

module 'lib' has no attribute 'openssl_add_all_algorithms'

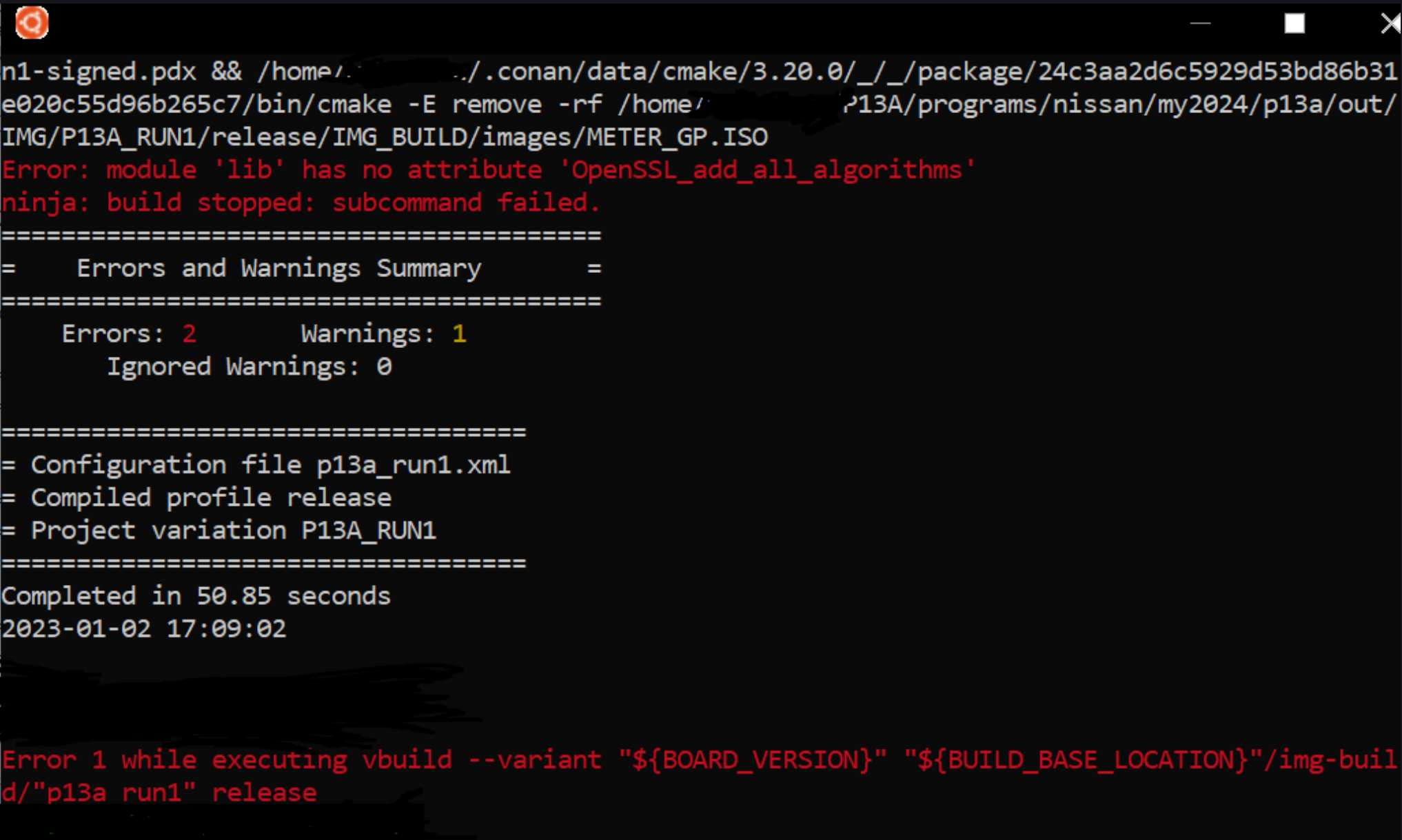
Last edited by [VREDDY10](#) 2 years ago

Issue Description :-

- pyopenssl required cryptography which exposes cryptographic recipes and primitives to python developers
- pyopenssl (v23.0.0) :
 - Cryptography maximum version has been increased to 39.0.x
- cryptography (v39.0.0) :-
 - Backward incompatible for cryptography v38.0.x
- cryptography `39.0.0` is incompatible with pyopenssl `22.0.0`

Error Message/screenshot:-

Error: module 'lib' has no attribute 'OpenSSL_add_all_algorithms'



```
n1-signed.pdx && /home/.../.conan/data/cmake/3.20.0/_/_/package/24c3aa2d6c5929d53bd86b31e020c55d96b265c7/bin/cmake -E remove -rf /home/.../P13A/programs/nissan/my2024/p13a/out/IMG/P13A_RUN1/release/IMG_BUILD/images/METER_GP.ISO
Error: module 'lib' has no attribute 'OpenSSL_add_all_algorithms'
ninja: build stopped: subcommand failed.
=====
=      Errors and Warnings Summary      =
=====
Errors: 2      Warnings: 1
Ignored Warnings: 0

=====
= Configuration file p13a_run1.xml
= Compiled profile release
= Project variation P13A_RUN1
=====
Completed in 50.85 seconds
2023-01-02 17:09:02

Error 1 while executing vbuild --variant "${BOARD_VERSION}" "${BUILD_BASE_LOCATION}"/img-build/"p13a run1" release
```

If your INI file has below content

```
[pip]
pyopenssl==22.0.0
;rest of the packages
```

What is PyOpenSSL?

- pyOpenSSL is a rather thin wrapper around (a subset of) the OpenSSL library. With thin wrapper we mean that a lot of the object methods do nothing more than calling a corresponding function in the OpenSSL library.
- pyOpenSSL is collaboratively developed by the Python Cryptography Authority (PyCA) that also maintains the low-level bindings called cryptography.

What is cryptography?

- `cryptography` is a package which provides cryptographic recipes and primitives to Python developers. Our goal is for it to be your "cryptographic standard library". It supports Python 3.6+ and PyPy3 7.2+.

Solution: -

- Upgrading pyopenssl or downgrading cryptography
- PyOpenSSL and the cryptography versions listed below have been tested in combination.

| s.no | pyopenssl | cryptography | COMPATIBLE/IN-COMPATIBLE |
|------|-----------|--------------|--------------------------|
| 1. | 22.0.0 | 39.0.0 | ✗ |
| 2. | 22.0.0 | 38.0.4 | ✓ |
| 3. | 23.0.0 | 39.0.0 | ✓ |
| 4. | 23.0.0 | 38.0.4 | ✓ |

! Note: As per our initial assumption cryptography 39.0.0 breaks with pyopenssl 22.0.0 , The new workspace created on or after Jan 2'nd 2023 and the profile(INI) file without any hardcoded version of cryptography and pyopenssl==22.0.0 will confront.


Sample solution snippets:-

Solution 1

```
[pip]
pyopenssl==23.0.0
cryptography==39.0.0
;rest of the packages
```

Solution 2

```
[pip]
pyopenssl==22.0.0
cryptography==38.0.4
;rest of the packages
```

- You can use the in-app command devNext --help or devNext <command> --help for more options/help.
- **Support:** If you've any Queries w.r.t above mentioned steps, please reach out to  devNext.support@visteon.com