

iTools

Deployment Guide

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Document Control

Version	Change description	Changed by	Date	Approved by	Date
0.1	Initiate and draft	Quan Nguyen	May 14, 2019		
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1. Overview

TBD

1.1. Requirement

TBD













1.2. Approach

- TBD

2. Installation

All needed software has been uploaded to GoogleDrive as below link

<https://drive.google.com/drive/folders/1IEzXBppFtlE5FTJrVOuUWWg6JOc4x3zt?usp=sharing>

Name	Date modified	Type	Size
 7z1900.exe	5/7/2019 10:38 PM	Application	1,159 KB
 hidapi.dll	7/12/2017 9:40 PM	Application extens...	40 KB
 HIDSimulation.zip	1/3/2019 6:32 PM	zip Archive	1,151 KB
 jre-8u211-windows-i586.exe	5/7/2019 10:34 PM	Application	67,959 KB
 mysql-installer-community-5.7.23.0.msi	5/10/2019 4:18 AM	Windows Installer ...	379,940 KB
 mysql-workbench-community-6.3.8-win32.msi	5/7/2019 11:09 PM	Windows Installer ...	24,384 KB
 mysql-workbench-community-6.3.10-winx64.msi	5/7/2019 10:29 PM	Windows Installer ...	28,908 KB
 NDP452-KB2901907-x86-x64-AllOS-ENU.exe	5/7/2019 10:42 PM	Application	68,359 KB
 npp.7.6.6.Installer.exe	5/7/2019 10:42 PM	Application	3,487 KB
 TeamViewer 14.1.3399.exe	1/13/2019 5:31 PM	Application	70,421 KB
 vc_redist.x86.exe	5/7/2019 10:57 PM	Application	13,446 KB
 vc_redist_x86.exe	5/7/2019 10:56 PM	Application	6,352 KB

2.1. Installation checklist

#	Category	Task	Note	VM-1	VM-2	VM-3	VM-4	VM-5	VM-6
				VINAMOIL TOOLS	MFC	MFC	VINAMOIL TOOLS	MFC	VINAMOIL TOOLS
1	Support software	7 Zip		x	x	x	x	x	
2		Notepad++		x	x	x	x	x	
3		Team Viewer		x	x	x	x	x	
4	Minimum requirement for mysql server and workbench	vc_redist.x86	Microsoft Visual C++ 2015	x	x	x	x	x	
5		vc_redist_x86	Microsoft Visual C++ 2013	x	x	x	x	x	
6		NDP452-KB2901907-x86-x64-AllOS-ENU	Microsoft.Net Framework 4.5.2	x	x	x	x	x	

7	Mysql	mysql-installer-community-5.7.23.0	Mysql Server	x	x	x	x	x	
8		mysql-workbench-community-6.3.8-win32	Workbench	x	x	x	x	x	
9	Config Mysql	Config Mysqlserver		x	x	x	x	x	
10		Edit my.ini		x	x	x	x	x	
11		Restart Mysql server		x	x	x	x	x	
12	Java	jre-8u211-windows-i586		x	x	x	x	x	
13	Simulation PC connect board via USB port	Copy dll toJRE		x	x	x	x	x	
14		Check HDMI simulation		x	x	x	x	x	
15	Tool verification	Create database		x	x	x	x	x	
16		Open iTools		x	x	x	x	x	

