



```
sai@SAI: ~/caldera/caldera
Traceback (most recent call last):
  File "/home/sai/caldera/caldera/server.py", line 385, in <module>
    run_tasks(services=app_svc.get_services(), run_vue_server=args.uiDevHost)
  File "/home/sai/caldera/caldera/server.py", line 81, in run_tasks
    loop.run_until_complete(app_svc.register_contacts())
  File "/usr/lib/python3.12/asyncio/base_events.py", line 687, in run_until_complete
    return future.result()
           ~~~~~
  File "/home/sai/caldera/caldera/app/service/app_svc.py", line 163, in register_contacts
    contact_class = import_module(contact_module_name).Contact
           ~~~~~
  File "/usr/lib/python3.12/importlib/_init_.py", line 98, 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 1368, 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/sai/caldera/caldera/app/contacts/contact_tcp.py", line 9, in <module>
    from plugins.manx.app.c_session import Session
ModuleNotFoundError: No module named 'plugins.manx.app'
(venv) sai@SAI:~/caldera/caldera$ 
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sai@SAI: ~/caldera/caldera
a2-1.5.1 aiohttp-security-0.4.0 aiosignal-1.4.0 alabaster-0.7.16 apiscspec-6.9.0 asynccssh-2.20.0 attrs-25.4.0 babel-2.17.0 certifi-2026.1.4 cffi-2.0.0 charset_normalizer-3.4.4 croniter-3.0.4 cryptography-44.0.1 cssselect2-0.8.0 dirhash-0.2.1 dnspython-2.6.1 docutils-0.18.1 frozenlist-1.8.0 idna-3.11 imagesize-1.4.1 jinja2-3.1.6 ldap3-2.9.1 lxml-6.0.2 markdown-it-py-3.0.0 marshmallow-3.26.2 marshmallow_enum-1.5.1 mdit-py-plugins-0.5.0 mdurl-0.1.2 multidict-6.7.1 myst-parser-2.0.0 packaging-2.3.2 pathspec-1.0.4 pillow-12.1.0 propacache-0.4.1 pyasn1-0.5.1 pycparser-3.0 python-dateutil-2.9.0.post0 pytz-2025.2 pyyaml-6.0.1 reportlab-4.0.4 requests-2.32.5 rich-13.7.0 scanatee-0.6.4 setupools-78.1.1 six-1.17.0 snowballstemmer-3.0.1 sphinx_rtd_theme-1.3.0 sphinxcontrib-applehelp-2.0.0 sphinxcontrib-devhelp-2.0.0 sphinxcontrib-htmlhelp-1.0 sphinxcontrib-jquery-4.1 sphinxcontrib-jsmath-1.0.1 sphinxcontrib-qthelp-2.0.0 sphinxcontrib-serializinghtml-2.0.0 svglib-1.5.1 tinycss2-1.5.1 typing_extensions-4.15.0 urlib3-2.6.3 webargs-8.7.1 webencodings-0.5.1 websockets-15.0 yarl-1.22.0
(venv) sai@SAI:~/caldera/caldera$ python server.py --insecure
2026-01-30 10:45:24 WARNING --insecure flag set. Caldera will use the server.py:234
          default user accounts in default.yml
          config file.
INFO     Using main config from conf/default.yml   server.py:243
WARNING  Built Caldera v5 Vue components not      server.py:291
detected, and '-build' flag not
supplied. If attempting to start Caldera
v5 for the first time, the '--build' flag
must be supplied to trigger the building
of the Vue source components.
2026-01-30 10:45:25 ERROR go does not meet the minimum version of app_svc.py:188
1.19
INFO     Invalid Github Gist personal API      contact_gist.py:70
token provided. Gist C2 contact will
not be started.
Traceback (most recent call last):
  File "/home/sai/caldera/caldera/server.py", line 385, in <module>
    run_tasks(services=app_svc.get_services(), run_vue_server=args.uiDevHost)
  File "/home/sai/caldera/caldera/server.py", line 81, in run_tasks
    loop.run_until_complete(app_svc.register_contacts())
  File "/usr/lib/python3.12/asyncio/base_events.py", line 687, in run_until_complete
    return future.result()
           ~~~~~
  File "/home/sai/caldera/caldera/app/service/app_svc.py", line 163, in register_contacts
    contact_class = import_module(contact_module_name).Contact
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  File "/usr/lib/python3.12/importlib/_init_.py", line 98, 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 1368, 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/sai/caldera/caldera/app/contacts/contact_tcp.py", line 9, in <module>
    from plugins.manx.app.c_session import Session
ModuleNotFoundError: No module named 'plugins.manx.app'
(venv) sai@SAI:~/caldera/caldera$ 
```



