

Milesight DeviceHub IoT Device Installation Guide

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Preface

This guide teaches you how to install Milesight on-premises DeviceHub platform.

Readers

This guide is intended for the following users:

- Distributors
- Network Planners
- On-site technical support and maintenance personnel
- Network administrators responsible for network configuration and maintenance

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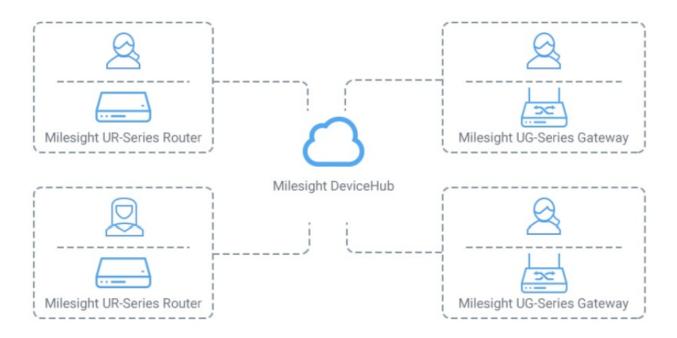
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Revision History

Date	Doc Version	Description
Aug. 29, 2018	V 1.0	Initial version
Mar. 18, 2021	V 2.0	Brand Replace and add features

Introduction

Milesight DeviceHub provides a high-efficency, low maintenance solution to easily deploy Milesight IoT devices across multiple locations, reducing complexity and increasing productivity. Milesight offers cloud and on-premises version according to customer requirements. This guide will describe how to install on-premises DeviceHub. For cloud version please contact Milesight IoT sales or click here to apply for DeviceHub Cloud platform account.



System Requirements

Hardware

It's suggested to use the server which suit following requirements:

For 500 devices

- CPU: 2 Cores, 2.0 GHz

– RAM: 16 GB– Disk: 512 GB

- Bandwidth: ≥100MBps

For 1000 devices

- CPU: 8 Cores, 3.2 GHz

– RAM: 32 GB– Disk: 1 TB

- Bandwidth: ≥100MBps

Software

• Operating System: Ubuntu 16.04

· Browser: Chrome, Firefox

Installation

Requirements

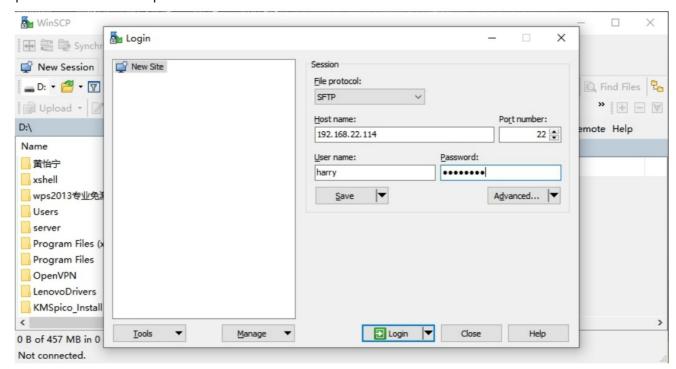
- Ubuntu Server
- DeviceHub Software Package
- WinSCP
- Putty (or other SSH tool)

Package Upload

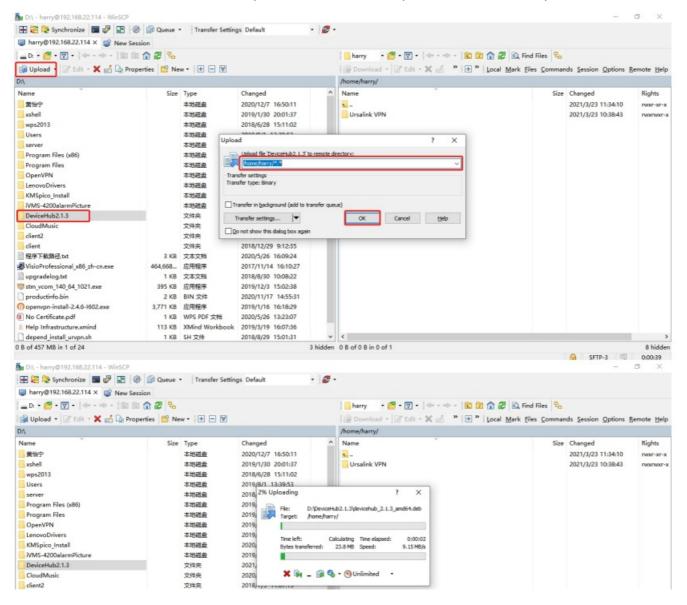
Following steps are based on WinSCP tool. You can also use other tools to upload packages.

