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Application Guide Wedora Cloud-HTTPS Visit



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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	2018.01.04	First Release

1 Overview

Wedora Cloud is the M2M Cloud Management Platform for Hongdian M2M products including routers, DTU, and etc.

This article introduces how to enable the https visit.

You should get the CA by yourself. Wherein, this document is make the example on local testing with a local CA.

2 Description

2.1 Configuration steps

2.1.1 Preparation

1. Login the platform, check the url as below, which is HTTP type in default. http://192.168.137.84:51682/wedora

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	l₹		
	M2	M Cloud	
100	Username		
	Password		
	Keep session		da.
		Login	

2. Apply for the SSL certificate.

As the demo, we take the local CA.(You should get a commercial SSL for actual using). After your PC installed the Java APP. You should get "keytool.exe" in the folder.



open CMD

cd C:\Program Files (x86)\Java\jre1.8.0_111\bin keytool -genkeypair -alias "tomcat" -keyalg "RSA" -keystore "D:\tomcat.keystore"



192.168.137.84

This is important, may sure it is correct to your domain or IP. Next, others can be **anything**.

When it prompt "Is ... correct?", input y to continue



After generated, it is saved in D:\ as below.

 Compute 	r) \$\$	7件(D:) ▶	✓ 4y Search 4
w <u>T</u> ools	<u>H</u> elp		
Include in	library	✓ Share with ▼ Burn New folder	
		TJ_10_12.log Type: Text Document	Date modified: 2017/10/12 19:40 Size: 1.83 KB
laces ds :盘 :		Cli_test.conf Type: CONF File	Date modified: 2017/2/17 17:03 Size: 1.09 KB
		tomcat.keystore Type: KEYSTORE File	Date modified: 2018/1/4 14:01 Size: 4.39 KB

2.1.2 Operation

1. Open the platform server shell(CentOS Shell) For example, ssh to 192.168.137.84:22 to login. Input the commands



Open the xftp (or other sftp client)

Application Guide - Wedora Cloud-Notification	n-Email			
myPC-137.7 - root@localhost:/usr/local/wedora/tripartite/to	omcat/conf - 2	(shell 5 (Free to	r Home/School)	
	9 · A ·	9 0 20	🔒 🖮 🖬 🖬 🖬	• ⑦
		1		
New Session (9)		/ \		
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File Edit View Tools Tab Window Help				
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shell 5 (Build 1060) opyright (c) 2002-2017 NetSarang Computer, Inc.	All rights	reserved.		
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				-
		• User nam	e Passyvord	100
• 192.168.137.84 ×				-users.xml
+ -> 🎍 /usr/local/wedora/trip_rtite/tomcat/conf				- 10 0
Name	Size	Туре	Modified	Attribu
#				
📕 Catalina		File folder	2017/10/20, 0:29	drwxr-
Catalina.policy	12KB	POLICY File	2014/11/3, 16:45	-rw
Catalina.properties	6KB	PROPERTI	2014/11/3, 16:45	-rw
i context.xml	1KB	XML Docu	2014/11/3, 16:45	-rw
Copy In the second seco	ЗКВ	PROPERTI	2014/11/3, 16:45	-rw
🖃 server.xml 🛛 📕	7KB	XML Docu	2018/1/4, 20:47	-rw
		Art 41 10		

2. Edit the server.xml You should find the line between the symbol " <!--" and "-->": "<Connector port="8443..." Please enable it. And add "keystoreFile="conf/tomcat.keystore" keystorePass="123456" at the end of the line.

That is :

```
<Connector port="8443" protocol="org.apache.coyote.http11.Http11Protocol"
maxThreads="150" SSLEnabled="true" scheme="https" secure="true"
clientAuth="false" sslProtocol="TLS" keystoreFile="conf/tomcat.keystore"
keystorePass="123456" />
```



Save and quit, and upload back to tomcat folder.

3. Upload the CA to tomcat folder (path: /usr/local/wedora/tripartite/tomcat/conf) via xftp



4. Restart the wedora service to take effect.

5. After tomcat start, we can visit the HTTPS URL: 192.168.137.84:8443/wedora

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D 🗞 https://192.	168.137.84:8443/wedora/	🕅 📅 🖓	er.
Le.			
	M21	VI Cloud	
		a a that is had been been	
, C.,	Username		
	Username		
-	Password		
	Password		
	Keep session		12-7
		Login	1

2.2 Real SSL operation

If you are still confused in section 2.1, this part will give you the advanced operation for real SSL. We apply for the trial versions of the SSL certificate and domain.