2.2. Java

- Run `jre-8u211-windows-i586.exe` from Soft folder

2.3. Simulation PC connect board via USB port

- Copy hidapi.dll into **C:\Program Files (x86)\Java\jre<version>\bin** folder
- Extract the folder **HIDSimulation.zip** and run **HID.jar**
- In case the PC does not connect the board, we will see the message as below. If the PC connect to the board, it will send the message to board and get the message return

```

Java Console
configfile: /D:/OneDrive/OneDrive - Savarti Company Limited/Savarti/050_Individual/ExtProject
Checking config...
VendorId=0x0461
ProductId=0x0020
Message=[[01 10] [02 15] [03 20]]
Read_Data_Wait_Time=10

-----Data after parsing config-----
productId: 0x0020
vendorId: 0x0461
Send message: 01 and sleep 10s
Send message: 02 and sleep 15s
Send message: 03 and sleep 20s
readWaitTime: 10

-----

Starting HID services.

Calculating attached devices...

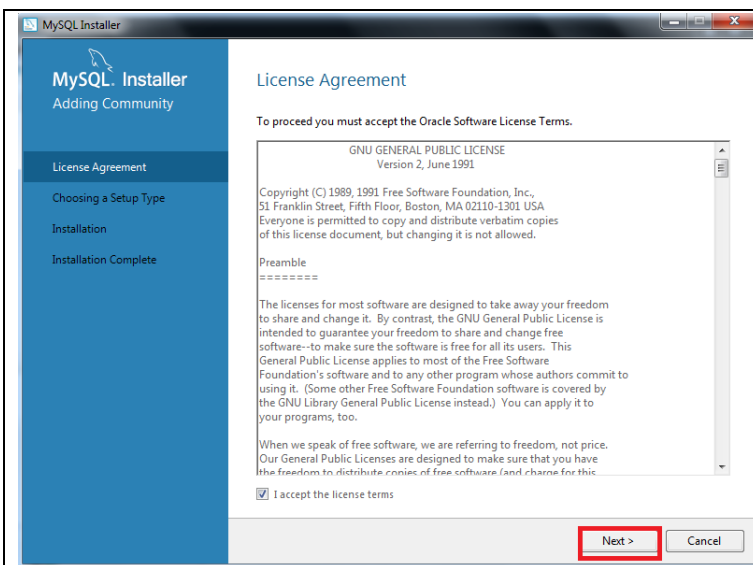
HidDevice [vendorId=0xffff8087, productId=0xa1e, product=null]
HidDevice [vendorId=0x46d, productId=0xffffc534, product=USB Receiver]
HidDevice [vendorId=0xffff8087, productId=0xa1e, product=null]
HidDevice [vendorId=0xffff8087, productId=0xa1e, product=null]
HidDevice [vendorId=0xffff8087, productId=0xa1e, product=null]
HidDevice [vendorId=0xffff8087, productId=0xa1e, product=null]
HidDevice [vendorId=0x46d, productId=0xffffc534, product=USB Receiver]
HidDevice [vendorId=0xffff8087, productId=0xa1e, product=null]
HidDevice [vendorId=0xffff8087, productId=0xa1e, product=null]
HidDevice [vendorId=0xffff8087, productId=0xa1e, product=null]
HidDevice [vendorId=0xffff8087, productId=0xa1e, product=null]
HidDevice [vendorId=0x46d, productId=0xffffc534, product=USB Receiver]
HidDevice [vendorId=0x6cb, productId=0x78f6, product=HID2C Device]
HidDevice [vendorId=0x6cb, productId=0x78f6, product=HID2C Device]
HidDevice [vendorId=0xffff8087, productId=0xa1e, product=null]
HidDevice [vendorId=0x46d, productId=0xffffc534, product=USB Receiver]
HidDevice [vendorId=0x46d, productId=0xffffc534, product=USB Receiver]
HidDevice [vendorId=0xffff8087, productId=0xa1e, product=null]
HidDevice [vendorId=0xffff8087, productId=0xa1e, product=null]
HidDevice [vendorId=0xffff8087, productId=0xa1e, product=null]
HidDevice [vendorId=0x45e, productId=0x0, product=null]
HidDevice [vendorId=0x45e, productId=0x0, product=null]
HidDevice [vendorId=0xffff8087, productId=0xa1e, product=null]
HidDevice [vendorId=0xffff8087, productId=0xa1e, product=null]
HidDevice [vendorId=0xffff8087, productId=0xa1e, product=null]
HidDevice [vendorId=0x45e, productId=0x0, product=null]
HidDevice [vendorId=0xffff8087, productId=0xa1e, product=null]
HidDevice [vendorId=0x46d, productId=0xffffc534, product=USB Receiver]

Do not find HID device - please help me to recheck config file
clear

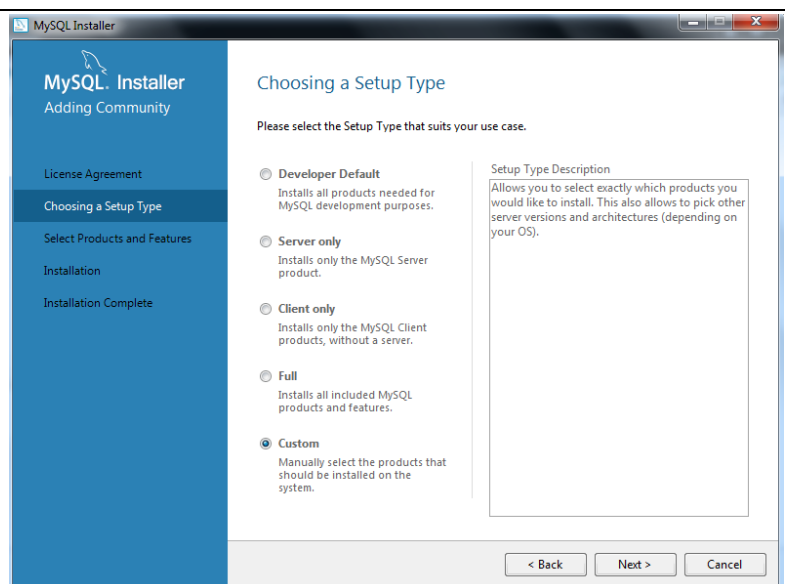
```