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sai@SAI: ~/caldera/caldera
Using cached cssselect2==0.8.0-py3-none-any.whl.metadata (2.9 kB)
Collecting typing_extensions>=4.0.0 (from asynccssh==2.20.0->-r requirements.txt (line 24))
  Using cached typing_extensions-4.15.0-py3-none-any.whl.metadata (3.3 kB)
Collecting python-dateutil (from croniter<=3.0.3->-r requirements.txt (line 27))
  Using cached python_dateutil-2.9.0.post0-py2.py3-none-any.whl.metadata (8.4 kB)
Collecting pytz>=2021.1 (from croniter<=3.0.3->-r requirements.txt (line 27))
  Using cached pytz-2025.2-py2.py3-none-any.whl.metadata (22 kB)
Collecting pycparser (from cffi>=1.12->cryptographia==44.0.1->-r requirements.txt (line 8))
  Using cached pycparser-3.0-py3-none-any.whl.metadata (8.2 kB)
Collecting webencodings (from cssselect2)>=2.0->svglib==1.5.1->-r requirements.txt (line 21)
  Using cached webencodings-0.5.1-py2.py3-none-any.whl.metadata (2.1 kB)
Collecting mdurl=>0.1.2-py3-none-any.whl.metadata (1.6 kB)
  Using cached mdurl-0.1.2-py3-none-any.whl.metadata (2.1 kB)
Collecting charset_normalizer<=3.0.2-py3-none-any.whl.metadata (2.0 kB)
  Using cached charset_normalizer-3.4.4-cp312-cp312-manylinux2014_x86_64.manylinux_2_17_x86_64.manylinux_2_28_x86_64.whl.metadata (37 kB)
Collecting idna<,>=2.5 (from requests>=2.25.0->Sphinx==7.1.2->-r requirements.txt (line 10))
  Using cached idna-3.11-py3-none-any.whl.metadata (8.4 kB)
Collecting urllib3<3,>=1.21.1 (from requests>=2.25.0->Sphinx==7.1.2->-r requirements.txt (line 10))
  Using cached urllib3-2.6.3-py3-none-any.whl.metadata (6.9 kB)
Collecting certifi>=2017.4.17 (from requests>=2.25.0->Sphinx==7.1.2->-r requirements.txt (line 10))
  Using cached certifi-2026.1.4-py3-none-any.whl.metadata (2.5 kB)
Collecting pathspec>=0.10.1 (from requests>=2.25.0->dirhash==0.2.1->-r requirements.txt (line 14))
  Using cached pathspec-1.0.4-py3-none-any.whl.metadata (13 kB)
Collecting six>=1.5 (from python-toml>=0.14.0->croniter<=3.0.3->-r requirements.txt (line 27))
  Using cached six-1.17.0-py2.py3-none-any.whl.metadata (1.7 kB)
Using cached aiohttp_jinja2<1.5.1-py3-none-any.whl (11 kB)
Using cached aiohttp-3.19.3-cp312-cp312-manylinux2014_x86_64.manylinux_2_17_x86_64.manylinux_2_28_x86_64.whl (1.8 MB)
Using cached aiohttp_session-2.1.0-py3-none-any.whl (12 kB)
Using cached aiohttp_security-0.4.0-py3-none-any.whl (6.9 kB)
Using cached jinja2-3.1.6-py3-none-any.whl (134 kB)
Using cached PyYAML-6.0.1-cp312-cp312-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (724 kB)
Using cached cryptography-44.0.1-cp39-abi3-manylinux_2_34_x86_64.whl (4.2 MB)
Using cached websockets-15.0-cp312-cp312-manylinux_2_5_x86_64.manylinux1_x86_64.manylinux_2_17_x86_64.manylinux2014_x86_64.whl (181 kB)
Using cached sphinx-7.1.2-py3-none-any.whl (3.2 kB)
Using cached sphinx_rtd_theme-1.3.0-py2.py3-none-any.whl (2.8 kB)
Using cached myst_parser-2.0.0-py3-none-any.whl (77 kB)
Using cached marshmallow-3.26.2-py3-none-any.whl (58 kB)
Using cached dirhash-0.2.1-py3-none-any.whl (12 kB)
Using cached marshmallow_enum-1.5.1-py2.py3-none-any.whl (4.2 kB)
Using cached ldap3-2.9.1-py2.py3-none-any.whl (432 kB)
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Using cached aiohttp/eyeballs>=2.6.1-py3-none-any.whl.metadata (5.9 kB)
Collecting aiosignal>=1.4.0 (from aiohttp==3.13.3->-r requirements.txt (line 2))
  Using cached aiosignal-1.4.0-py3-none-any.whl.metadata (3.7 kB)
Collecting attrs>=17.3.0 (from aiohttp==3.13.3->-r requirements.txt (line 2))
  Using cached attrs-25.4.0-py3-none-any.whl.metadata (10 kB)
Collecting frozenlist>=1.1.1 (from aiohttp==3.13.3->-r requirements.txt (line 2))
  Using cached frozenlist-1.8.0-cp312-cp312-manylinux1_x86_64.manylinux_2_28_x86_64.manylinux_2_5_x86_64.whl.metadata (20 kB)
Collecting multidict>7.0,>4.5 (from aiohttp==3.13.3->-r requirements.txt (line 2))
  Using cached multidict-6.7.1-cp312-cp312-manylinux2014_x86_64.manylinux_2_17_x86_64.manylinux_2_28_x86_64.whl.metadata (5.3 kB)
Collecting propcase>=0.2.0 (from aiohttp==3.13.3->-r requirements.txt (line 2))
  Using cached propcase-0.4.1-cp312-cp312-manylinux2014_x86_64.manylinux_2_17_x86_64.manylinux_2_28_x86_64.whl.metadata (13 kB)
Collecting yarl<0.17.0,>=1.1.0 (from aiohttp==3.13.3->-r requirements.txt (line 2))
  Using cached yarl-1.22.0-cp312-cp312-manylinux2014_x86_64.manylinux_2_17_x86_64.manylinux_2_28_x86_64.whl.metadata (75 kB)
Collecting apspec>=1.1.0 (from aiohttp==3.13.3->-r requirements.txt (line 2))
  Using cached apspec-6.9.0-py3-none-any.whl.metadata (10 kB)
Collecting webargs>=8.0.1 (from aiohttp==3.13.3->-r requirements.txt (line 5))
  Using cached webargs-8.7.1-py3-none-any.whl.metadata (6.7 kB)
Collecting MarkupSafe>=2.0 (from jinja2==3.1.6->-r requirements.txt (line 6))
  Using cached MarkupSafe-3.0.3-cp312-cp312-manylinux2014_x86_64.manylinux_2_17_x86_64.manylinux_2_28_x86_64.whl.metadata (2.7 kB)
Collecting cffi>=1.12 (from cryptography==44.0.1->-r requirements.txt (line 8))
  Using cached cffi-2.0.0-cp312-cp312-manylinux2014_x86_64.manylinux_2_17_x86_64.whl.metadata (2.6 kB)
Collecting sphinxcontrib-applehelp (from Sphinx==7.1.2->-r requirements.txt (line 10))
  Using cached sphinxcontrib_applehelp-2.0.0-py3-none-any.whl.metadata (2.3 kB)
Collecting sphinxcontrib-devhelp (from Sphinx==7.1.2->-r requirements.txt (line 10))
  Using cached sphinxcontrib_devhelp-2.0.0-py3-none-any.whl.metadata (2.3 kB)
Collecting sphinxcontrib-jsmath (from Sphinx==7.1.2->-r requirements.txt (line 10))
  Using cached sphinxcontrib_jsmath-1.0.1-py2.py3-none-any.whl.metadata (1.4 kB)
Collecting sphinxcontrib-htmlhelp>=2.0.0 (from Sphinx==7.1.2->-r requirements.txt (line 10))
  Using cached sphinxcontrib_htmlhelp-2.1.0-py3-none-any.whl.metadata (2.3 kB)
Collecting sphinxcontrib_serializinghtml>=1.1.5 (from Sphinx==7.1.2->-r requirements.txt (line 10))
  Using cached sphinxcontrib_serializinghtml-2.0.0-py3-none-any.whl.metadata (2.4 kB)
Collecting sphinxcontrib-qthelp (from Sphinx==7.1.2->-r requirements.txt (line 10))
  Using cached sphinxcontrib_qthelp-2.0.0-py3-none-any.whl.metadata (2.3 kB)
Collecting Pygments>=2.13 (from Sphinx==7.1.2->-r requirements.txt (line 10))
  Using cached Pygments-2.19.0-py3-none-any.whl.metadata (2.5 kB)
Collecting docutils<0.18.1,>=0.18.1 (from Sphinx==7.1.2->-r requirements.txt (line 10))
  Using cached docutils-0.20.0-py3-none-any.whl.metadata (2.8 kB)
Collecting snowballstemmer>=2.0 (from Sphinx==7.1.2->-r requirements.txt (line 10))
  Using cached snowballstemmer-3.0.1-py3-none-any.whl.metadata (7.9 kB)
Collecting babel>=2.9 (from Sphinx==7.1.2->-r requirements.txt (line 10))
Collecting sphinxcontrib-templetes (from Sphinx==7.1.2->-r requirements.txt (line 10))
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sai@SAI: ~/caldera/caldera
Reading state information... Done
python3-pip is already the newest version (24.0+dfsg-1ubuntu1.3).
0 upgraded, 0 newly installed, 0 to remove and 21 not upgraded.
(caldera-env) sai@SAI:~/caldera$ git clone https://github.com/mitre/caldera.git
cd caldera
Cloning into 'caldera'...
remote: Enumerating objects: 25695, done.
remote: Counting objects: 100% (274/274), done.
remote: Compressing objects: 100% (127/127), done.
remote: Total 25695 (delta 200), reused 161 (delta 147), pack-reused 25421 (from 3)
Receiving objects: 100% (17318/17318), done.
Resolving deltas: 100% (17318/17318), done.
(caldera-env) sai@SAI:~/caldera/caldera$ python3 -m venv venv
source venv/bin/activate
(venv) sai@SAI:~/caldera/caldera$ pip install -r requirements.txt
Collecting aiohttp-jinja2==1.5.1 (from -r requirements.txt (line 1))
  Using cached aiohttp_jinja2-1.5.1-py3-none-any.whl.metadata (8.1 kB)
Collecting aiohttp==3.13.3-cp312-cp312-manylinux2014_x86_64.manylinux_2_17_x86_64.manylinux_2_28_x86_64.whl.metadata (8.1 kB)
Collecting aiohttp_sessions==2.12.0 (from -r requirements.txt (line 3))
  Using cached aiohttp_session-2.12.0-py3-none-any.whl.metadata (8.4 kB)
Collecting aiohttp_security==0.4.0 (from -r requirements.txt (line 4))
  Using cached aiohttp_security-0.4.0-py3-none-any.whl.metadata (2.9 kB)
Collecting aiohttp_apispec==3.0.0b2 (from -r requirements.txt (line 5))
  Using cached aiohttp_apispec-3.0.0b2-py3-none-any.whl
Collecting jinja2==3.1.6 (from -r requirements.txt (line 6))
  Using cached jinja2-3.1.6-py3-none-any.whl.metadata (2.9 kB)
Collecting pyyaml==6.0.1 (from -r requirements.txt (line 7))
  Using cached PyYAML-6.0.1-cp312-cp312-manylinux2014_x86_64.manylinux2014_x86_64.whl.metadata (2.1 kB)
Collecting cryptography==44.0.1 (from -r requirements.txt (line 8))
  Using cached cryptography-44.0.1-cp39abi3-manylinux_2_17_x86_64.whl.metadata (5.7 kB)
Collecting websockets==15.0 (from -r requirements.txt (line 9))
  Using cached websockets-15.0-cp312-cp312-manylinux_2_5_x86_64.manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metadata (6.8 kB)
Collecting Sphinx==7.1.2 (from -r requirements.txt (line 10))
  Using cached sphinx-7.1.2-py3-none-any.whl.metadata (5.8 kB)
Collecting sphinx_rtd_theme==1.3.0 (from -r requirements.txt (line 11))
  Using cached sphinx_rtd_theme-1.3.0-py3-none-any.whl.metadata (4.5 kB)
Collecting myst-parser==2.0.0 (from -r requirements.txt (line 12))
  Using cached myst_parser-2.0.0-py3-none-any.whl.metadata (5.4 kB)
Collecting marshmallow==3.26.2 (from -r requirements.txt (line 13))

