



# Milesight DeviceHub 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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For assistance, please contact Milesight technical support: Email: iot.support@milesight.com Tel: 86-592-5085280 Fax: 86-592-5023065 Address: 4/F, No.63-2 Wanghai Road, 2<sup>nd</sup> Software Park, Xiamen, China

### **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



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# 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:

depend_install_devicehub.sh	1 KB
devicehub_2.1.3_amd64.deb	505,047 KB

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

MinSCP	X
🕀 🚟 🖶 Synchr	– 🗆 X
🛒 New Session 📑 New Site	Session
🔜 D: 🔻 🚝 👻 🔽	File protocol:
Upload -	SFTP ~ * + - V
	Host name: Port number:
	192.168.22.114 22 💌 PMOTE Help
Name	Licer parent
黄怡宁	<u>User hame</u>
xshell	narry
— wps2013专业免测	Save I▼ Advanced I▼
Users	
server	
Program Files (x	
Program Files	
OpenVPN	
LenovoDrivers	
KMSpico_Install	
<	
0 B of 457 MB in 0 Tools ▼ Manage	Close Help
Not connected.	

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.

🕵 PuTTY Configuration		×
Category: Session Logging Terminal Features Window Appearance Behaviour Translation Selction Connection Pata Proxy Telnet Rlogin SSH Serial	Basic options for your PuTTY sessi   Specify the destination you want to connect to   Host Name (or IP address)   192.168.22.114   Connection type:   Raw Ielnet   Raw Ielnet   Raw Ielnet   Raw Ielnet   Raw Ielnet   Raw Ielnet   Basic options Image: State of the session   Savgd Sessions Image: State of the session   Default Settings Image: State of the set of the	on <u>2</u> ort 22 Serial <u>Load</u> Save <u>D</u> elete
About	<u>O</u> pen	<u>C</u> ancel

2. Run following commands under DeviceHub directory. *chmod* +*x* depend\_install\_devicehub.sh ./depend\_install\_devicehub.sh



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.



It will take about 30 minutes to complete the installation and there will show following message when the installation complete.



### 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

📀 Mile	sight Install V	Wizard
	Administrato	tor Account
	Admin Email	
	Password	í Eile
	Outgoing Mail S	Server (SMTP)
	SMTP Email	
	Password	í
	Server	smtp.gmail.com
	Port	1 25
	Security	
	I	TEST
		Install

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.

Install Wizard		
Administrato	pr Account	
Admin Email	yuxy@milesight.com	
Password		
Outgoing Mail S	yuxy@milesight.com	
Password		
Server	smtp.exmail.qq.com	
Port	25	
Security		
	SUCCESS	



Otherwise there is error message "Authentication failed".

Install Wizard		
Administrato	or Account	
Admin Email		
Password		
Outgoing Mail S Authenticati	erver (SMTP) on failed	
SMTP Email	youny@milesight.com	
Password		
Server	smtp.exmail.qq.com	
Port	25	
Security	● NO ○ SSL ○ STARTTLS	
	TEST	

#### Note:

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.

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	Milesight DeviceHub	
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	Password	The state of the s
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# Services and Ports

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

Port	Protocol	Description
22	TCP	SSH Service

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80	TCP	NGINX Agent(Non-encrypted)
443	ТСР	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	TCP	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	Inform	nation
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Name	Administrator		
Email	yuxy@milesight.com		
Role	Root		
Managing/Max Manageable	2/25		
License		Create&Download	Browse

-END-

