-none-any.whl (1.6MB)
 100% |████████████████████| 1.6MB 462kB/s

Collecting packaging==16.8 (from crossbar)
 Downloading packaging-16.8-py2.py3-none-any.whl

Collecting pathtools==0.1.2 (from crossbar)
 Downloading pathtools-0.1.2.tar.gz

Collecting psutil==5.2.1 (from crossbar)
 Downloading psutil-5.2.1.tar.gz (347kB)
 100% |████████████████████| 348kB 2.3MB/s

Collecting py-ubjson==0.9.0 (from crossbar)
 Downloading py-ubjson-0.9.0.tar.gz (43kB)
 100% |████████████████████| 51kB 6.3MB/s

Collecting pyOpenSSL==16.2.0 (from crossbar)
 Downloading pyOpenSSL-16.2.0-py2.py3-none-any.whl (43kB)
 100% |████████████████████| 51kB 5.9MB/s

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Collecting pyasn1==0.2.3 (from crossbar)
  Downloading pyasn1-0.2.3-py2.py3-none-any.whl (53kB)
    100% |████████████████████| 61kB 5.9MB/s
Requirement already up-to-date: pyasn1-modules==0.0.8 in /opt/
crossbar/site-packages (from crossbar)
Collecting pycparser==2.17 (from crossbar)
  Downloading pycparser-2.17.tar.gz (231kB)
    100% |████████████████████| 235kB 3.2MB/s
Collecting pyparsing==2.2.0 (from crossbar)
  Downloading pyparsing-2.2.0-py2.py3-none-any.whl (56kB)
    100% |████████████████████| 61kB 6.1MB/s
Requirement already up-to-date: requests==2.13.0 in /opt/crossbar/
site-packages (from crossbar)
Collecting sdnofify==0.3.1 (from crossbar)
  Downloading sdnofify-0.3.1.tar.gz
Requirement already up-to-date: service-identity==16.0.0 in /opt/
crossbar/site-packages (from crossbar)
Collecting setproctitle==1.1.10 (from crossbar)
  Downloading setproctitle-1.1.10.tar.gz
Collecting setuptools==34.3.3 (from crossbar)
  Downloading setuptools-34.3.3-py2.py3-none-any.whl (389kB)
    100% |████████████████████| 399kB 2.2MB/s
Requirement already up-to-date: shutilwhich==1.1.0 in /opt/crossbar/
site-packages (from crossbar)
Requirement already up-to-date: six==1.10.0 in /opt/crossbar/site-
packages (from crossbar)
Collecting sortedcontainers==1.5.7 (from crossbar)
  Downloading sortedcontainers-1.5.7-py2.py3-none-any.whl
Collecting tqdm==17.3.1 (from crossbar)
  Downloading tqdm-17.3.1-py2.py3-none-any.whl (41kB)
    100% |████████████████████| 51kB 6.7MB/s
Collecting txaiio==2.6.2 (from crossbar)
  Downloading txaiio-2.6.2-py2.py3-none-any.whl
Collecting u-msgpack-python==2.3.0 (from crossbar)
  Downloading u_msgpack_python-2.3.0-py2.py3-none-any.whl
Collecting watchdog==0.8.3 (from crossbar)
  Downloading watchdog-0.8.3.tar.gz (83kB)
    100% |████████████████████| 92kB 7.0MB/s
Collecting zope.interface==4.3.3 (from crossbar)
  Downloading zope.interface-4.3.3.tar.gz (150kB)
    100% |████████████████████| 153kB 4.8MB/s
Building wheels for collected packages: MarkupSafe, PyNaCl,
PyQRCode, PyTrie, PyYAML, Twisted, bitstring, cffi, cryptography,
lmbd, pathtools, psutil, py-ubjson, pycparser, sdnofify,
setproctitle, watchdog, zope.interface
  Running setup.py bdist_wheel for MarkupSafe ... done
  Stored in directory: /root/.cache/pip/wheels/88/a7/30/
e39a54a87bcbe25308fa3ca64e8ddc75d9b3e5afa21ee32d57
  Running setup.py bdist_wheel for PyNaCl ... done
  Stored in directory: /root/.cache/pip/wheels/9f/
b3/16/3bea9cd6afcfb2be4f3d831e691f3bba1ccfc520fb6e487cab