Note: For your deploying, make sure you have the domain to redirect to the platform's IP, and have the commercial SSL certificate.

2.2.1 Preparation

1. For this test, we apply for a domain via http://www.freenom.com.

Such as domain: henryjk404.tk. And it's DNS redirect to platform IP(for example: 47.88.149.108).

2. And we apply for the SSL CA via https://www.pianyissl.com/, for example "keystore.jks", as below



2.2.2 Operation

1. The operation is similar to section "2.1.2", here is no longer to repeat.

2. After upload the SSL CA to tomcat path, and update the "server.xml".

Hongdian IoT Cloud ×		
÷ → C ■ 安全 https://h	ienryjk404.tk:8443/wedora/login.hd	
	Wedora Cloud	
	Username	
	Password	
	Password	
	Login	
	Login	

3. If you couldn't open the URL, it maybe the firewall preventing. You can disabled the firewall or allow the port access.

```
Command for disabling firewall.
service iptables status
service iptables stop
```

3 Reference

This part shows the common operation on the Wedora platform.

3.1 Shell Command

The M2M cloud platform is installed in the Linux OS, CentOS 6. You should be able to login the CentOS via SSH, so that you can input the Shell command install, change or upfate the the platform service. We suggest xshell to login the CentOS's shell.

1. Add a new session or click an available session on Xshell as below, using SSH IP and port.

🍄 Sessions						
🞦 New 🔻 🛃	l 🛛 🖁 🖻 🔀 🔀 Pro	operties 🛛 🗀 🛛 📆 🗍	= 🔻 alic			
All Sessions						
Name		Host 🔺	Port	Protocol	User N	Description
Provide Alicentos		47.88.149.108	22	SSH	root	
	Alicentos Properties					? 💌
	<u>Category:</u>					
	Connection Authentication	Connection				
	Login Prompts	General Name: Alice	ntos			_
	⊡- SSH	Protocol: SSH			•	
	Tunneling	Host: 47.8	8.149.108			
	SFTP TELNET	Port Number: 22	×			
	RLOGIN	Description:				
	Proxy					
	Keep Alive	Deserves				

2. After inputting the correct user name and password, you should enter the Shell as below



3.2 Transfer file via SFTP

We can transfer the file between local PC and CentOS server via sftp.

1. Open xshell client and login the shell command of the CentOS.

2. Input command cd <path>, and then click "xftp" icon, turn to xftp client for file transfering. As below.

Ø Wedora_test - root⊛localhost:/usr/local/wedora/tomcat7/webapps - Xshell 5 (Free for Hom File Edit View Tools Tab Window Help	192.168.184.144 - Xftp 5	(Free for Hom mands Tool:	ie/School) s Window	Help				×
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ssh://root:******@192.168.184.144:22	📅 Host name or IP addr	ess			 User name 	Password		
To add the current session, click on the left arrow button.	Desktop ×			\rightarrow	• 192.168.184.144 ×		-	
• 1 Wedora_test × • 2 Wedora_test × +	🔶 🔶 🧮 Desktop		-	11 C	🔶 🔶 🍌 /usr/local/wedora/t	omcat7/webapps	- 83	Ģ
ast login: Thu Jul 13 20:17:55 2017 from 192.168.184.1	Name	Size	Туре	Mo _	Name		Size T	ype
<pre>[root@localhost ~]# cd /usr/local/wedora/tomcat7/webapps/</pre>	Items All Control Panel Items		System Fol	197	1			
[root@localhost_webapps]# cp -1 weddra//weddraback0/15	📑 Computer		System Fol	197	퉬 wedora		F	ile fo
_ICENSE wedora	Secontrol Panel		System Fol	197	LICENSE	172 B	ytes F	ile
[root@localhost webapps]# cd	Cibraries		System Fol	197				_
[root@localhost tomcat7]# ls	Sign Network		System Fol	197				_
[root/]ocalhost_tomcat71#_cd_/usr/local/wedora/tomcat7/webaoos/	퉬 a		File folder	201				
[root@localhost webapps]# [Administrator		System Fol	201				
	BD_EA_ZM8620V1.0.0		File folder	201				
Send text to the current tab only	Config_Import		File folder	201				