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sai@SAI: ~/caldera/caldera
Requirement already satisfied: snowballstemmer>=2.0 in ./caldera-env/lib/python3.12/site-packages (from Sphinx==7.1.2->-r requirements.txt (line 10)) (3.0.1)
Requirement already satisfied: babel>=2.9 in ./caldera-env/lib/python3.12/site-packages (from Sphinx==7.1.2->-r requirements.txt (line 10)) (2.17.0)
Requirement already satisfied: alabaster>0.8.>0.7 in ./caldera-env/lib/python3.12/site-packages (from Sphinx==7.1.2->-r requirements.txt (line 10)) (0.7.16)
Requirement already satisfied: imagesize>=1.3 in ./caldera-env/lib/python3.12/site-packages (from Sphinx==7.1.2->-r requirements.txt (line 10)) (1.4.1)
Requirement already satisfied: requests>=2.25.0 in ./caldera-env/lib/python3.12/site-packages (from Sphinx==7.1.2->-r requirements.txt (line 10)) (2.32.5)
Requirement already satisfied: sphinxcontrib-jquery<,>4 in ./caldera-env/lib/python3.12/site-packages (from sphinxcontrib-jquery==2.0.4->-r requirements.txt (line 11)) (4.1)
Requirement already satisfied: markdown_it-py>~3.0 in ./caldera-env/lib/python3.12/site-packages (from myst-parser==2.0.0->-r requirements.txt (line 12)) (3.0.0)
Requirement already satisfied: mdit-py-plugins>=0.4 in ./caldera-env/lib/python3.12/site-packages (from myst-parser==2.0.0->-r requirements.txt (line 12)) (0.5.0)
Requirement already satisfied: sancntree>0.0.1 in ./caldera-env/lib/python3.12/site-packages (from sancntree==0.2.1->-r requirements.txt (line 14)) (0.0.4)
Requirement already satisfied: pillow>9.0.0 in ./caldera-env/lib/python3.12/site-packages (from reportlab==4.0.4->-r requirements.txt (line 18)) (12.1.0)
Requirement already satisfied: tinyccs2>=0.6.0 in ./caldera-env/lib/python3.12/site-packages (from svglib==1.5.1->-r requirements.txt (line 21)) (1.5.1)
Requirement already satisfied: cssselect2>=0.2.0 in ./caldera-env/lib/python3.12/site-packages (from svglib==1.5.1->-r requirements.txt (line 21)) (0.8.0)
Requirement already satisfied: typing_extensions>=4.0.0 in ./caldera-env/lib/python3.12/site-packages (from asynccssh==2.20.0->-r requirements.txt (line 24)) (4.15.0)
Requirement already satisfied: python-dateutil>=2.21.1 in ./caldera-env/lib/python3.12/site-packages (from croniter=>3.0.3->-r requirements.txt (line 27)) (2.9.0.post8)
Requirement already satisfied: pytz>2021.1 in ./caldera-env/lib/python3.12/site-packages (from croniter=>3.0.3->-r requirements.txt (line 27)) (2025.2)
Requirement already satisfied: pyparser in ./caldera-env/lib/python3.12/site-packages (from cffi>1.12->cryptography==44.0.1->-r requirements.txt (line 8)) (3.0)
Requirement already satisfied: webencodings in ./caldera-env/lib/python3.12/site-packages (from cssselect2>=0.2.0->svglib==1.5.1->-r requirements.txt (line 21)) (0.5.1)
Requirement already satisfied: mdurl>=0.1 in ./caldera-env/lib/python3.12/site-packages (from markdown_it-py>~3.0->myst-parser==2.0.0->-r requirements.txt (line 12)) (0.1.2)
Requirement already satisfied: charset_normalizer<4,>=2 in ./caldera-env/lib/python3.12/site-packages (from requests=>2.25.0->Sphinx==7.1.2->-r requirements.txt (line 10)) (3.4.4)
Requirement already satisfied: idna<4,>=2.5 in ./caldera-env/lib/python3.12/site-packages (from requests=>2.25.0->Sphinx==7.1.2->-r requirements.txt (line 10)) (3.11)
Requirement already satisfied: urllib3<3,>=21.1 in ./caldera-env/lib/python3.12/site-packages (from requests=>2.25.0->Sphinx==7.1.2->-r requirements.txt (line 10)) (2.6.3)
Requirement already satisfied: certifi>=2017.4.17 in ./caldera-env/lib/python3.12/site-packages (from requests=>2.25.0->Sphinx==7.1.2->-r requirements.txt (line 10)) (2026.1.4)
Requirement already satisfied: pathspec>=0.10.1 in ./caldera-env/lib/python3.12/site-packages (from scantree=>0.0.1->dirhash=>0.2.1->-r requirements.txt (line 14)) (1.0.4)
Requirement already satisfied: six>=1.5 in ./caldera-env/lib/python3.12/site-packages (from python-dateutil->croniter=>3.0.3->-r requirements.txt (line 27)) (1.17.0)
(caldera-env) sai@SAI:~/caldera$ pip3 install --user -r requirements.txt
ERROR: Can not perform a '--user' install. User site-packages are not visible in this virtualenv.
(caldera-env) sai@SAI:~/caldera$ sudo apt update
sudo apt install python3-pip
Hit:1 https://download.docker.com/linux/ubuntu noble InRelease
Hit:2 https://packages.treasuredata.com/4/ubuntu/jammy jammy InRelease
Ign:3 https://archives.strangebee.com/repo stable InRelease
Hit:4 https://packages.wazuh.com/4/x/apt stable InRelease
Hit:5 https://artifacts.elastic.co/packages/8.x/apt stable InRelease
Hit:7 http://archive.ubuntu.com/ubuntu noble InRelease
Ign:3 https://archives.strangebee.com/repo stable InRelease
Hit:8 http://security.ubuntu.com/ubuntu noble-security InRelease
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sai@SAI: ~/caldera/caldera
Requirement already satisfied: aiohttp-apispec==3.0.0b2 in ./caldera-env/lib/python3.12/site-packages (from -r requirements.txt (line 5)) (3.0.0b2)
Requirement already satisfied: jinja2==3.1.6 in ./caldera-env/lib/python3.12/site-packages (from -r requirements.txt (line 6)) (3.1.6)
Requirement already satisfied: pyaml==6.0.1 in ./caldera-env/lib/python3.12/site-packages (from -r requirements.txt (line 7)) (6.0.1)
Requirement already satisfied: cryptography==44.0.1 in ./caldera-env/lib/python3.12/site-packages (from -r requirements.txt (line 8)) (44.0.1)
Requirement already satisfied: websockets==15.0 in ./caldera-env/lib/python3.12/site-packages (from -r requirements.txt (line 9)) (15.0)
Requirement already satisfied: Sphinx==7.1.2 in ./caldera-env/lib/python3.12/site-packages (from -r requirements.txt (line 10)) (7.1.2)
Requirement already satisfied: myst-parser==2.0.0 in ./caldera-env/lib/python3.12/site-packages (from -r requirements.txt (line 12)) (2.0.0)
Requirement already satisfied: marshmallow==3.26.2 in ./caldera-env/lib/python3.12/site-packages (from -r requirements.txt (line 13)) (3.26.2)
Requirement already satisfied: dirhash==0.2.1 in ./caldera-env/lib/python3.12/site-packages (from -r requirements.txt (line 14)) (0.2.1)
Requirement already satisfied: marshmallow_enum==1.5.1 in ./caldera-env/lib/python3.12/site-packages (from -r requirements.txt (line 15)) (1.5.1)
Requirement already satisfied: ldap3==2.9.1 in ./caldera-env/lib/python3.12/site-packages (from -r requirements.txt (line 16)) (2.9.1)
Requirement already satisfied: pyasn1==0.5.1 in ./caldera-env/lib/python3.12/site-packages (from -r requirements.txt (line 17)) (0.5.1)
Requirement already satisfied: reportlab==4.0.4 in ./caldera-env/lib/python3.12/site-packages (from -r requirements.txt (line 18)) (4.0.4)
Requirement already satisfied: rich==13.7.0 in ./caldera-env/lib/python3.12/site-packages (from -r requirements.txt (line 19)) (13.7.0)
Requirement already satisfied: lxml==6.0.2 in ./caldera-env/lib/python3.12/site-packages (from -r requirements.txt (line 20)) (6.0.2)
Requirement already satisfied: svglib==1.5.1 in ./caldera-env/lib/python3.12/site-packages (from -r requirements.txt (line 21)) (1.5.1)
Requirement already satisfied: Markdown==3.4.4 in ./caldera-env/lib/python3.12/site-packages (from -r requirements.txt (line 22)) (3.4.4)
Requirement already satisfied: dnspython==2.6.1 in ./caldera-env/lib/python3.12/site-packages (from -r requirements.txt (line 23)) (2.6.1)
Requirement already satisfied: asynssh==2.20.0 in ./caldera-env/lib/python3.12/site-packages (from -r requirements.txt (line 24)) (2.20.0)
Requirement already satisfied: aioftp==0.20.0 in ./caldera-env/lib/python3.12/site-packages (from -r requirements.txt (line 25)) (0.20.0)
Requirement already satisfied: setuptools==78.1.1 in ./caldera-env/lib/python3.12/site-packages (from -r requirements.txt (line 28)) (78.1.1)
Requirement already satisfied: aiohttp_eyeballs>=2.5.0 in ./caldera-env/lib/python3.12/site-packages (from aiohttp==3.13.3->-r requirements.txt (line 2)) (2.6.1)
Requirement already satisfied: aiosignal==1.4.0 in ./caldera-env/lib/python3.12/site-packages (from aiohttp==3.13.3->-r requirements.txt (line 2)) (1.4.0)
Requirement already satisfied: attrs>=17.3.0 in ./caldera-env/lib/python3.12/site-packages (from aiohttp==3.13.3->-r requirements.txt (line 2)) (25.4.0)
Requirement already satisfied: frozenlist>1.1.1 in ./caldera-env/lib/python3.12/site-packages (from aiohttp==3.13.3->-r requirements.txt (line 2)) (1.8.0)
Requirement already satisfied: multidict>7.0,>4.5 in ./caldera-env/lib/python3.12/site-packages (from aiohttp==3.13.3->-r requirements.txt (line 2)) (6.7.1)
Requirement already satisfied: propcache==0.2.0 in ./caldera-env/lib/python3.12/site-packages (from aiohttp==3.13.3->-r requirements.txt (line 2)) (0.4.1)
Requirement already satisfied: yarl<2.0,>=1.17.0 in ./caldera-env/lib/python3.12/site-packages (from aiohttp==3.13.3->-r requirements.txt (line 2)) (1.22.0)
Requirement already satisfied: apspec==5.1.1 in ./caldera-env/lib/python3.12/site-packages (from aiohttp_apispec==3.0.0b2->-r requirements.txt (line 5)) (6.9.0)
Requirement already satisfied: webargs==8.0.1 in ./caldera-env/lib/python3.12/site-packages (from aiohttp_apispec==3.0.0b2->-r requirements.txt (line 5)) (8.7.1)
Requirement already satisfied: MarkupSafe==2.0 in ./caldera-env/lib/python3.12/site-packages (from jinja2==3.1.6->-r requirements.txt (line 6)) (3.0.3)
Requirement already satisfied: cffi>=1.12 in ./caldera-env/lib/python3.12/site-packages (from cryptography==44.0.1->-r requirements.txt (line 8)) (2.0.8)
Requirement already satisfied: sphinxcontrib-applehelp in ./caldera-env/lib/python3.12/site-packages (from Sphinx==7.1.2->-r requirements.txt (line 10)) (2.0.8)
Requirement already satisfied: sphinxcontrib-devhelp in ./caldera-env/lib/python3.12/site-packages (from Sphinx==7.1.2->-r requirements.txt (line 10)) (2.0.8)
Requirement already satisfied: sphinxcontrib-jsmath in ./caldera-env/lib/python3.12/site-packages (from Sphinx==7.1.2->-r requirements.txt (line 10)) (1.0.1)
Requirement already satisfied: sphinxcontrib-htmlhelp>=2.0.0 in ./caldera-env/lib/python3.12/site-packages (from Sphinx==7.1.2->-r requirements.txt (line 10)) (2.1.0)
Requirement already satisfied: sphinxcontrib-serializinghtml>=1.1.5 in ./caldera-env/lib/python3.12/site-packages (from Sphinx==7.1.2->-r requirements.txt (line 10)) (2.0.0)
Requirement already satisfied: sphinxcontrib-serializinghtml>=1.1.5 in ./caldera-env/lib/python3.12/site-packages (from Sphinx==7.1.2->-r requirements.txt (line 10)) (2.0.0)