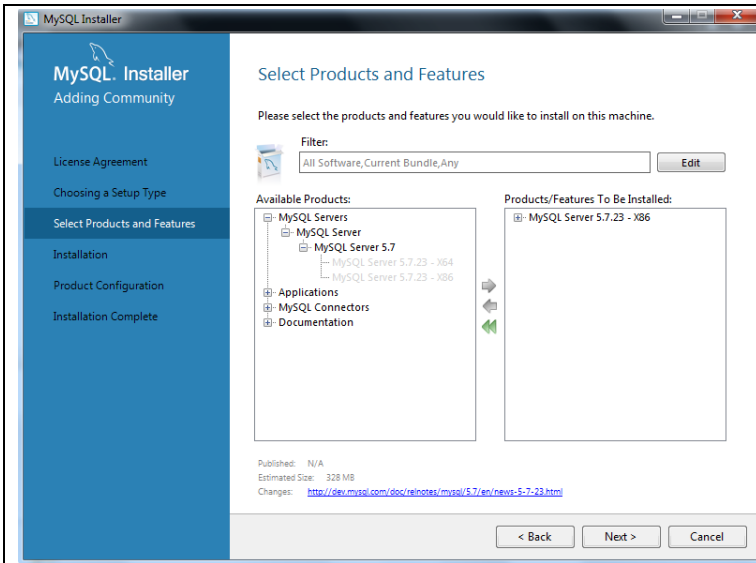
2.4. MySQL

- Install support software: [4], [5], [6]
- Install mysqlserver

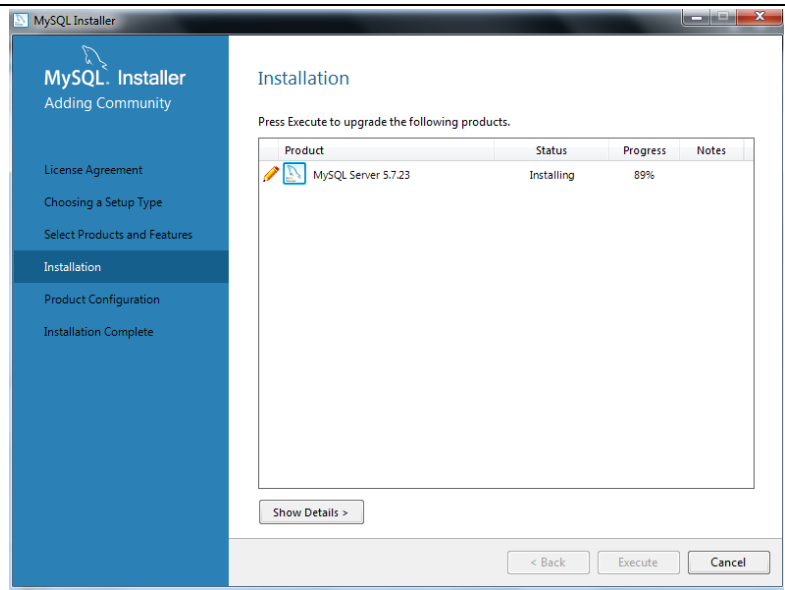


mysql-installer-community-5.7.23.0

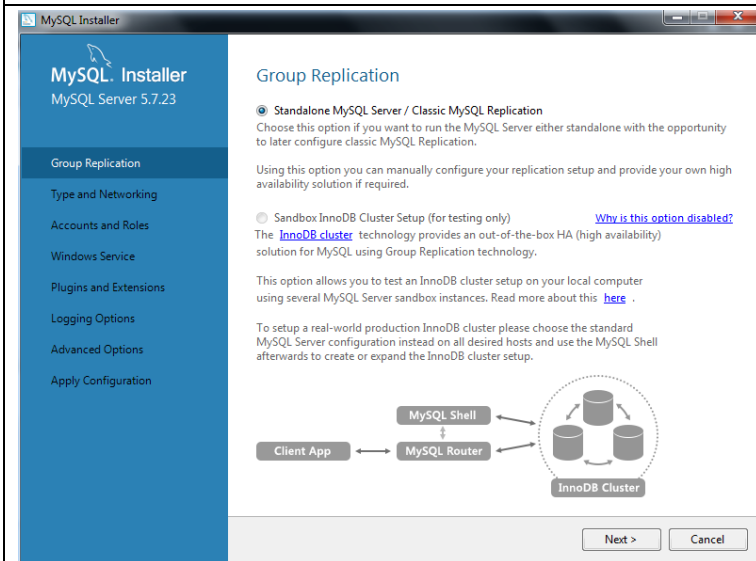




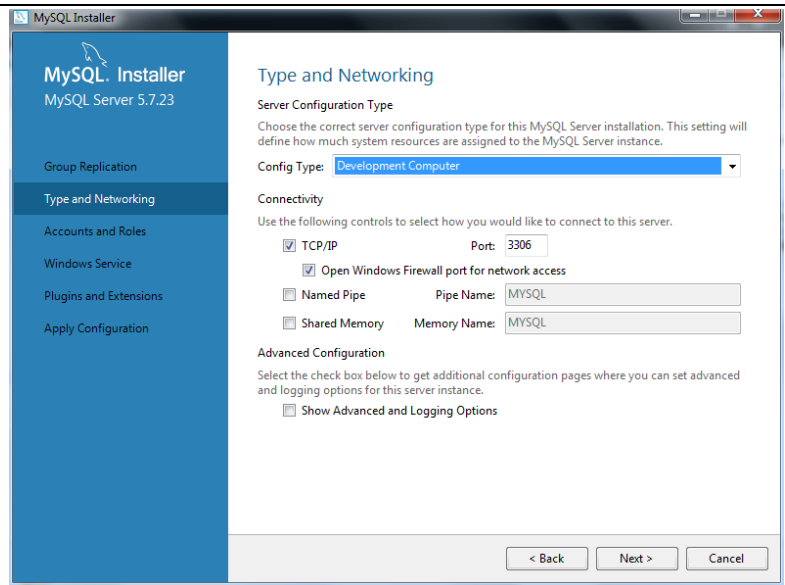
Just add MySQL server 5.6.23 only

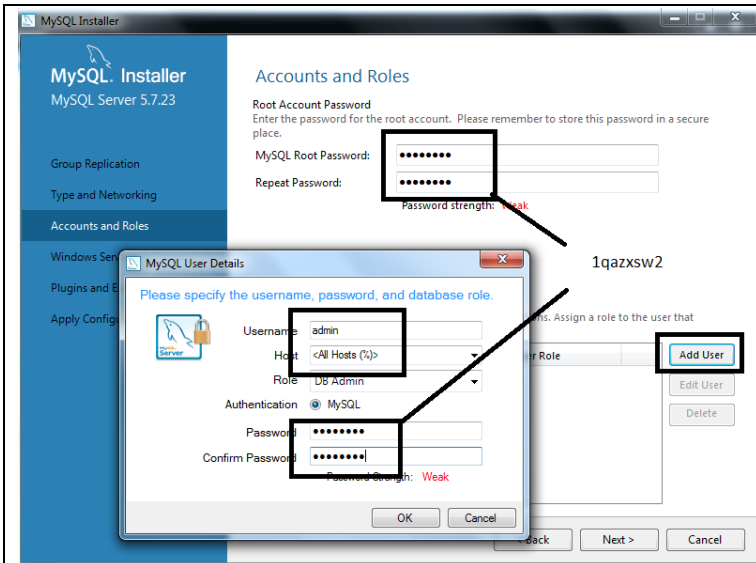


