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MTTK AS2

Installation Manual

Directory

1 Introduction

1.1 Document purpose

Description of this document MTTK AS2 product installation. Target readers include product implementers and customer technicians.

1.2 Author

Name of name	Company	Telephone	Email
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1.3 Document history

Version	Date	Moderators	Description
1.0	2020/07/16		

1.4 Relevant agreements

None

1.5 Services and contact methods

If you have any questions, please email to as2@mttk.com.cn

2   Operating environment

2.1 Hardware environment

List the minimum hardware configuration

CPU	Memory	Disk
2	4G	50G

2.2 Software environment

Type	Products	Results
Operating system	Windows	Windows 7 10 Tests passed Other versions are tested for customer needs
	Linux	Cent OS (3.10.xx core) test passed Other versions are tested for customer needs
	Unix	Not tested
Database	MongoDB	4.0 Test passed
Java	Oracle JRE	1.5 Not supported 1.8 Test passed
	OpenJDK	1.8 Test passed
	Other JRE	Not tested

3   Application installation

3.1 Inspection before installation

Number	Project	Requirements	Results
1.1	Hardware	Compliance with hardware environment section requirements	
1.2	Operating system	Compliance with Software Environment Section requirements	
1.3	Database	Compliance with software environment section requirements MTTK AS2 require databases to store configuration information and run records The installer has database administrator privileges	
1.4	Java	Compliance with Software Environment Section requirements	
1.5	Network (optional)	If the system needs to be accessed by an external system, it needs a stable network connection and a fixed IP address is recommended	

3.2 Database installation

3.2.1 Overview

MTTK AS2 use MongoDB databases as back - end storage.

3.3 Complete installation package Full

full installation package with mongdb environment currently this type of installation package only supports windows environment

Installation package structure

| Level 1 catalogue	Secondary	Description
mttk_as2	work	Windows version of the MTTK AS2 program directory details reference directory structure

Unzip the downloaded compressed file into the / full directory

3.3.1 mongdb of operation

● Access mttk_as2\work\bin Directory

Click on mongoStartup.bat running script

● After running the script successfully, the following diagram appears in the service of the system to indicate that the mongDB running environment is started. (When the window is closed, the mongDB environment is automatically closed. If you need a background service to start, start windows service)


```
C:\Windows\system32\cmd.exe
work path is E:\mttk_v2\mttk_as2\build\mttk_as2\work
mongo start successful
```
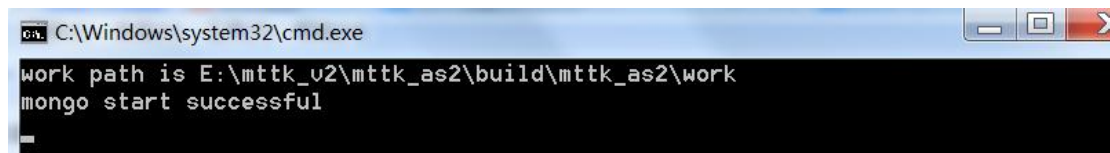
Running mongoStartup.bat error

You need to set to be set if an error of the type "mongod.exe can not be used as a function script or runable file" occurs in the running script. To add an absolute path to the mongdb\bin <path>.
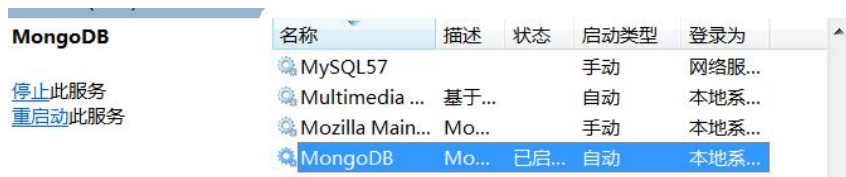;\mttk_as2\work\runtime\mongodb\bin;

Start the mongdb windows service

● Access mttk_as2\work\bin Directory

Click on mongoInstallService.bat running script

● After running the script successfully, the mongDB service will appear in the system service as shown below, and the running environment mongDB after starting the service is started.

There is no \<MongoDB\> service item in the running mongoStartup.bat service list

If you run again with administrator privileges installService.bat ,window you need administrator privileges to add services

uninstall windows services

- Access mttk_as2\work\bin Directory

Click Run mongoUninstallService.bat

3.3.2 MTTK_AS2 of operation

Once mongDB service is installed, go to the mttk_as2\work\bin directory and run startup.bat (windows)

Enter the http://\<ip\>:5555 on the tour Access management interface

3.4 Basic installation package Less

The basic installation package requires the user to install jdk run environment and mongdb database

Installation package structure

Level 1 catalogue	Secondary	Description
mttk_as2	work	MTTK AS2 program directory details reference directory structure