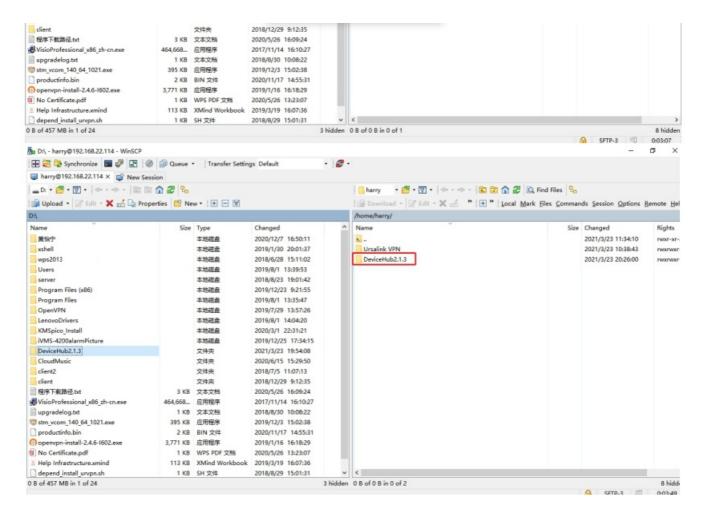
1. Download the DeviceHub package from Milesight IoT website then extract and check files:

2. Open WinSCP and set up a session between WinSCP and server.



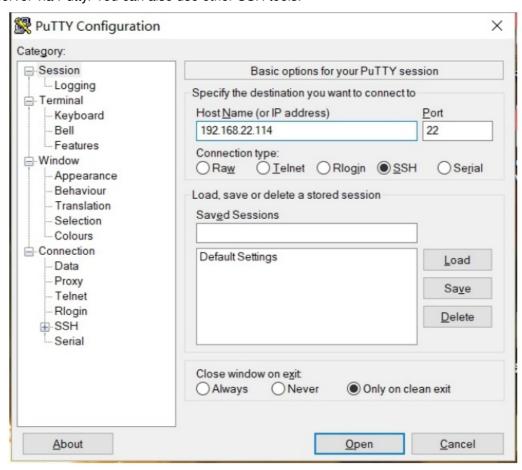
3. Select the DeviceHub folder and click "Upload", select the server path and click "OK" to upload.





DeviceHub Installation

1. Log in the server via Putty. You can also use other SSH tools.



2. Run following commands under DeviceHub directory. chmod+xdepend install devicehub.sh.

```
Proot@ubuntu: /home/harry/DeviceHub2.1.3
                                                                               X
 * Documentation: https://help.ubuntu.com
  Management:
                    https://landscape.canonical.com
 * Support:
                    https://ubuntu.com/advantage
195 packages can be updated.
142 updates are security updates.
New release '18.04.5 LTS' available.
Run 'do-release-upgrade' to upgrade to it.
Last login: Mon Mar 22 04:48:03 2021 from 192.168.23.176
harry@ubuntu:~$ sudo -i
[sudo] password for harry:
root@ubuntu:~# cd /home/harry/DeviceHub2.1.3/
root@ubuntu:/home/harry/DeviceHub2.1.3# chmod +x depend_install_devicehub.sh root@ubuntu:/home/harry/DeviceHub2.1.3# ./depend install devicehub.sh
Hit:1 http://us.archive.ubuntu.com/ubuntu xenial InRelease
Get:2 http://security.ubuntu.com/ubuntu xenial-security InRelease [109 kB]
Get:3 http://us.archive.ubuntu.com/ubuntu xenial-updates InRelease [109 kB]
Get:4 http://us.archive.ubuntu.com/ubuntu xenial-backports InRelease [107 kB]
Fetched 325 kB in 4s (78.6 kB/s)
Reading package lists... 96%
```