Install successfully

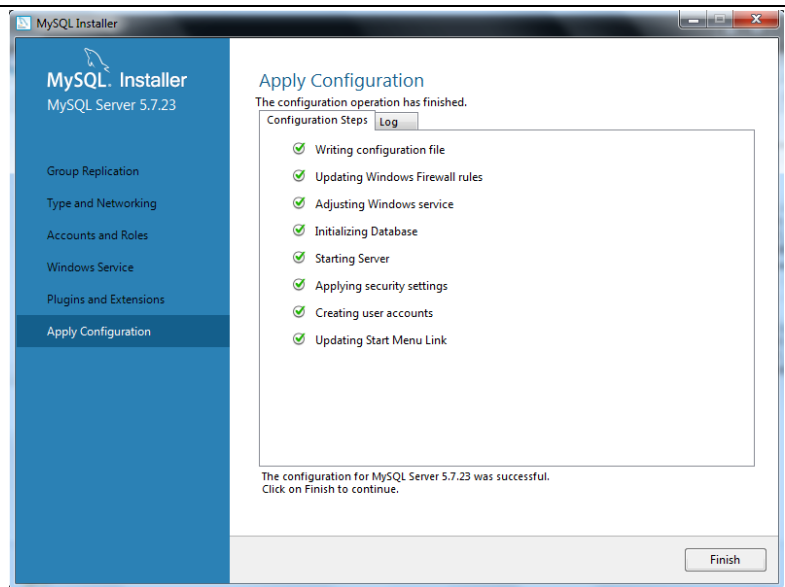
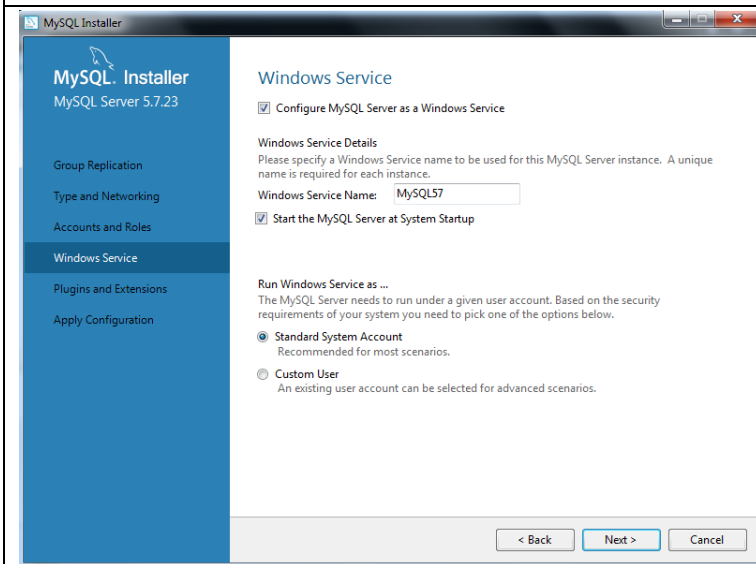
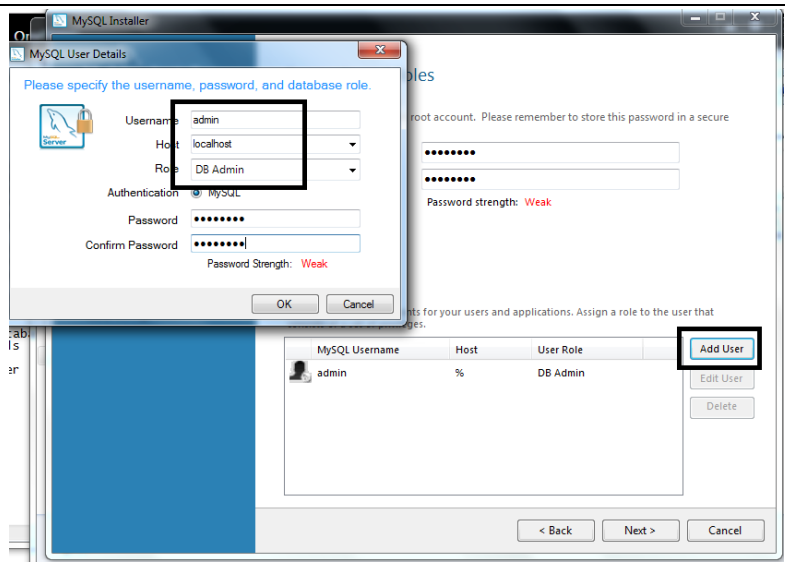


Configure for MySQL server

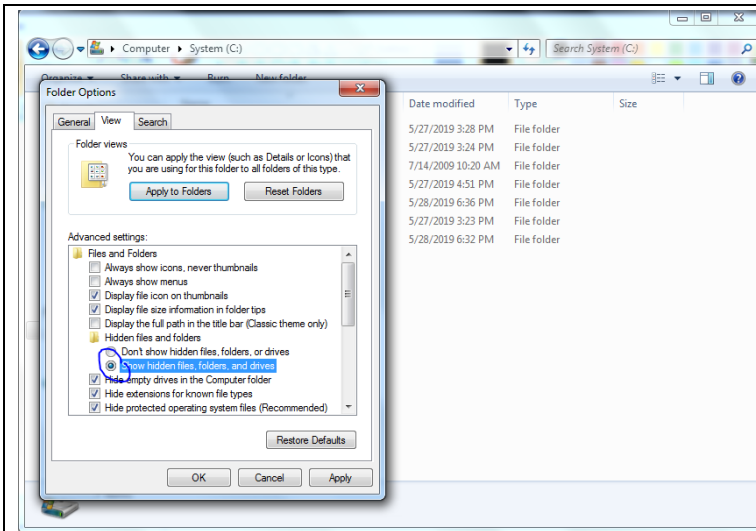




We will have 3 account: root, admin@% and admin@localhost
All account will have the same password 1qazxsw2