Unzip the downloaded compressed file into the / less directory

3.4.1 Install the JAVA environment

Download the corresponding version of jdk and copy the jdk/jre file to work/runTime/jre/. The final effect is as follows
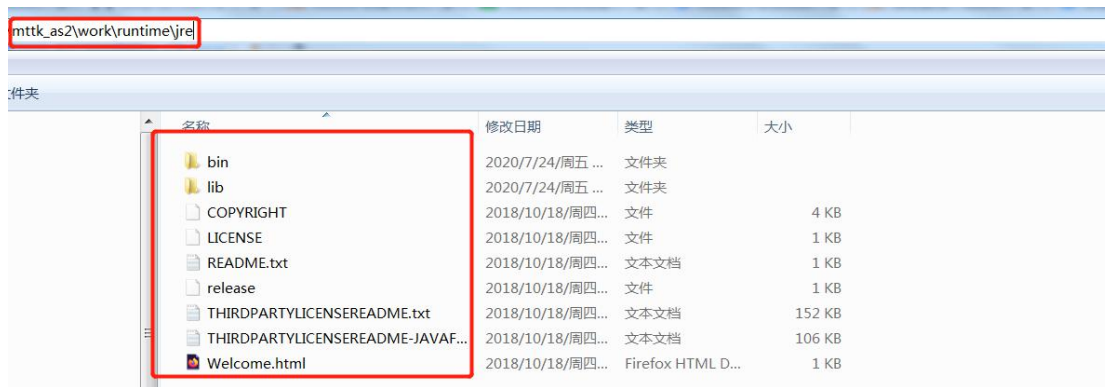
3.4.2   mongdb database installed

Windows:

After the database installation is complete, you need to create the database.

Start the MongoDB server open cmd.exe. 5

Input command:

mongorestore.exe –drop database\

Note:

1. running a mongorestore.exe command, you need to add its directory to the system variable Path, or go to

Its directory is rerun;

Other： service mode operation, cmd operation:

mongod --bind_ip 0.0.0.0--logpath [path]--logappend --dbpath [path]--port 27017

serviceName "MongoDB"--serviceDisplayName "MongoDB"--install

Linux ：

Input Operating System Command

mongorestore.exe –drop database\

Initialize database

First install this software, need to import initial data in mongodb. Initial data in / db_data of the corresponding installation package

Record it.

Run the mongdb command ,(no environment variables need to run to mongdb unzipped bin directory)

Create a database (windows/linux):

mongo

">" prompt input appears

use mttk_as2

Create a database named mttk_as2.

Create users

use admin

```
db.createUser ({user :" admin ",
 pwd： "123456",
 roles： [{role： "readWrite",db： "mttk_as2"}]
 })
```

  This is to create admin user under admin database, password is 123456. Has a mttk_as2
database
Read and write permissions. revised as needed.

3.4.3 MTTK_AS2 of operation

Go to the work\bin directory and run startup.bat (windows) startup.sh (linux)

Enter the http://<ip>:5555 on the tour Access management interface

3.5 Follow-up configuration

Select database

  Amendment of work\conf\mongo.properties documents

**Modify database connection information**

  Modify the database server address, target database, user name, password, and authentication
database in the mongo.properties.

```
 1  #
 2  #Mongodb client configuration
 3  #
 4  #Target database
 5  database=mttk_as2
 6  #Authentication
 7  auth.userName=admin
 8  auth.password=123456
 9  auth.database=admin
10  #Server,支持通过逗号分隔的多个服务器列表
11  servers=localhost:27017
12  #options
```

Setup Java Virtual Machine

download the Java operating environment (JRE) of the corresponding operating system system
and install or unzip to runtime\jre. directory As shown below
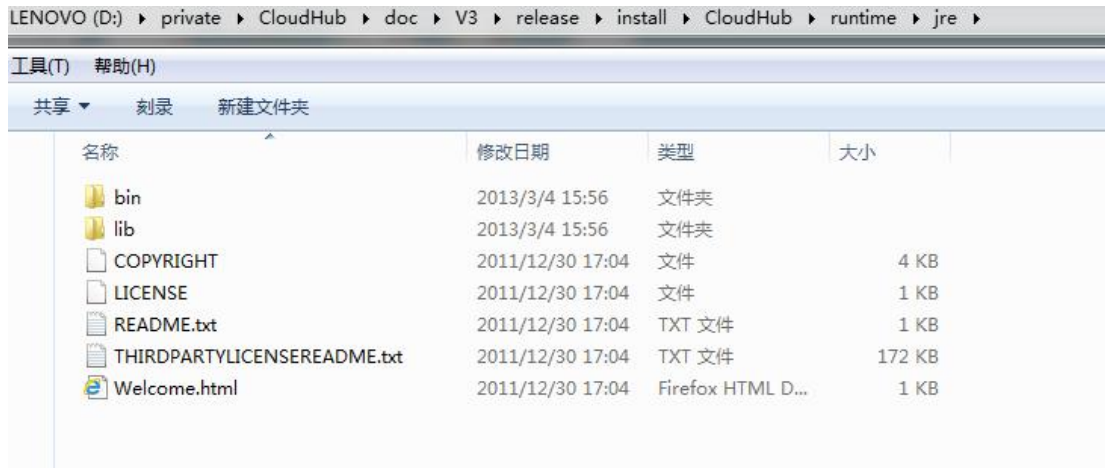
If you want to set Java virtual machine memory footprint,