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sai@SAI: ~/caldera/caldera
Downloading mdurl-0.1.2-py3-none-any.whl (10.0 kB)
Downloading pathspec-1.0.4-py3-none-any.whl (55 kB)
      55.2/55.2 kB 1.8 MB/s eta 0:00:00
Downloading six-1.17.0-py2.py3-none-any.whl (11 kB)
      11.0/11.0 kB 3.4 MB/s eta 0:00:00
Downloading webencodings-0.5.1-py2.py3-none-any.whl (11 kB)
Downloading pycparser-3.0-py3-none-any.whl (48 kB)
      48.2/48.2 kB 1.8 MB/s eta 0:00:00
Building wheels for collected packages: aiohttp-apispec, svglib
  Building wheel for aiohttp-apispec (pyproject.toml) ... done
    Created wheel for aiohttp-apispec: filename=aiohttp_apispec-1.0.0-py3-none-any.whl size=2672923 sha256=fcc718c987757082a81d5aa3e54e3364a363c4cd69e8e7b9b662f5543b6cd0263
  Stored in directory: /home/sai/.cache/pip/wheels/c7/07/04/2311ba86926afcfc30da20949f30221ca1f6206a08b81ee6cb5
  Building wheel for svglib (pyproject.toml) ... done
    Created wheel for svglib: filename=svglib-1.5.1-py3-none-any.whl size=30946 sha256=c98e3f26b255b3811ab428504b5c53b42b54f110a83b4f07923b1e9da2383092
  Stored in directory: /home/sai/.cache/pip/wheels/9c/a3/80/b15b7e7a0fc099803bfe258ec8e0b09db5ad1e1b087171c5
Successfully built aiohttp-apispec svglib
Installing collected packages: webencodings, pytz, websockets, urllib3, typing_extensions, tinycc2, sphinxcontrib-serializinghtml, sphinxcontrib-qthelp, sphinxcontrib-jsmath, sphinxcontrib-htmlhelp, sphinxcontrib-devhelp, sphinxcontrib-applehelp, snowballstemmer, six, setuptools, pyyaml, Pygments, pycparser, pyasn1, propcache, pillow, pathspec, packaging, multidict, mdurl, MarkupSafe, Markdown, lxml, imagesize, idna, frozenlist, docutil, dnspython, charset_normalizer, certifi, babel, attrs, alabaster, aiohttp_eyeballs, aioftp, yarl, scantree, requests, reportlab, python-dateutil, marshmallow, markdown-it-py, ldap3, jinja2, cssselect2, cffi, apspec, aiosignal, webargs, svglib, Sphinx, rich, mdit-py-plugins, marshmallow_enum, dirhash, cryptography, croniter, aiohttp, sphinxcontrib-jquery, myst-parser, asynssh, aiohttp_session, aiohttp_security, aiohttp_jinja2, aiohttp_apispec, sphinx_them
Successfully installed Markdown-3.4.4 MarkupSafe-0.3.0 Pygments-2.19.2 Sphinx-7.1.2 aioftp-0.20.1 aiohttp_eyeballs-2.6.1 aiohttp-3.13.3 aiohttp_apispec-3.0.0b2 aiohttp_jinja2-1.5.1 aiohttp_security-0.4.0 aiohttp_session-2.12.0 aiosignal-1.4.0 alabaster-1.16.16 apicsssh-2.20.0 attrss-25.4.0 babel-2.17.0 certifi-2026.1.4 cffi-2.0.0 charset_normalizer-3.4.4 croniter-3.0.4 cryptograph-44.0.1 csselelect-0.8.0 dirhash-0.2.1 dnspthon-2.6.1 docutil-0.18.1 frozenlist-1.8.0 idna-3.11 imagesize-1.4.1 jinja2-3.1.6 ldap3-2.9.1 lxml-6.0.2 markdown_it-py-3.0.0 marshmallow-3.26.2 marshmallow_enum-1.5.1 mdit-py-plugins-0.5.0 mdurl-0.1.2 multidict-6.7.1 myst-parser-2.0.0 packaging-2.3.2 pathspec-1.0.4 pillow-12.1.0 propcache-0.4.1 pyasn1-0.5.1 pycparser-3.0 pytz-2025.2 pyyaml-6.0.1 reportlab-4.0.4 requests-2.32.5 rich-13.7.0 scantree-0.0.4 setuptools-78.1.1 six-1.17.0 snowballstemmer-3.0.1 sphinx_rtd_theme-1.3.0 sphinxcontrib-applehelp-2.0.0 sphinxcontrib-devhelp-2.0.0 sphinxcontrib-serializinghtml-2.0.0 svglib-1.5.1 tinycc2-1.5.1 typing_extensions-4.15.0 urllib3-2.6.3 webargs-8.7.1 webencodings-0.5.1 websockets-15.0 yarl-1.22.0
(caldera-env) sai@SAI:~/caldera$ sudo apt install python3-venv
python3 -m venv caldera-env
source caldera-env/bin/activate
pip install -r requirements.txt
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
python3-venv is already the newest version (3.12.3-0ubuntu2.1).
0 upgraded, 0 newly installed, 0 to remove and 21 not upgraded.