3. Drag the file from your local folder to the Xftp for uploading.

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d ▶ 2017071 💌 🕙	✓ Search 20170713 ve	rsion 🖇		← → 🎉	/usr/local/wedora/tomcat7/	webapps 🔻 İ	n 0
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			. 197) . 197)	LICENSE		172 Bytes	File
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)713.tar.gz Date modified: 2 Size: 4	2017/7/13 16:33 42.3 MB		201' 201' *	•	III		Þ
	5-						
Send text to the curre Name		Status	Progress	Size	Local Path		<->
📑 wedd	ora_0713.tar.gz	In progres	0%	42.34MB	E:\1Work\3_	客户custom	+
Drag the fi							

3.3 Restart wedora

It can restart all the platform services. Enter the shell command line, input commands: cd /usr/local/wedora/bin **1**s ./shutdown_wedora.sh End by "Kafka is already closed!" [root@localhost bin]# ./shutdown_wedora.sh stop mqtt Node 'emq@127.0.0.1' not responding to ping stop kafka No kafka server to stop stop zookeeper Zookeeper JMX enabled by default Using config: /usr/local/wedora/tripartite/ Stopping zookeeper ... no zookeeper to stop stop fileserver stop tomcat stop ftp.wmmp stop ftp.mqtt stop ibserver stop wedora-stat No wedora-stat server to stop Mqtt is already closed! Zookeeper is already closed! Kafka is already closed!

We can start up the services with the flowing command.

./startup_wedora.sh

End by "wedora startup".

3.4 Change tomcat port

The URL visiting is base on tomcat service, and we can change the URL's port in tomcat configuration. Such as the platform URL is:

http://192.168.137.84:51682/wedora

(i) ² 192,168,137.8 ⁴	:51682/wedora/	~ 謎 … ☆ 皮索
	L\$	
	M2	M Cloud
1.00	Username	
	Password	
	Keep session	
		Login

1. We can change the port in TOMCAT_PATH/conf/server.xml

cd /usr/local/wedora/tripartite/tomcat/conf

2. Then turn to xftp for editing the server.xml; or use command vi server.xml to edit

	Euora/inpartice/comcat/com-			- 0
	W. I. W. A.	9 10 KN		• 0
B ssh://root:******©192.168.137.84:22				
R New Session (9)		>		
File Edit View Tools Tab Window	Help		X	
1 mvPC-137.7	• 3 mvPC-137.7	4 mvPC-137	7 × +	
shell 5 (Build 1060)	mputer, Inc. All rights	reserved.		
opjinght (of roor roor hotodrang co	poter, inc. rights			
ype `help' to learn how to use Xshe d:\~]\$	ell prompt.			
oppecting to 192 168 137 84-22				
	/			
		• User nam	e Password	
• 192.168.137.84 ×				-users.xml
🖛 🔿 🕌 /usr/local/wedora/trip_rtite/to	omcat/conf			
Name	Size	Туре	Modified	Attribu
* -				
📕 Catalina		File folder	2017/10/20, 0:29	drwxr-
Catalina.policy	12KB	POLICY File	2014/11/3, 16:45	-rw
Catalina.properties	6KB	PROPERTI	2014/11/3, 16:45	-rw
context.xml	1KB	XML Docu	2014/11/3, 16:45	-rw
logging.properties	ЗКВ	PROPERTI	2014/11/3, 16:45	-rw
🗃 server.xml 🛛 📕	7КВ	XML Docu	2018/1/4, 20:47	-rw
Latt	11/5	VIII D	THE & 28 H 275 H 27 AP	

3. Change the port in server.xml, and upload it back to xftp.

```
4. Restart the tomcat in shell command; or you can also restart wedora.
cd /usr/local/wedora/tripartite/tomcat/bin
ls
./shutdown.sh
ps -ef|grep tomcat
#Check if tomcat was closed, if not, input "kill -9 <tomcat PID>"
./startup.sh
```





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