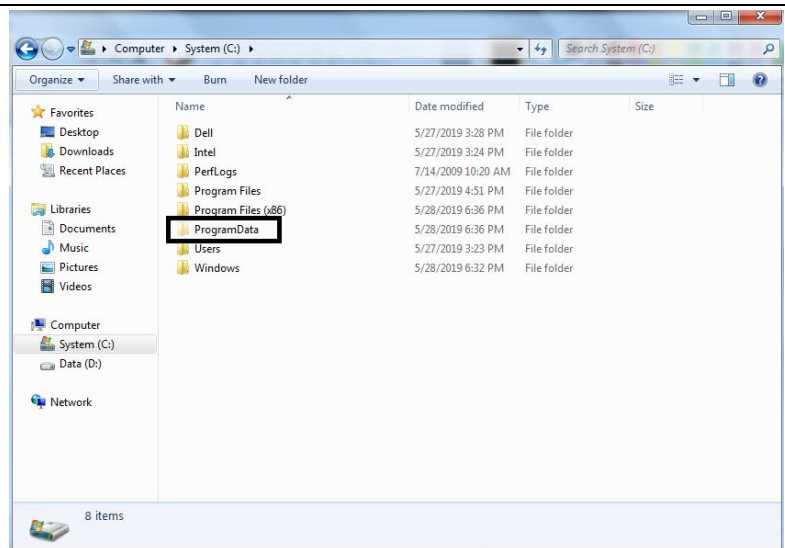


Start MySQL Server successfully

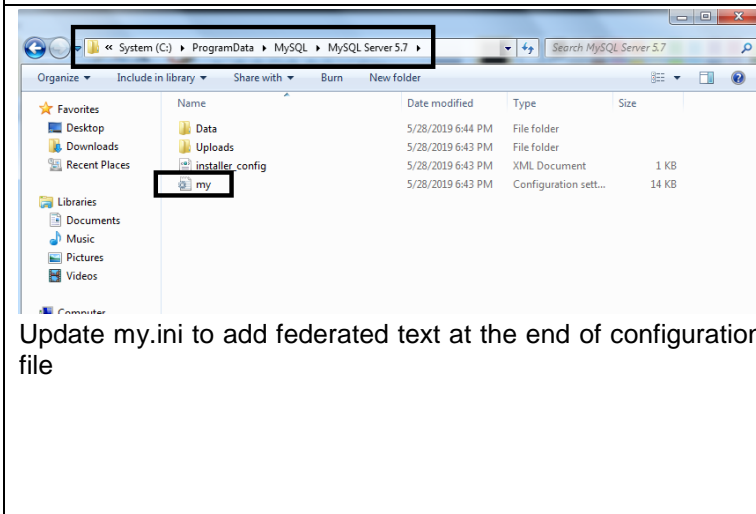


We need to change the MySQL server configuration to support federated mode

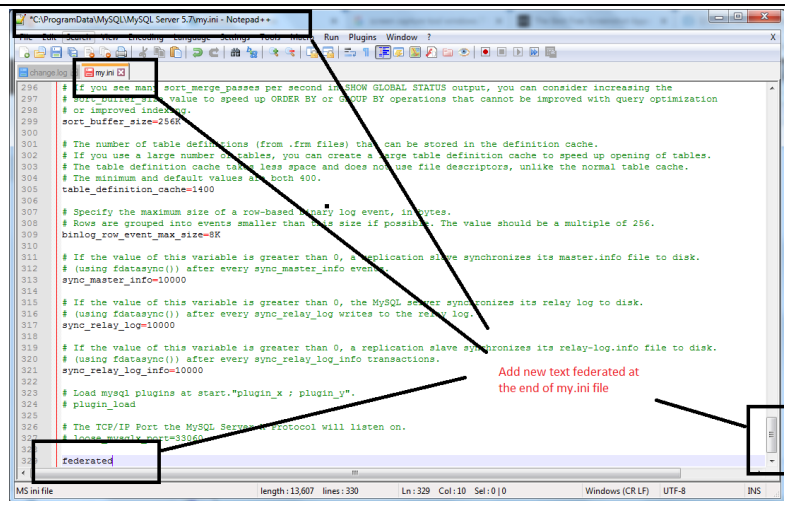
This configuration located on Program Data folder. This folder will be hidden by default in C:\ so we have to show all hidden folder to change the configuration

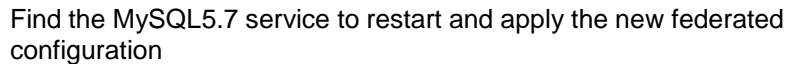
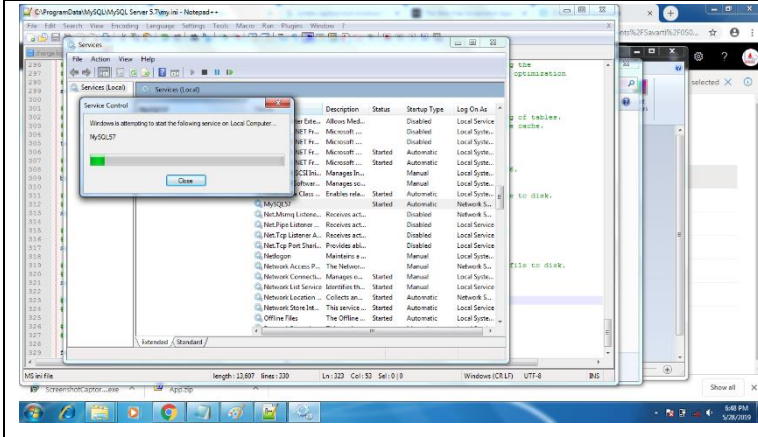