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sai@SAI: ~/caldera/caldera
Downloading apispec-6.9.0-py3-none-any.whl (30 kB)
Downloading attrs-25.4.0-py3-none-any.whl (67 kB)
Downloading babel-2.17.0-py3-none-any.whl (18.2 MB)
Downloading cffi-2.0.0-cp312-cp312-manylinux2014_x86_64.manylinux_2_17_x86_64.whl (219 kB)
Downloading cssselect2-0.8.0-py3-none-any.whl (15 kB)
Downloading docutils-0.18.1-py2.py3-none-any.whl (579 kB)
Downloading frozenlist-1.8.0-cp312-cp312-manylinux1_x86_64.manylinux_2_28_x86_64.manylinux_2_5_x86_64.whl (242 kB)
Downloading imagesize-1.4.1-py2.py3-none-any.whl (8.8 kB)
Downloading markdown_it_py-3.0.0-py3-none-any.whl (87 kB)
Downloading markupsafe-3.0.3-cp312-cp312-manylinux2014_x86_64.manylinux_2_17_x86_64.manylinux_2_28_x86_64.whl (22 kB)
Downloading multidict-6.7.1-cp312-cp312-manylinux2014_x86_64.manylinux_2_17_x86_64.manylinux_2_28_x86_64.whl (256 kB)
Downloading pillow-12.1.0-cp312-cp312-manylinux2_27_x86_64.manylinux_2_28_x86_64.whl (7.0 MB)
Downloading propcache-0.4.1-cp312-cp312-manylinux2014_x86_64.manylinux_2_17_x86_64.manylinux_2_28_x86_64.whl (221 kB)
Downloading pygments-2.19.2-py3-none-any.whl (1.2 MB)
Downloading pytz-2025.2-py2.py3-none-any.whl (509 kB)
Downloading requests-2.32.5-py3-none-any.whl (6 kB)
Downloading scantree-0.4.4-py3-none-any.whl (20 kB)
Downloading snowballstemmer-3.0.1-py3-none-any.whl (103 kB)
Downloading sphinxcontrib_htmlhelp-2.1.0-py3-none-any.whl (98 kB)
Downloading sphinxcontrib_jquery-4.1-py2.py3-none-any.whl (121 kB)
Downloading sphinxcontrib_serializinghtml-2.0.0-py3-none-any.whl (92 kB)
Downloading tinycss2-1.5.1-py3-none-any.whl (28 kB)

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30-01-2026

sai@SAI: ~/caldera/caldera
Downloading aiohttp-3.13.3-cp312-cp312-manylinux2014_x86_64.manylinux_2_17_x86_64.manylinux_2_28_x86_64.whl (1.8 MB)
1.8/1.8 MB 3.8 MB/s eta 0:00:00
Downloading aiohttp_session-2.12.0-py3-none-any.whl (12 kB)
Downloading aiohttp_security-0.4.0-py3-none-any.whl (6.9 kB)
Downloading jinja2-3.1.6-py3-none-any.whl (134 kB)
134.9/134.9 KB 3.3 MB/s eta 0:00:00
Downloading PyYAML-6.0.1-cp312-cp312-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (724 kB)
725.0/725.0 kB 5.3 MB/s eta 0:00:00
Downloading cryptography-44.0.1-cp39-abi3-manylinux_2_34_x86_64.whl (4.2 MB)
4.2/4.2 MB 5.1 MB/s eta 0:00:00
Downloading websockets-15.0-cp312-cp312-manylinux_2_5_x86_64.manylinux1_x86_64.manylinux_2_17_x86_64.manylinux2014_x86_64.whl (181 kB)
181.8/181.8 KB 3.5 MB/s eta 0:00:00
Downloading sphinx-7.1.2-py3-none-any.whl (3.2 MB)
3.2/3.2 MB 4.7 MB/s eta 0:00:00
Downloading sphinx_rtd_theme-1.3.0-py2.py3-none-any.whl (2.8 MB)
2.8/2.8 MB 4.1 MB/s eta 0:00:00
Downloading myst_parser-2.0.0-py3-none-any.whl (77 kB)
77.2/77.2 kB 2.3 MB/s eta 0:00:00
Downloading marshmallow-3.26.2-py3-none-any.whl (58 kB)
51.0/51.0 kB 1.9 MB/s eta 0:00:00
Downloading dirhash-0.2.1-py3-none-any.whl (12 kB)
Downloading marshmallow_enum-1.5.1-py2.py3-none-any.whl (4.2 kB)
Downloading ldap3-2.9.1-py2.py3-none-any.whl (432 kB)
432.2/432.2 KB 5.2 MB/s eta 0:00:00
Downloading reportlab-4.0.4-py3-none-any.whl (1.9 MB)
1.9/1.9 MB 3.8 MB/s eta 0:00:00
Downloading rich-13.7.0-py3-none-any.whl (248 kB)
248.6/248.6 kB 3.4 MB/s eta 0:00:00
Downloading lxml-6.0.2-cp312-cp312-manylinux_2_26_x86_64.manylinux_2_28_x86_64.whl (5.3 MB)
5.3/5.3 MB 3.9 MB/s eta 0:00:00
Downloading Markdown-3.4.4-py3-none-any.whl (94 kB)
94.2/94.2 kB 2.6 MB/s eta 0:00:00
Downloading dnspython-2.6.1-py3-none-any.whl (307 kB)
307.7/307.7 kB 4.2 MB/s eta 0:00:00
Downloading asynccssh-2.20.0-py3-none-any.whl (373 kB)
373.1/373.1 kB 4.4 MB/s eta 0:00:00
Downloading packaging-23.2-py3-none-any.whl (53 kB)
53.0/53.0 kB 1.4 MB/s eta 0:00:00
Downloading setuptools-78.1.1-py3-none-any.whl (1.3 MB)
1.3/1.3 MB 5.6 MB/s eta 0:00:00