  Running setup.py bdist_wheel for PyQRCode ... done
  Stored in directory: /root/.cache/pip/wheels/
79/84/80/5909ca01732597bfd7d04d368689dc1c84736f9314fed2003a
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Running setup.py bdist_wheel for PyTrie ... done
Stored in directory: /root/.cache/pip/wheels/
85/64/76/9e0fd10d9e9e52e6d0b19886a7d42ec9841ce0c3f312871774
Running setup.py bdist_wheel for PyYAML ... done
Stored in directory: /root/.cache/pip/wheels/2c/
f7/79/13f3a12cd723892437c0cfbde1230ab4d82947ff7b3839a4fc
Running setup.py bdist_wheel for Twisted ... done
Stored in directory: /root/.cache/pip/wheels/65/e3/44/
cd3da92c03926aabc80e658e11d6e64619abce3ef44c1c34df
Running setup.py bdist_wheel for bitstring ... done
Stored in directory: /root/.cache/pip/wheels/e9/16/2c/
89c3bc78c99908c74f8de29eaf8e75915dfd91b2323cef862a
Running setup.py bdist_wheel for cffi ... done
Stored in directory: /root/.cache/pip/wheels/7c/
c4/64/889d3d2de89188ed0fcb0b313106338f06127874911eeb4c96
Running setup.py bdist_wheel for cryptography ... done
Stored in directory: /root/.cache/pip/wheels/c2/12/
b8/54077d2a681ad55e244675c3bad78ed27e01916b96f63a32cc
Running setup.py bdist_wheel for lmbd ... done
Stored in directory: /root/.cache/pip/wheels/62/51/59/
e16215fc2708cf2f0a1cf85ca1d4a53d84a3a25801961b8260
Running setup.py bdist_wheel for pathtools ... done
Stored in directory: /root/.cache/pip/wheels/60/0d/2a/
ffe065d190b580be6af9a862c68ed6a8a89c1778bd5c7ba7b8
Running setup.py bdist_wheel for psutil ... done
Stored in directory: /root/.cache/pip/wheels/ff/7a/15/
e3e4da457a37edc1674f17103c05e6780bab4c5e3b105d1502
Running setup.py bdist_wheel for py-ubjson ... done
Stored in directory: /root/.cache/pip/wheels/72/70/fa/
66536f79c74be137df2888c5a5201431e4a3dcb9cc2d2d3cdb
Running setup.py bdist_wheel for pycparser ... done
Stored in directory: /root/.cache/pip/wheels/a8/0b/41/
dc95621f9d3a0da7bc191b8a71f0e8182ffd3cc5f33ac55005
Running setup.py bdist_wheel for sdnofity ... done
Stored in directory: /root/.cache/pip/wheels/1c/29/
f5/7cab110930f41af2f53d1c20fad96e13de25ec373e5ee6dc9e
Running setup.py bdist_wheel for setproctitle ... done
Stored in directory: /root/.cache/pip/wheels/5b/e6/ac/
0a9f3ba8962551d270aa651226c7ccb561b3c3f94063cb2f27
Running setup.py bdist_wheel for watchdog ... done
Stored in directory: /root/.cache/pip/wheels/3c/9c/be/
e82ae5a37c19baf8abe88623d1f47d2d502bed7b54d4f34740
Running setup.py bdist_wheel for zope.interface ... done
Stored in directory: /root/.cache/pip/wheels/00/aa/8b/
f1d1eb398423e59894b45ee151344e243808156c2d182c9f4e
Successfully built MarkupSafe PyNaCl PyQRCode PyTrie PyYAML Twisted
bitstring cffi cryptography lmbd pathtools psutil py-ubjson
pycparser sdnofity setproctitle watchdog zope.interface
Installing collected packages: attrs, Automat, MarkupSafe, Jinja2,
PyNaCl, PyQRCode, sortedcontainers, PyTrie, PyYAML, Pygments,
appdirs, pyparsing, packaging, setuptools, zope.interface,
constantly, incremental, Twisted, argh, asn1crypto, txaiio, autobahn,
bitstring, cffi, click, idna, enum34, ipaddress, cryptography, lmbd,
mistune, netaddr, pathtools, psutil, py-ubjson, pyOpenSSL, pyasn1,
```

pycparser, sdnotify, setproctitle, treq, u-msgpack-python, watchdog, crossbar