Now the Program Data folder has been shown



Update my.ini to add federated text at the end of configuration file

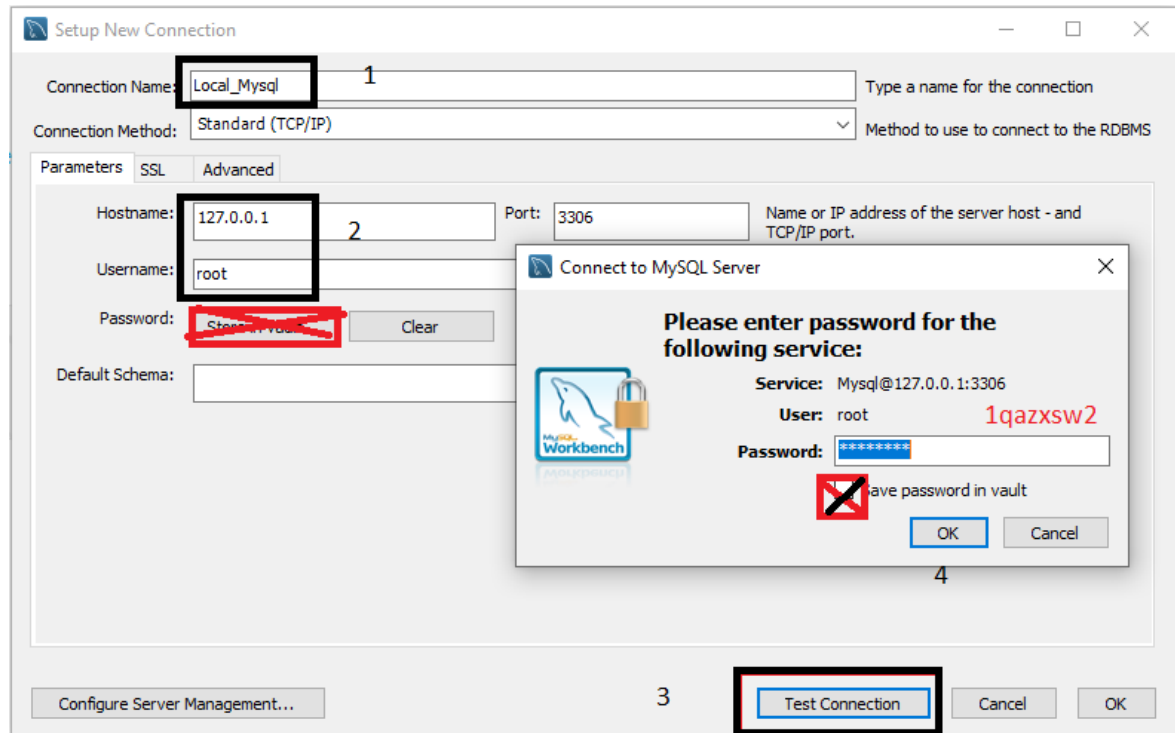




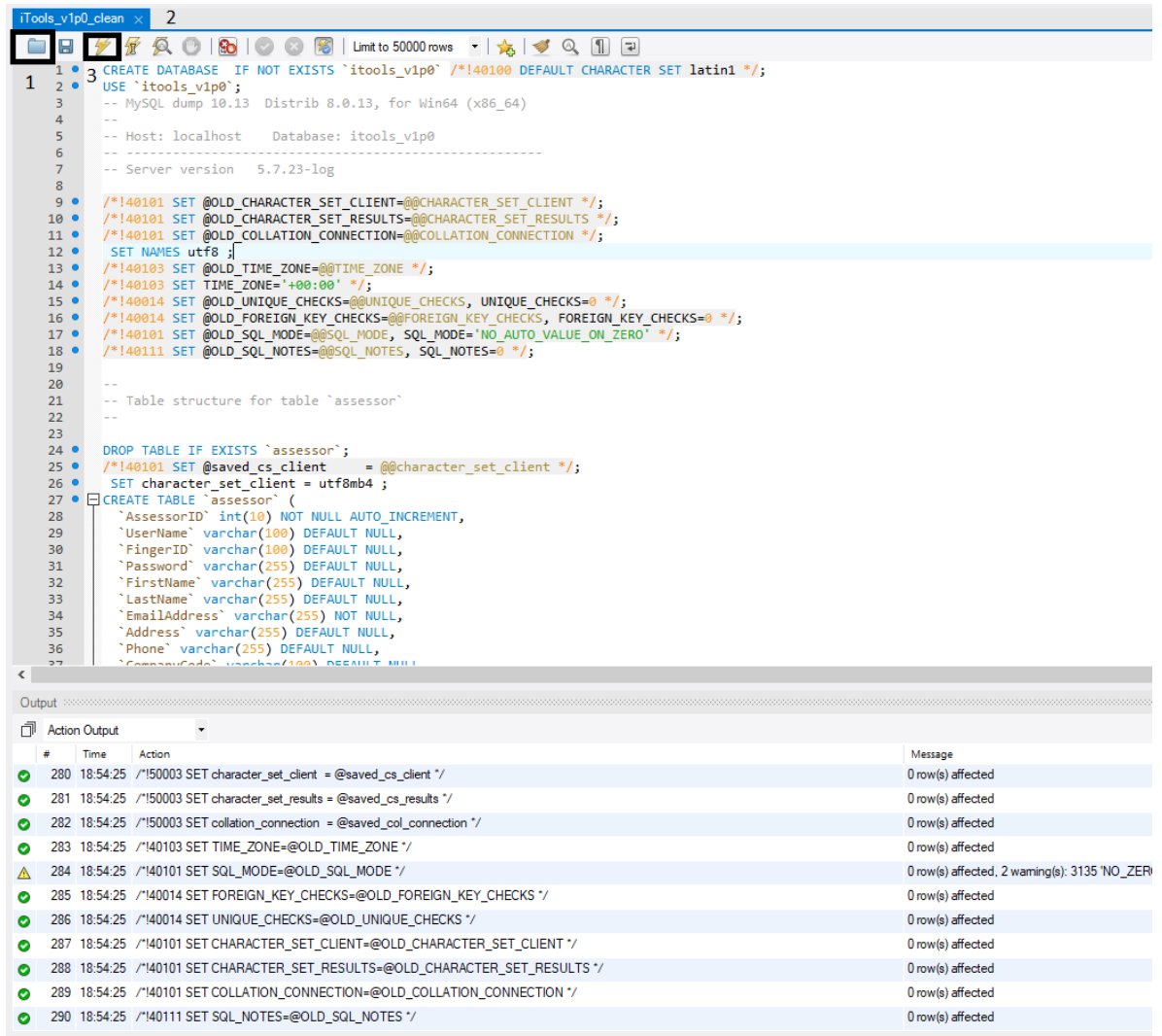
- ## 2.5. Create database

- Create new connection if not existed – **DO NOT SAVE THE**

PASSWORD TO KEEP THE SECURITY



- Create database
 - Run the script `Soft\iTools_v1p0_clean.sql`



```

1 3 CREATE DATABASE IF NOT EXISTS `itools_v1p0` /*!40100 DEFAULT CHARACTER SET latin1 */;
2  USE `itools_v1p0`;
3  -- MySQL dump 10.13  Distrib 8.0.13, for Win64 (x86_64)
4  --
5  -- Host: localhost    Database: itools_v1p0
6  --
7  -- Server version  5.7.23-log
8
9  /*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT */;
10 /*!40101 SET @OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS */;
11 /*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION */;
12 SET NAMES utf8 ;
13 /*!40103 SET @OLD_TIME_ZONE=@@TIME_ZONE */;
14 /*!40103 SET TIME_ZONE='+00:00' */;
15 /*!40014 SET @OLD_UNIQUE_CHECKS=@@UNIQUE_CHECKS, UNIQUE_CHECKS=0 */;
16 /*!40014 SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS, FOREIGN_KEY_CHECKS=0 */;
17 /*!40101 SET @OLD_SQL_MODE=@@SQL_MODE, SQL_MODE='NO_AUTO_VALUE_ON_ZERO' */;
18 /*!40111 SET @OLD_SQL_NOTES=@@SQL_NOTES, SQL_NOTES=0 */;
19
20 --
21 -- Table structure for table `assessor`
22 --
23
24 DROP TABLE IF EXISTS `assessor`;
25 /*!40101 SET @saved_cs_client      = @@character_set_client */;
26 SET character_set_client = utf8mb4 ;
27 CREATE TABLE `assessor` (