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sai@SAI: ~/caldera/caldera
  Downloading cssselect2-0.8.0-py3-none-any.whl.metadata (2.9 kB)
Collecting typing_extensions>=4.0.0 (from asynccssh==2.20.0->-r requirements.txt (line 24))
  Downloading typing_extensions-4.15.0-py3-none-any.whl.metadata (3.3 kB)
Collecting python-dateutil (<from croniter<=3.0.3->-r requirements.txt (line 27))
  Downloading python_dateutil-2.9.0.post0-py2.py3-none-any.whl.metadata (8.4 kB)
Collecting pytz>=2021.1 (<from croniter<=3.0.3->-r requirements.txt (line 27))
  Downloading pytz-2025.2-py2.py3-none-any.whl.metadata (22 kB)
Collecting pycparser (<from cffi<=1.12->-cryptography==44.0.1->-r requirements.txt (line 8))
  Downloading pycparser-3.9-py2.py3-none-any.whl.metadata (8.2 kB)
Collecting webencodings (<from cssselect2>=>2.0->-svglib==1.5.1->-r requirements.txt (line 21))
  Downloading webencodings-0.5.1-py2.py3-none-any.whl.metadata (2.1 kB)
Collecting mdurl=>0.1.1 (<from markdown-it-py==3.0->-myst-parser==2.0.0->-r requirements.txt (line 12))
  Downloading mdurl-0.1.2-py3-none-any.whl.metadata (1.6 kB)
Collecting charset_normalizer<4,>=2.0.0 (<from markdown-it-py==3.0->-myst-parser==2.0.0->-r requirements.txt (line 10))
  Downloading charset_normalizer-3.4.4-cp312-cp312-manylinux2014_x86_64_manylinux_2_17_x86_64_manylinux_2_28_x86_64.whl.metadata (37 kB)
Collecting idna<,>=2.5 (<from requests>=>2.25.0->Sphinx==7.1.2->-r requirements.txt (line 10))
  Downloading idna-3.11-py3-none-any.whl.metadata (8.4 kB)
Collecting urllib3<3,>=1.21.1 (<from requests>=>2.25.0->Sphinx==7.1.2->-r requirements.txt (line 10))
  Downloading urllib3-2.6.3-py3-none-any.whl.metadata (6.9 kB)
Collecting certifi=>2017.4.17 (<from requests>=>2.25.0->Sphinx==7.1.2->-r requirements.txt (line 10))
  Downloading certifi-2026.1.4-py3-none-any.whl.metadata (2.5 kB)
Collecting pathspec>=0.10.1 (<from scantree>=>0.1.0->-dirhash==0.2.1->-r requirements.txt (line 14))
  Downloading pathspec-1.0.4-py3-none-any.whl.metadata (13 kB)
Collecting six=>1.5 (<from python-dateutil><croniter<=3.0.3->-r requirements.txt (line 27))
  Downloading six-1.17.0-py2.py3-none-any.whl.metadata (1.7 kB)
Downloading aiohttp_jinja2-1.5.1-py3-none-any.whl (11 kB)
Downloading aiohttp_jinja2-3.13.3-cp312-cp312-manylinux2014_x86_64_manylinux_2_17_x86_64_manylinux_2_28_x86_64.whl (1.8 MB)
  1.8/1.8 MB 3.8 MB/s eta 0:00:00
Download aiohttp_session-2.12.0-py3-none-any.whl (12 kB)
Download aiohttp_security-0.4.0-py3-none-any.whl (6.9 kB)
Download jinja2-3.1.6-py3-none-any.whl (134 kB)
  134.9/134.9 KB 3.3 MB/s eta 0:00:00
Downloading PyYAML-6.0.1-cp312-cp312-manylinux2014_x86_64.whl (724 kB)
  725.0/725.0 KB 5.3 MB/s eta 0:00:00
Download cryptography-44.0.1-cp39-abi3-manylinux_2_34_x86_64.whl (4.2 MB)
  4.2/4.2 MB 5.1 MB/s eta 0:00:00
Download websockets-15.0-cp312-cp312-manylinux2014_x86_64_manylinux1_x86_64_manylinux_2_17_x86_64_manylinux2014_x86_64.whl (181 kB)
  181.8/181.8 KB 3.5 MB/s eta 0:00:00
Download sphinx-7.1.2-py3-none-any.whl (3.2 MB)
  3.4/3.2 MB 4.7 MB/s eta 0:00:00
  16:16
  ENG IN
  30-01-2026
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sai@SAI: ~/caldera/caldera
  Downloading propcase-0.4.1-cp312-cp312-manylinux2014_x86_64_manylinux_2_17_x86_64_manylinux_2_28_x86_64.whl.metadata (13 kB)
Collecting yarl<2.0,>=1.17.0 (<from aiohttp<=3.13.3->-r requirements.txt (line 22))
  Downloading yarl-1.22.0-cp312-cp312-manylinux2014_x86_64_manylinux_2_17_x86_64_manylinux_2_28_x86_64.whl.metadata (75 kB)
  75.1/75.1 KB 5.0 MB/s eta 0:00:00
Collecting apispec>=5.1.1 (<from aiohttp-apispec==3.0.0b2->-r requirements.txt (line 5))
  Downloading apispec-6.9.0-py3-none-any.whl.metadata (10 kB)
Collecting webargs=>8.0.1 (<from aiohttp-apispec==3.0.0b2->-r requirements.txt (line 5))
  Downloading webargs-8.7.1-py3-none-any.whl.metadata (6.7 kB)
Collecting MarkupSafe>=2.0 (<from jinja2==3.1.6->-r requirements.txt (line 6))
  Downloading markupsafe-3.0.3-cp312-cp312-manylinux2014_x86_64_manylinux_2_17_x86_64_manylinux_2_28_x86_64.whl.metadata (2.7 kB)
Collecting cffi>=1.12 (<from cryptography==44.0.1->-r requirements.txt (line 8))
  Downloading cffi-2.0.0-cp312-cp312-manylinux2014_x86_64_manylinux_2_17_x86_64.whl.metadata (2.6 kB)
Collecting sphinxcontrib-applehelp (<from Sphinx==7.1.2->-r requirements.txt (line 10))
  Downloading sphinxcontrib_applehelp-2.0.0-py3-none-any.whl.metadata (2.3 kB)
Collecting sphinxcontrib-devhelp (<from Sphinx==7.1.2->-r requirements.txt (line 10))
  Downloading sphinxcontrib_devhelp-2.0.0-py3-none-any.whl.metadata (2.3 kB)
Collecting sphinxcontrib-jsmath (<from Sphinx==7.1.2->-r requirements.txt (line 10))
  Downloading sphinxcontrib_jsmath-1.0.1-py2.py3-none-any.whl.metadata (1.4 kB)
Collecting sphinxcontrib_htmlhelp>=2.0.0 (<from Sphinx==7.1.2->-r requirements.txt (line 10))
  Downloading sphinxcontrib_htmlhelp-2.1.0-py3-none-any.whl.metadata (2.3 kB)
Collecting sphinxcontrib_serializinghtml>=1.1.5 (<from Sphinx==7.1.2->-r requirements.txt (line 10))
  Downloading sphinxcontrib_serializinghtml-2.0.0-py3-none-any.whl.metadata (2.4 kB)
Collecting sphinxcontrib_qthelp (<from Sphinx==7.1.2->-r requirements.txt (line 10))
  Downloading sphinxcontrib_qthelp-2.0.0-py3-none-any.whl.metadata (2.3 kB)
Collecting Pygments>=2.13 (<from Sphinx==7.1.2->-r requirements.txt (line 10))
  Downloading pygments-2.19.2-py3-none-any.whl.metadata (2.5 kB)
Collecting docutils<0.21,>=0.18.1 (<from Sphinx==7.1.2->-r requirements.txt (line 10))
  Downloading docutils-0.20.1-py3-none-any.whl.metadata (2.8 kB)
Collecting snowballstemmer=>2.0 (<from Sphinx==7.1.2->-r requirements.txt (line 10))
  Downloading snowballstemmer-3.0.1-py3-none-any.whl.metadata (7.9 kB)
Collecting babel=>2.9 (<from Sphinx==7.1.2->-r requirements.txt (line 10))
  Downloading babel-2.17.0-py3-none-any.whl.metadata (2.0 kB)
Collecting alabaster>0.8,>=0.7 (<from Sphinx==7.1.2->-r requirements.txt (line 10))
  Downloading alabaster-0.7.16-py3-none-any.whl.metadata (2.9 kB)
Collecting imagesize=>1.3 (<from Sphinx==7.1.2->-r requirements.txt (line 10))
  Downloading imagesize-1.4.1-py2.py3-none-any.whl.metadata (1.5 kB)
Collecting requests>=2.25.0 (<from Sphinx==7.1.2->-r requirements.txt (line 10))
  Downloading requests-2.32.5-py3-none-any.whl.metadata (4.9 kB)
Collecting docutils<0.21,>=0.18.1 (<from Sphinx==7.1.2->-r requirements.txt (line 10))
  Downloading docutils-0.18.1-py2.py3-none-any.whl.metadata (2.9 kB)
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sai@SAI: ~/caldera/caldera
  Downloading ldap3==2.9.1-py2.py3-none-any.whl.metadata (5.4 kB)
Collecting pyasn1==0.5.1 (from -r requirements.txt (line 17))
  Downloading pyasn1-0.5.1-py2.py3-none-any.whl.metadata (8.6 kB)
Collecting reportlab==4.0.4 (from -r requirements.txt (line 18))
  Downloading reportlab-4.0.4-py3-none-any.whl.metadata (1.3 kB)
Collecting rich==13.7.0 (from -r requirements.txt (line 19))
  Downloading rich-13.7.0-py3-none-any.whl.metadata (18 kB)
Collecting lxml==6.0.2 (from -r requirements.txt (line 20))
  Downloading lxml-6.0.2-cp312-cp312-manylinux_2_26_x86_64.manylinux_2_28_x86_64.whl.metadata (3.6 kB)
Collecting svglib==1.5.1 (from -r requirements.txt (line 21))
  Downloading svglib-1.5.1.tar.gz (913 kB)
    Installing build dependencies ... done
      Getting requirements to build wheel ... done
        Preparing metadata (pyproject.toml) ... done
Collecting Markdown==3.4.4 (from -r requirements.txt (line 22))
  Downloading Markdown-3.4.4-py3-none-any.whl.metadata (6.9 kB)
Collecting dnspython==2.6.1 (from -r requirements.txt (line 23))
  Downloading dnspython-2.6.1-py3-none-any.whl.metadata (5.8 kB)
Collecting asynccssh==2.20.0 (from -r requirements.txt (line 24))
  Downloading asynccssh-2.20.0-py3-none-any.whl.metadata (9.9 kB)
Collecting aioftp==0.29.0 (from -r requirements.txt (line 25))
  Downloading aioftp-0.29.0-py3-none-any.whl.metadata (5.3 kB)
Collecting packaging==23.2 (from -r requirements.txt (line 26))
  Downloading packaging-23.2-py3-none-any.whl.metadata (3.2 kB)
Collecting croniter==3.0.3 (from -r requirements.txt (line 27))
  Downloading croniter-3.0.4-py2.py3-none-any.whl.metadata (29 kB)
Collecting setuptools==78.1.1 (from -r requirements.txt (line 28))
  Downloading setuptools-78.1.1-py3-none-any.whl.metadata (6.5 kB)
Collecting aiohappyeyeballs>=2.5.0 (from aiohttp==3.13.3->r requirements.txt (line 2))
  Downloading aiohappyeyeballs-2.6.1-py3-none-any.whl.metadata (5.9 kB)
Collecting aiosignal==1.4.0 (from aiohttp==3.13.3->r requirements.txt (line 2))
  Downloading aiosignal-1.4.0-py3-none-any.whl.metadata (3.7 kB)
Collecting attrs==17.3.0 (from aiohttp==3.13.3->r requirements.txt (line 2))
  Downloading attrs-25.4.0-py3-none-any.whl.metadata (10 kB)
Collecting frozenlist>=1.1.1 (from aiohttp==3.13.3->r requirements.txt (line 2))
  Downloading frozenlist-1.8.0-cp312-cp312-manylinux1_x86_64.manylinux_2_28_x86_64.whl.metadata (28 kB)
Collecting multidict<7.0,>=4.5 (from aiohttp==3.13.3->r requirements.txt (line 2))
  Downloading multidict-6.7.1-cp312-cp312-manylinux2014_x86_64.manylinux_2_17_x86_64.manylinux_2_28_x86_64.whl.metadata (5.3 kB)
Collecting propcan>=0.2.0 (from aiohttp==3.13.3->r requirements.txt (line 2))