Windows environment, remove the following comments server .bat the file (remove the rem in the second line),

```
rem if you want to set java vm machine, here is the place
rem set JAVA_OPTS=-server -Xms2048m -Xmx2048m -XX:PermSize=256M -XX:MaxPermSize=512M
```

Linux environment, remove the following comment from the file server .sh (remove the second line #)

```
# if you want to set java vm machine, here is the place
#JAVA_OPTS="-server -Xms2048m -Xmx2048m -XX:PermSize=256M -XX:MaxPermSize=512M"
```

Refer to Java corresponding document Java virtual machine parameters

note that if the installer windows the service, the modified memory is not here, refer to the install into Windows services section.

the use of a 64-bit Java virtual machine is highly recommended due to the 32-bit maximum memory limit (command line execution is 3.2 G,Windows service execution is 1 G).

Note: If you use Java virtual machines in other locations, modify bin/server.sh (Linux) or bin/server.bat (Windows) and modify rows

JAVA_HOME="$CHUB_HOME/runtime/jre"(Linux)

or

set JAVA_HOME=. runtime\jre (Windows)

Target location

3.6 Directory structure

When the installation is complete, the directory structure in the installation directory is as follows

Directory	Note
bin	Start the script directory
	s tartup .sh (startup.bat) starts the product
	shutdown.sh stop this product
	installService (64). bat installed windows services
	un installService (64). bat offloading windows services
	mongoStartup.bat launch mongoDB database
	mongoInstallService .bat installation mongoDB windows services (64-bit windows)

	mongoUninstallService.bat uninstall mongoDB windows service (64-bit windows)
	Subdirectories jsl the code and configuration needed to install the windows service
conf	Configuration directory
data	Data Directory
	A sub-directory is payload as a message library, stored in different directories
	Backup directory archive subdirectory, backup run configuration
	The path db mongDB database under subdirectory
	Subdirectory dump to send and receive original messages for AS2 saved by the system
doc	MTTK_AS2 related documentation
dynamic	mapping storage path deployed
lib	J ar package stores the directory, and all files under it and subdirectory are loaded at startup
	The following subdirectory structures are recommended
	sys MTTK AS2 core jar package for software
	ext jar package used in the system, users generally do not need to modify
log	Log directory
runtime	Some third-party programs needed to run
	jre java operating environment
	Mongodb mongodb operating environment
temp	Temporary directory, user can clear regularly
web	Used to store Web applications, such as listening on port 5555 by Admin Console, default

3.7 Installation test

start MTTK AS2, make sure there is no error information in the log.

To access the administration interface http://<ip>:5555, to enter the administrator interface for simple operations (default account is admin, password 123456)

3.8 Installed as a Windows service

this step is only valid for Windows.

Run bin\installService.bat (for 32-bit Windows) or bin\installService64.bat (for 64-bit Windows) installation services as follows

To advanced configuration, edit the file jsl.ini (for 32-bit Windows) or jsl64.ini (for 64-bit Windows), and the virtual machine memory configuration please set the corresponding startup item in this configuration file.

Uninstall Windows service run bin\uninstallService.bat (for 32-bit Windows) or bin\uninstallService64.bat (for 64-bit Windows)

3.9 Software Unloading

The installation and operation of the system will not access any registry or other system directory, uninstall process only need to delete the corresponding files and databases

- Unloading Windows service
- Delete database
- Delete System Directory

4 Property Configuration

4.1 Introduction

 mongo.properties provides configuration for the database MongoDB this software connection

Since modifying this file may have unpredictable consequences, please clarify the meaning of each configuration item after modification.

4.2 mongo.properties configuration project

Classification	Project	Meaning
Database	database	Database MTTK AS2 use
	auth.userName	User name for authentication
	auth.password	Password for authentication
	auth.database	Certification database
	servers	Specifies the remote server where the MongoDB instance is located. Server address and port

4.3 Log setup

Default logs are stored in the log directory of the installation path

4.4 Connection test

above C lub Hub started successfully, make sure there is no error message in the log.

Access the administration interface, enter the address of the server in the browser, add 5555(default port), enter the administrator interface for simple operation (default account number is admin, password is 123456)

5 Frequently Asked Questions and Answers