```
Found existing installation: attrs 15.2.0
Uninstalling attrs-15.2.0:
  Successfully uninstalled attrs-15.2.0
Found existing installation: MarkupSafe 0.23
Uninstalling MarkupSafe-0.23:
  Successfully uninstalled MarkupSafe-0.23
Found existing installation: Jinja2 2.8
Uninstalling Jinja2-2.8:
  Successfully uninstalled Jinja2-2.8
Found existing installation: PyNaCl 1.0.1
Uninstalling PyNaCl-1.0.1:
  Successfully uninstalled PyNaCl-1.0.1
Found existing installation: PyTrie 0.2
Uninstalling PyTrie-0.2:
  Successfully uninstalled PyTrie-0.2
Found existing installation: PyYAML 3.11
Uninstalling PyYAML-3.11:
  Successfully uninstalled PyYAML-3.11
Found existing installation: Pygments 2.1.3
Uninstalling Pygments-2.1.3:
  Successfully uninstalled Pygments-2.1.3
Found existing installation: setuptools 20.9.0
Uninstalling setuptools-20.9.0:
  Successfully uninstalled setuptools-20.9.0
Found existing installation: zope.interface 4.1.3
Uninstalling zope.interface-4.1.3:
  Successfully uninstalled zope.interface-4.1.3
Found existing installation: Twisted 16.1.1
Uninstalling Twisted-16.1.1:
  Successfully uninstalled Twisted-16.1.1
Found existing installation: txaio 2.3.1
Uninstalling txaio-2.3.1:
  Successfully uninstalled txaio-2.3.1
Found existing installation: autobahn 0.13.1
Uninstalling autobahn-0.13.1:
  Successfully uninstalled autobahn-0.13.1
Found existing installation: cffi 1.5.2
Can't uninstall 'cffi'. No files were found to uninstall.
Found existing installation: click 6.6
Uninstalling click-6.6:
  Successfully uninstalled click-6.6
Found existing installation: idna 2.1
Uninstalling idna-2.1:
  Successfully uninstalled idna-2.1
Found existing installation: enum34 1.1.3
Uninstalling enum34-1.1.3:
  Successfully uninstalled enum34-1.1.3
Found existing installation: ipaddress 1.0.16
Uninstalling ipaddress-1.0.16:
  Successfully uninstalled ipaddress-1.0.16
Found existing installation: cryptography 1.3.1
Uninstalling cryptography-1.3.1:
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    Successfully uninstalled cryptography-1.3.1
Found existing installation: lmbd 0.89
Uninstalling lmbd-0.89:
  Successfully uninstalled lmbd-0.89
Found existing installation: mistune 0.7.2
Uninstalling mistune-0.7.2:
  Successfully uninstalled mistune-0.7.2
Found existing installation: netaddr 0.7.18
Uninstalling netaddr-0.7.18:
  Successfully uninstalled netaddr-0.7.18
Found existing installation: psutil 4.1.0
Uninstalling psutil-4.1.0:
  Successfully uninstalled psutil-4.1.0
Found existing installation: pyOpenSSL 16.0.0
Uninstalling pyOpenSSL-16.0.0:
  Successfully uninstalled pyOpenSSL-16.0.0
Found existing installation: pyasn1 0.1.9
Uninstalling pyasn1-0.1.9:
  Successfully uninstalled pyasn1-0.1.9
Found existing installation: sdnofity 0.3.0
Uninstalling sdnofity-0.3.0:
  Successfully uninstalled sdnofity-0.3.0
Found existing installation: setproctitle 1.1.9
Uninstalling setproctitle-1.1.9:
  Successfully uninstalled setproctitle-1.1.9
Found existing installation: treq 15.1.0
Uninstalling treq-15.1.0:
  Successfully uninstalled treq-15.1.0
Found existing installation: crossbar 0.13.2
Uninstalling crossbar-0.13.2:
  Successfully uninstalled crossbar-0.13.2
Successfully installed Automat-0.5.0 Jinja2-2.9.5 MarkupSafe-1.0
PyNaCl-1.1.1 PyQRcode-1.2.1 PyTrie-0.3 PyYAML-3.12 Pygments-2.2.0
Twisted-17.1.0 appdirs-1.4.3 argh-0.26.2 asn1crypto-0.22.0
attrs-16.3.0 autobahn-0.18.1 bitstring-3.1.5 cffi-1.10.0 click-6.7
constantly-15.1.0 crossbar-17.3.1 cryptography-1.8.1 enum34-1.1.6
idna-2.5 incremental-16.10.1 ipaddress-1.0.18 lmbd-0.92
mistune-0.7.4 netaddr-0.7.19 packaging-16.8 pathtools-0.1.2
psutil-5.2.1 py-ubjson-0.9.0 pyOpenSSL-16.2.0 pyasn1-0.2.3
pycparser-2.17 pyparsing-2.2.0 sdnofity-0.3.1 setproctitle-1.1.10
setuptools-34.3.3 sortedcontainers-1.5.7 treq-17.3.1 txai-2.6.2 u-
msgpack-python-2.3.0 watchdog-0.8.3 zope.interface-4.3.3
```