  913.9/913.9 kB 2.6 MB/s eta 0:00:00
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```
sai@SAI: ~/caldera/caldera
Unpacking python3-venv (3.12.3-0ubuntu2.1) ...
Setting up python3-setuptools-whl (68.1.2+ubuntu1.2) ...
Setting up python3-pip-whl (24.0+dfsg-ubuntu1.3) ...
Setting up python3-12-venv (5.12.3-ubuntu0.10) ...
Setting up python3-venv (3.12.3-0ubuntu2.1) ...
Collecting aiohttp-jinja2==1.5.1 (from -r requirements.txt (line 1))
  Downloading aiohttp_jinja2-1.5.1-py3-none-any.whl.metadata (8.1 kB)
Collecting aiohttp==3.13.3 (from -r requirements.txt (line 2))
  Downloading aiohttp-3.13.3-cp312-cp312-manylinux2014_x86_64.manylinux_2_17_x86_64.whl.metadata (8.1 kB)
Collecting aiohttp_session==2.12.0 (from -r requirements.txt (line 3))
  Downloading aiohttp_session-2.12.0-py3-none-any.whl.metadata (8.4 kB)
Collecting aiohttp-security==0.4.0 (from -r requirements.txt (line 4))
  Downloading aiohttp_security-0.4.0-py3-none-any.whl.metadata (2.9 kB)
Collecting aiohttp-apispec==3.0.0b2 (from -r requirements.txt (line 5))
  Downloading aiohttp-apispec-3.0.0b2.tar.gz (2.7 MB)
    Installing build dependencies ... done
      Getting requirements to build wheel ... done
        Preparing metadata (pyproject.toml) ... done
Collecting jinja2==3.1.6 (from -r requirements.txt (line 6))
  Downloading jinja2-3.1.6-py3-none-any.whl.metadata (2.9 kB)
Collecting pyyaml==6.0.1 (from -r requirements.txt (line 7))
  Downloading PyYAML-6.0.1-cp312-cp312-manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metadata (2.1 kB)
Collecting cryptography==44.0.1-cp39-abi3-manylinux_2_34_x86_64.whl.metadata (5.7 kB)
Collecting websockets==15.0 (from -r requirements.txt (line 9))
  Downloading websockets-15.0-cp312-cp312-manylinux_2_5_x86_64.manylinux1_x86_64.manylinux_2_17_x86_64.manylinux2014_x86_64.whl.metadata (6.8 kB)
Collecting Sphinx==7.1.2 (from -r requirements.txt (line 10))
  Downloading sphinx-7.1.2-py3-none-any.whl.metadata (5.8 kB)
Collecting sphinx_rtd_theme==1.3.0 (from -r requirements.txt (line 11))
  Downloading sphinx_rtd_theme-1.3.0-py3-none-any.whl.metadata (4.5 kB)
Collecting myst_parser==2.0.0 (from -r requirements.txt (line 12))
  Downloading myst_parser-2.0.0-py3-none-any.whl.metadata (5.4 kB)
Collecting marshmallow==3.26.2 (from -r requirements.txt (line 13))
  Downloading marshmallow-3.26.2-py3-none-any.whl.metadata (7.3 kB)
Collecting dirhash==0.2.1 (from -r requirements.txt (line 14))
  Downloading dirhash-0.2.1-py3-none-any.whl.metadata (5.0 kB)
Collecting marshmallow_enum==1.5.1 (from -r requirements.txt (line 15))
  Downloading marshmallow_enum-1.5.1-py3-none-any.whl.metadata (2.5 kB)
Collecting ldap3==2.9.1 (from -r requirements.txt (line 16))

