

How to "pip install" in Milesight Routers

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Modified on: Sun, 8 Oct, 2023 at 8:04 PM

Description

Milesight cellular routers all come with built-in component for secondary development in Python. Python SDK is required for Milesight Router to carry out the commands in this article. To enable related functions, please refer to this article ([How to Install Python SDK and Read Log](https://support.milesight-iot.com/en/support/solutions/articles/73000514211) (<https://support.milesight-iot.com/en/support/solutions/articles/73000514211>)) and import the SDK first.

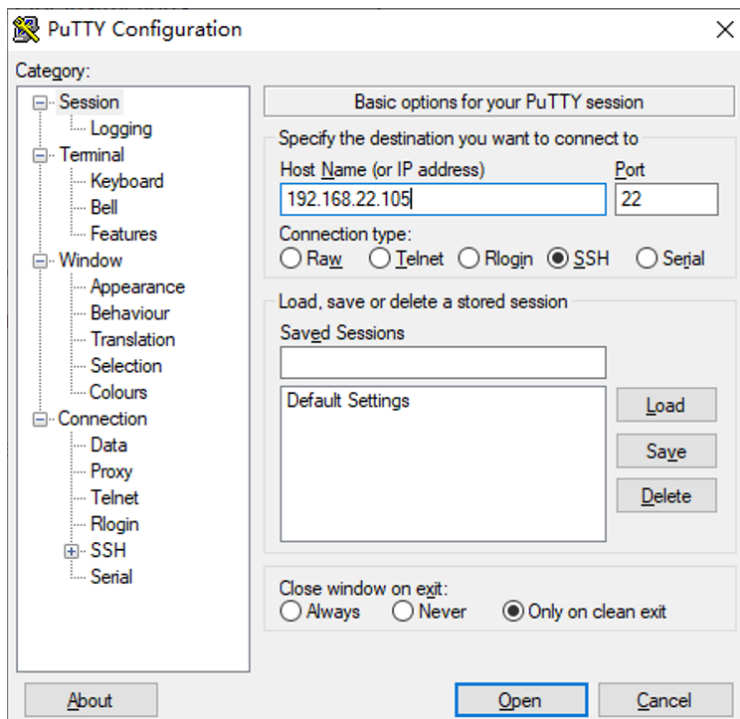
Note: If the code needs to compile using other compiler like C or C++, it not able to install it like this in the router.

Requirement

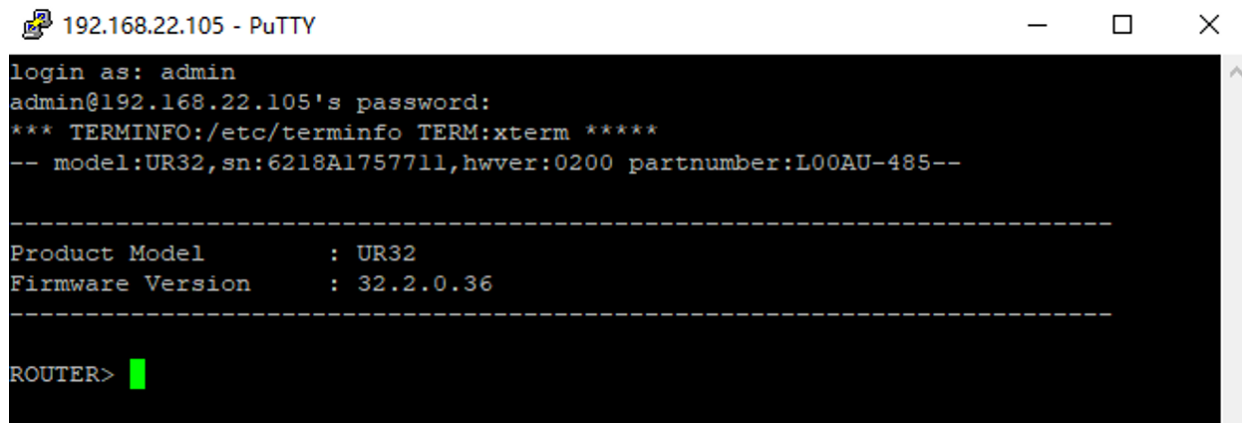
- **PuTTY** (<http://resource.milesight-iot.com/software/putty.exe>) or any Shell tool to log in router system via SSH
- Milesight Router/CPE/Gateway

Configuration

1. Open Putty or any Shell tool to login in as **admin**, password is **password** by default. If you have changed the password, use your custom password here.



Help



```

192.168.22.105 - PuTTY
login as: admin
admin@192.168.22.105's password:
*** TERMINFO:/etc/terminfo TERM:xterm *****
-- model:UR32,sn:6218A1757711,hwver:0200 partnumber:L00AU-485--

-----
Product Model      : UR32
Firmware Version   : 32.2.0.36
-----

ROUTER>

```

2. Install Python SDK for your development, take install AWS Python SDK for example:
(en=enable; con t=configure terminal)

```

ROUTER> en
ROUTER# conf t
ROUTER(config)# python
ROUTER(Python)# pip install AWSIoTPythonSDK

```

HTML

```

ROUTER> en
ROUTER# conf t
ROUTER(config)# python
ROUTER(Python)# pip install AWSIoTPythonSDK
Collecting AWSIoTPythonSDK
  Downloading https://files.pythonhosted.org/packages/c7/df/bld263104123ec6aff3564bf23cebel84713a8fd090f0541e9a683b7ed13/AWSIoTPythonSDK-1.4.9.tar.gz (80kB)
    100% |#####| 81kB 101kB/s
Installing collected packages: AWSIoTPythonSDK
  Running setup.py install for AWSIoTPythonSDK ... done
Successfully installed AWSIoTPythonSDK-1.4.9

```

If other python libraries are needed, you can go to the [pip official website \(https://pypi.org/project/pip/\)](https://pypi.org/project/pip/) to view the commands.

3. Verify the installation with command **pip list** or **show-pylibs**. This will take some times to show the list please do not operate the device during the time. Other basic python related commands in Linux system are supported as well.

```

ROUTER(Python)# pip list
Package              Version
-----
AWSIoTPythonSDK      1.4.9
certifi               2018.4.16
meld3                 1.0.2
nanomsg               1.0
paho-mqtt             1.3.1
pip                   10.0.1
pyserial              3.4
python-libevent       0.9.2
setuptools            39.2.0
strict-rfc3339        0.7
supervisor            3.3.4

```

4. If you want to uninstall packets, you can use command **pip uninstall**

```
ROUTER(Python)# pip uninstall AWSIoTPythonSDK
Uninstalling AWSIoTPythonSDK-1.4.9:
  Would remove:
    /mnt/mmcbk0pl/pyuser/app/lib/python2.7/site-packages/AWSIoTPythonSDK-1.4.9-
py2.7.egg-info
    /mnt/mmcbk0pl/pyuser/app/lib/python2.7/site-packages/AWSIoTPythonSDK/*
Proceed (y/n)? y
  Successfully uninstalled AWSIoTPythonSDK-1.4.9
```

Y Youny is the author of this solution article.