28   `AssessorID` int(10) NOT NULL AUTO_INCREMENT,
29   `UserName` varchar(100) DEFAULT NULL,
30   `FingerID` varchar(100) DEFAULT NULL,
31   `Password` varchar(255) DEFAULT NULL,
32   `FirstName` varchar(255) DEFAULT NULL,
33   `LastName` varchar(255) DEFAULT NULL,
34   `EmailAddress` varchar(255) NOT NULL,
35   `Address` varchar(255) DEFAULT NULL,
36   `Phone` varchar(255) DEFAULT NULL,
37   `CompanyCode` varchar(100) DEFAULT NULL
38 ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;

```

#	Time	Action	Message
280	18:54:25	/*!50003 SET character_set_client = @saved_cs_client */	0 row(s) affected
281	18:54:25	/*!50003 SET character_set_results = @saved_cs_results */	0 row(s) affected
282	18:54:25	/*!50003 SET collation_connection = @saved_col_connection */	0 row(s) affected
283	18:54:25	/*!40103 SET TIME_ZONE=@OLD_TIME_ZONE */	0 row(s) affected
284	18:54:25	/*!40101 SET SQL_MODE=@OLD_SQL_MODE */	0 row(s) affected, 2 warning(s): 3135 'NO_ZERO'
285	18:54:25	/*!40014 SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS */	0 row(s) affected
286	18:54:25	/*!40014 SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS */	0 row(s) affected
287	18:54:25	/*!40101 SET CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT */	0 row(s) affected
288	18:54:25	/*!40101 SET CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULTS */	0 row(s) affected
289	18:54:25	/*!40101 SET COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION */	0 row(s) affected
290	18:54:25	/*!40111 SET SQL_NOTES=@OLD_SQL_NOTES */	0 row(s) affected