  2.7/2.7 MB 3.1 MB/s eta 0:00:00
```

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```
sai@SAI: ~/caldera/caldera
Ign:1 https://archives.strangebee.com/repo stable InRelease
Err:1 https://archives.strangebee.com/repo stable InRelease
  Could not resolve 'archives.strangebee.com'
Reading package lists... Done
W: https://packages.wazuh.com/4.x/apt/dists/stable/InRelease: Key is stored in legacy trusted.gpg keyring (/etc/apt/trusted.gpg), see the DEPRECATION section in apt-key(8)
for details.
W: GPG error: https://packagecloud.io/crowdsec/crowdsec/ubuntu noble InRelease: The following signatures couldn't be verified because the public key is not available: NO_PUBKEY 9EB2753BF09DFB77
E: The repository 'https://packagecloud.io/crowdsec/crowdsec/ubuntu noble InRelease' is not signed.
N: Updating from such a repository can't be done securely, and is therefore disabled by default.
N: See apt-secure(8) manpage for repository creation and user configuration details.
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
python3-pip is already the newest version (24.0+dfsg-1ubuntu1.3).
0 upgraded, 0 newly installed, 0 to remove and 21 not upgraded.
sai@SAI:~/caldera$ apt search python3-package-name>
-bash: syntax error near unexpected token `newline'
sai@SAI:~/caldera$ sudo apt install python3-vENV
python3 -m venv caldera-env
source caldera-env/bin/activate
pip install -r requirements.txt
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  python3-pip-whl python3-setuptools-whl python3.12-vENV
The following NEW packages will be installed:
  python3-pip-whl python3-setuptools-whl python3-vENV python3.12-vENV
0 upgraded, 4 newly installed, 0 to remove and 21 not upgraded.
Need to get 2430 kB of archives.
After this operation, 2783 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 python3-pip-whl all 24.0+dfsg-1ubuntu1.3 [1707 kB]
Get:2 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 python3-setuptools-whl all 68.1.2-2ubuntu1.2 [716 kB]
Get:3 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 python3.12-vENV amd64 python3.12-vENV 3.12.3-1ubuntu0.10 [5678 B]
Get:4 http://archive.ubuntu.com/ubuntu noble-updates/universe amd64 python3-vENV amd64 python3-vENV 3.12.3-0ubuntu2.1 [1032 B]
Fetched 2430 kB in 5s (526 kB/s)
Selecting previously unselected package python3-pip-whl.
(Reading database ... 260046 files and directories currently installed.)
```

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```
sai@SAI: ~/caldera/caldera
sai@SAI:~$ cd caldera
pip3 install -r requirements.txt
error: externally-managed-environment

This environment is externally managed
↳ To install Python packages system-wide, try apt install
  python3-xyz, where xyz is the package you are trying to
  install.

If you wish to install a non-Debian-packaged Python package,
create a virtual environment using python3 -m venv path/to/venv.
Then use path/to/venv/bin/python and path/to/venv/bin/pip. Make
sure you have pipx installed.

If you wish to install a non-Debian packaged Python application,
it may be easiest to use pipx install xyz, which will manage a
virtual environment for you. Make sure you have pipx installed.

See /usr/share/doc/python3.12/README.venv for more information.

note: If you believe this is a mistake, please contact your Python installation or OS distribution provider. You can override this, at the risk of breaking your Python installation or OS, by passing --break-system-packages.
hint: See PEP 668 for the detailed specification.
sai@SAI:~/caldera$ sudo apt update
sudo apt install python3-pip
Ign:1 https://archives.strangebee.com/repo stable InRelease
Hit:2 https://download.docker.com/linux/ubuntu noble InRelease
Hit:3 https://artifacts.elastic.co/packages/8.x/apt stable InRelease
Hit:4 https://packages.wazuh.com/4.x/apt stable InRelease
Hit:5 https://packages.treasuredata.com/4/ubuntu/jammy jammy InRelease
Hit:6 http://archive.ubuntu.com/ubuntu noble InRelease
Ign:7 https://archives.strangebee.com/repo stable InRelease
Hit:8 http://security.ubuntu.com/ubuntu noble-security InRelease
Hit:9 http://archive.ubuntu.com/ubuntu noble-updates InRelease
Get:10 https://packagecloud.io/crowdsec/crowdsec/ubuntu noble InRelease [29.6 kB]
Hit:11 http://archive.ubuntu.com/ubuntu noble-backports InRelease
Err:12 https://packagecloud.io/crowdsec/crowdsec/ubuntu noble InRelease
  The following signatures couldn't be verified because the public key is not available: NO_PUBKEY 9EB2753BF09DFB77
Hit:13 https://packagecloud.io/crowdsec/crowdsec/ubuntu any InRelease
Hit:14 https://download.opensuse.org/repositories/security:/zeek/xUbuntu_22.04 InRelease
```

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```
sai@SAI: ~/caldera/caldera
$#[sai@SAI]:-$ sudo apt update
sudo apt install -y git python3 python3-pip
[sudo] password for sai:
Ign:1 https://archives.strangebee.com/repo stable InRelease
Hit:2 https://packages.treasuredata.com/4/ubuntu/jammy jammy InRelease
Hit:3 https://download.docker.com/linux/ubuntu noble InRelease
Hit:4 https://artifacts.elastic.co/packages/8.x/apt stable InRelease
Hit:5 https://packages.wazuh.com/4.x/apt stable InRelease
Hit:6 http://archive.ubuntu.com/ubuntu noble InRelease
Hit:7 http://security.ubuntu.com/ubuntu noble-security InRelease
Hit:8 http://archive.ubuntu.com/ubuntu noble-updates InRelease
Ign:9 https://archives.strangebee.com/repo stable InRelease
Hit:10 http://archive.ubuntu.com/ubuntu noble-backports InRelease
Get:11 https://packagecloud.io/crowdsec/crowdsec/ubuntu noble InRelease [29.6 kB]
Err:12 https://packagecloud.io/crowdsec/crowdsec/ubuntu noble InRelease
   The following signatures couldn't be verified because the public key is not available: NO_PUBKEY 9EB2753BF09DFB77
Ign:13 https://archives.strangebee.com/repo stable InRelease
Hit:14 https://packagecloud.io/crowdsec/crowdsec/any any InRelease
Hit:15 https://download.opensuse.org/repositories/security:/zeek/xUbuntu_22.04 InRelease
Err:16 https://archives.strangebee.com/repo stable InRelease
   Could not resolve 'archives.strangebee.com'.
Reading package lists... Done
W: https://packages.wazuh.com/4.x/apt/dists/stable/InRelease: Key is stored in legacy trusted.gpg keyring (/etc/apt/trusted.gpg), see the DEPRECATION section in apt-key(8)
for details.
W: GPG error: https://packagecloud.io/crowdsec/crowdsec/ubuntu noble InRelease: The following signatures couldn't be verified because the public key is not available: NO_PU
BKEY 9EB2753BF09DFB77
E: The repository 'https://packagecloud.io/crowdsec/crowdsec/ubuntu noble InRelease' is not signed.
N: Updating from such a repository can't be done securely, and is therefore disabled by default.
N: See apt-secure(8) manpage for repository creation and user configuration details.
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
git is already the newest version (1:2.43.0-1ubuntu7.3).
python3 is already the newest version (3.12.3-0ubuntu2.1).
python3-pip is already the newest version (24.0+dfsg-1ubuntu1.3).
0 upgraded, 0 newly installed, 0 to remove and 21 not upgraded.
[sai@SAI]:-$ cd ~
git clone https://github.com/mitre/caldera.git
Cloning into 'caldera'...
remote: Enumerating objects: 25695, done.
```

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