3. Install DeviceHub software. Take the 2.1.3 version as example, please type following command: dpkg -i devicehub 2.1.3 amd64.deb

The network interface of this server will show. Select and type the main interface name, then click Enter to start the installation.

```
root@ubuntu: /home/harry/DeviceHub2.1.3
                                                                                                 \Box
                                                                                                       X
Setting up libtinfo-dev:amd64 (6.0+20160213-1ubuntu1) ...
Setting up libncurses5-dev:amd64 (6.0+20160213-1ubuntu1) ...
Processing triggers for libc-bin (2.23-0ubuntu11)
root@ubuntu:/home/harry/DeviceHub2.1.3# dpkg -i devicehub 2.1.3 amd64.deb
Selecting previously unselected package device-hub.
(Reading database ... 67938 files and directories currently installed.)
Preparing to unpack devicehub_2.1.3_amd64.deb ...
install devicehub (best in ubuntu)
ens18
          Link encap:Ethernet HWaddr 4e:06:2a:55:fd:ea
          inet addr:192.168.22.114 Bcast:192.168.22.255 Mask:255.255.255.0
          inet6 addr: fe80::4c06:2aff:fe55:fdea/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
          RX packets:1954847 errors:0 dropped:12917 overruns:0 frame:0
          TX packets:255602 errors:0 dropped:0 overruns:0 carrier:0
          collisions:1277819 txqueuelen:1000
          RX bytes:2531720373 (2.5 GB) TX bytes:22931361 (22.9 MB)
          Link encap:Local Loopback
          inet addr:127.0.0.1 Mask:255.0.0.0
          inet6 addr: ::1/128 Scope:Host
          UP LOOPBACK RUNNING MTU:65536 Metric:1
          RX packets:160 errors:0 dropped:0 overruns:0 frame:0
          TX packets:160 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1
          RX bytes:11840 (11.8 KB) TX bytes:11840 (11.8 KB)
Please input primary interface name ens18
```

installation complete.

```
Proot@ubuntu: /home/harry/DeviceHub2.1.3
                                                                                                        X
make[1]: Leaving directory '/clouddata/cloudversion/src
install the database..
upgrade execute!
2.0.0
2.1.0
tbl_acs_version is not exist
current database version is 1.0.0
version/2.0.0 -> version/2.0.0.tmp
ERROR 1396 (HY000) at line 3: Operation DROP USER failed for 'urs_myacs'@'localhost'
excute upgrade of 2.0.0 finish
version/2.1.0 -> version/2.1.0.tmp
excute upgrade of 2.1.0 finish
Starting stund!STUN server version 0.97
If your machine does not have exactly two ethernet interfaces, you must specify the server and alt server
Warning - no alternate ip address STUN will not work
Shutting down MySQL
Starting MySQL
Stopping redis-server!/usr/local/bin/redis-server: no process found
Starting redis-server!
Gracefully shutting down php-fpm . done
Starting php-fpm done
Starting nginx!
* SAMS has already been stopped or has problems
Using CATALINA BASE: /clouddata/server/tomcat7
Using CATALINA_HOME: /clouddata/server/tomcat7
Using CATALINA_TMPDIR: /clouddata/server/tomcat7/temp
Using JRE HOME:
                       /clouddata/server/java/jre
Using CLASSPATH:
                       /clouddata/server/tomcat7/bin/bootstrap.jar:/clouddata/server/tomcat7/bin/tomcat-juli
Pomcat started.
------ Installation of DeviceHub [2.1.3] is complete! ------
Processing triggers for libc-bin (2.23-Uubuntull) ...
root@ubuntu:/home/harry/DeviceHub2.1.3#
```