```
# /opt/crossbar/bin/pypy -m 'pip' list | grep crossbar
DEPRECATION: The default format will switch to columns in the
future. You can use --format=(legacy|columns) (or define a
format=(legacy|columns) in your pip.conf under the [list] section)
to disable this warning.
crossbar (17.3.1)
```

```
# /opt/crossbar/bin/pypy -m 'pip' check
crossbar 17.3.1 has requirement cffi==1.10.0, but you have cffi
1.5.2.
```

```
# /opt/crossbar/bin/crossbar version
Traceback (most recent call last):
  File "/opt/crossbar/bin/crossbar", line 7, in <module>
    from crossbar.controller.cli import run
  File "/opt/crossbar/site-packages/crossbar/controller/cli.py",
line 120, in <module>
    node_classes = get_node_classes()
  File "/opt/crossbar/site-packages/crossbar/controller/cli.py",
line 105, in get_node_classes
    e = entrypoint.load()
  File "/opt/crossbar/site-packages/pkg_resources/__init__.py", line
2301, in load
    self.require(*args, **kwargs)
  File "/opt/crossbar/site-packages/pkg_resources/__init__.py", line
2324, in require
    items = working_set.resolve(reqs, env, installer,
extras=self.extras)
  File "/opt/crossbar/site-packages/pkg_resources/__init__.py", line
859, in resolve
    raise VersionConflict(dist, req).with_context(dependent_req)
VersionConflict: (cffi 1.5.2 (/opt/crossbar/lib_pypy),
Requirement.parse('cffi==1.10.0'))

# /opt/crossbar/bin/pypy -m 'pip' install --upgrade cffi
Collecting cffi
Installing collected packages: cffi
  Found existing installation: cffi 1.5.2
    Can't uninstall 'cffi'. No files were found to uninstall.
Successfully installed cffi-1.10.0
```