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Application Guide

Wedora Cloud-IPFix Component-Installation

Contents

Revision History

Updates between document versions are cumulative. Therefore, the latest document version contains all updates made to previous versions.

Doc Version	Product	Release Data	Details
V1.0	M2M Cloud Platform	2017.09.30	First Release

1 Overview

Wedora Cloud is the M2M Cloud Management Platform for Hongdian M2M products including routers, DTU,and etc.
The IPFIX (IP Flow Information Export) is a optional function for Wedora platform, that is, the standard Wedora version does not contain the IPFix component.
This article shows you how to install the IPFIX component on your Centos server to enable the IPFix for Wedora platform, after you having installed the Wedora cloud in your Centos server.

2 IPFIX Installation

The installation is in the Shell of CentOS, please follow the commands one by one and press enter to run one by one.

2.1 Shell Commands

1. Install system components

```
yum -y install zlib zlib-devel openssl openssl--devel pcre pcre-devel
yum install openssl-devel -y
yum -y install gcc
```

2. Install Python3

```
cd /usr/local
wget https://www.python.org/ftp/python/3.6.2/Python-3.6.2.tgz
mv Python-3.6.2.tgz python3.tar.gz
tar zxvf python3.tar.gz
mv Python-3.6.2 python3
cd python3
./configure --enable-shared --prefix=/usr/local/python3
nohup make&&make install &
```

After installation of Python3, makeup some setting as below:

```
chmod +x /usr/local/python3/bin/python3
ln -s /usr/local/python3/bin/python3 /usr/bin/python3
sed -i '$a /usr/local/python3/lib' /etc/ld.so.conf
ldconfig
```

Test if Python3 is installed successfully, if it show same as screen, then it is success.

```
python3
```

```
[root@localhost hongdian]# python3
Python 3.4.4 (default, Mar 21 2016, 15:21:24)
[GCC 4.4.7 20120313 (Red Hat 4.4.7-16)] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>>
```

3. Python3 components install

Upload file site-packages.tar to the server to this directory:
/usr/local/python3/lib/python3.6/site-packages
Run commands to unzip file:
cd /usr/local/python3/lib/python3.6/site-packages
tar -xvf site-packages.tar

4. SQL update

Upload file: ipfix.sql to directory: /usr/local/wedora/

Run commands:

```
mysql -uroot -psa
use wedora;
source /usr/local/wedora/ipfix.sql;
```

5. File replacement

Upload file message_en_US.properties, to overwrite file:
/usr/local/wedora/tomcat7/webapps/wedora/data/message_en_US.properties

Upload file ipfixCapture.js, to replace file:
/usr/local/wedora/tomcat7/webapps/wedora/module/devicemonitorlist/ipfixCapture.js

After file replace, restart Tomcat

6. IPFix install

Upload IPfix installation file: ipfixparser.tar to the server: /usr/local/wedora/ipfixparser/, unzip it:

```
cd /usr/local/wedora/ipfixparser/
tar xvf ipfixparser.tar
```

Run commands:

```
cd /usr/local/wedora/ipfixparser/
chmod +x *.sh
nohup ./start.sh &
```

1. Check if IPFix service is successfully started:

```
ps -ef| grep ipfix
```

```
[root@localhost hongdian]# ps -ef|grep ipfix
root      9139 32385  0 16:24 pts/4    00:00:00 grep ipfix
root     11570 11468  0 Oct13 pts/5    00:06:07 /usr/bin/python3 ./ipfixserver.py
```

```
netstat -na | grep 10086
```

2. Open UDP 10086 on server firewall

```
/sbin/iptables -I INPUT -p udp --dport 10086 -j ACCEPT
service iptables save
service iptables restart
chkconfig iptables on
```

-END-

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