Registration

After installation, open the browser and type the IP address to open the registration page. Fill in the following information and click "Install" to complete the registration. **Administrator Account(Required)**

Admin Email: the email address working as root account of the DeviceHub

Password: define the password of the root account

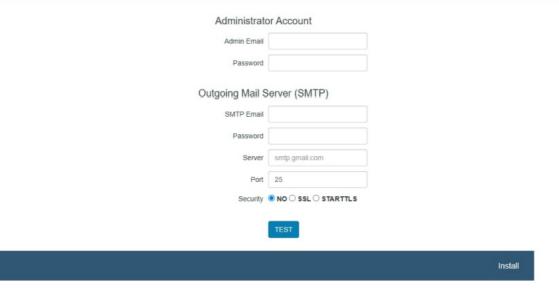
Outgoing Mail Server(Option)

SMTP Email: Email address used for sending alarm emails or sub-account activation emails

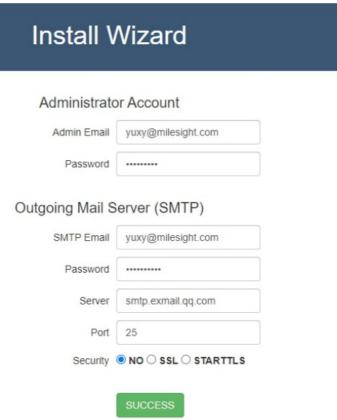
Password: Password of the email address Server: SMTP server address for email service Port: SMTP server port for email service Security: encryption mode for email service



Install Wizard



After completing all information, click "TEST" to check if your outgoing mail server is valid. If yes, a SUCCESS prompt will show and DeviceHub will save the email settings.



Otherwise there is error message "Authentication failed".

Install Wizard



Nbote:

- 1. Outgoing mail server information is option and you can click "Install" to skip the configurations.
- 2. You can also log in the DeviceHub via administrator account and go to "Settings > Email" to configure or change the outgoing mail server settings.
- 3. If the outgoing mail server is not verified by "TEST" button, it will not be saved.

After registration, you can log in the DeviceHub via administrator account.



Services and Ports

In order to ensure the security and unblocked communication, here are ports for services:

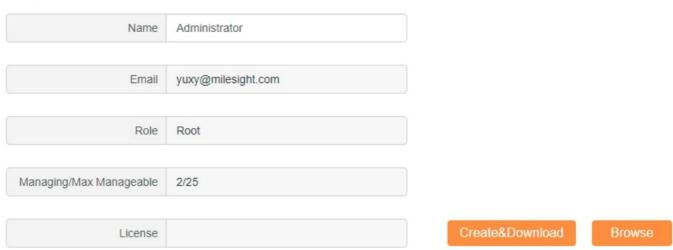
Port	Protocol	Description
22	TCP	SSH Service
80	TCP	NGINX Agent(Non-encrypted)
443	TCP	NGINX Agent(Encrypted)
3478	UDP	STUND Service
3479	UDP	STUND Service
6379	TCP	Message Broker
8080	TCP	TR069 Service(Non-encrypted)
8443	TCP	TR069 Service(Encrypted)
10000-10100	TCP	Remote Access Service
20000-20100	ТСР	Remote Access Service

Expand Manage Devices

The number of available managing devices can be checked in "Settings > General" tab. Maximum number of managing devices is 25 by default for on-premises version. Please refer to following steps to expand manage devices.

- 1. Log in DeviceHub with root account and go to "Settings > General" tab, then click "Create&Download" to download license info file.
- 2. Contact Milesight sales or technical support and send the license info file.
- 3. Get expand license from Milesight and click "Browse" to import the license.
- 4. Click "save" to save the settings and the max manageable devices will change.

My Information





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Documents / Resources



<u>Milesight DeviceHub IoT Device</u> [pdf] Installation Guide DeviceHub IoT Device, DeviceHub, IoT Device

References

• Milesight IoT - LoRaWAN, 5G & AloT

Manuals+, home privacy