- Verify the database is ok or not
 - Verify the database log

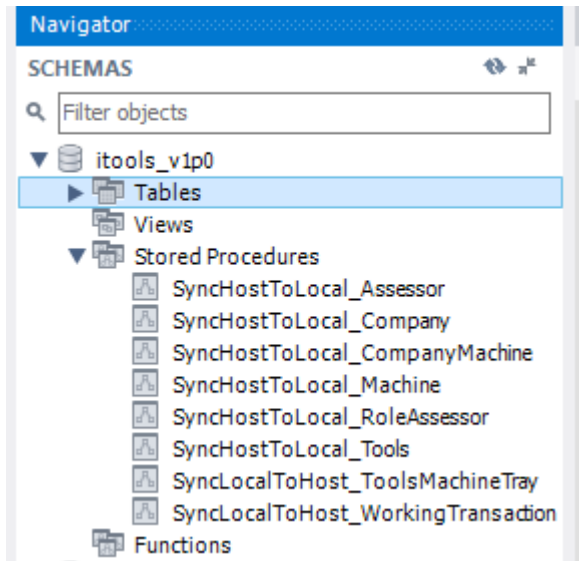


#	Time	Action	Message	Duration / Fetch
280	18:54:25	/*!50003 SET character_set_client = @saved_cs_client */	0 row(s) affected	0.000 sec
281	18:54:25	/*!50003 SET character_set_results = @saved_cs_results */	0 row(s) affected	0.000 sec
282	18:54:25	/*!50003 SET collation_connection = @saved_col_connection */	0 row(s) affected	0.000 sec
283	18:54:25	/*!40103 SET TIME_ZONE=@OLD_TIME_ZONE */	0 row(s) affected	0.000 sec
284	18:54:25	/*!40101 SET SQL_MODE=@OLD_SQL_MODE */	0 row(s) affected, 2 warning(s): 3135 'NO_ZERO_DATE', 'NO_ZERO_IN_DATE' and 'ERROR_FOR_DIVISION_BY_ZERO' sql modes should be...	0.000 sec
285	18:54:25	/*!40014 SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS */	0 row(s) affected	0.000 sec
286	18:54:25	/*!40014 SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS */	0 row(s) affected	0.000 sec
287	18:54:25	/*!40101 SET CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT */	0 row(s) affected	0.000 sec
288	18:54:25	/*!40101 SET CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULTS */	0 row(s) affected	0.000 sec
289	18:54:25	/*!40101 SET COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION */	0 row(s) affected	0.000 sec
290	18:54:25	/*!40111 SET SQL_NOTES=@OLD_SQL_NOTES */	0 row(s) affected	0.000 sec

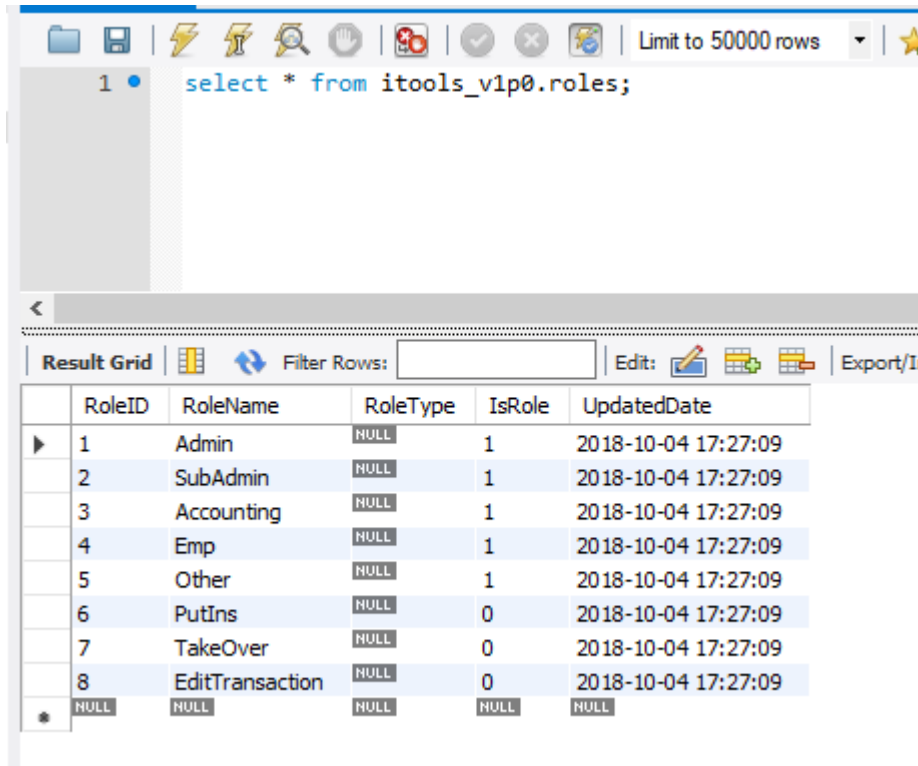
- Verify the tables



- Verify the store procedure



- Verify the basic data: `select * from itools_vlp0.roles;`



- Verify the federated data: `select * from itools_vlp0.federated_assessor;`

SQL File 1* x

Limit to 50000 rows

1 • select * from itools_v1p0.federated_assessor;

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: |

	AssessorID	UserName	FingerID	Password	FirstName	LastName	EmailAddress	Address	Phone	CompanyCode	MachineCode
1		admin	NULL	e10adc3949ba59abbe56e057f20f883e	Trinh	Nguyen Duy	trinh.wft@gmail.com	NULL		Master Company	VM-1;VM-2;VM-3;V
2		acct	NULL	e10adc3949ba59abbe56e057f20f883e	Trinh	Nguyen Duy	production@optiwell.vn	NULL		Master Company	VM-1;VM-2;VM-3;V
3		subadmin	NULL	e10adc3949ba59abbe56e057f20f883e	Duoc	Nguyen Thanh	duoc.nguyenthanh@vinamoiltools.com.vn	NULL		VINAMOILTOOLS	VM-1;VM-2;VM-3;V
4		181102	NULL	e10adc3949ba59abbe56e057f20f883e	Châu	Nguyễn Minh	chau.nguyenthanh@vinamoiltools.com.vn	NULL	0973 771 219	VINAMOILTOOLS	VM-1;VM-4
5		181104	NULL	202cb962ac59075b964b07152d234b70	Danh	Nguyễn Bá	danh.nguyenba@vinamoiltool.com.vn	NULL	0986 992 783	VINAMOILTOOLS	VM-1;VM-4
6		181108	NULL	d5e682d1edd7aa6a89ec9a524c437873	Nguyen	Duoc	duoc.nguyenthanh@vinamoiltools.com.vn	NULL		VINAMOILTOOLS	VM-1;VM-4
7		181105	NULL	e10adc3949ba59abbe56e057f20f883e	Đạt	Nguyễn Đình	dat.nguyendinh@vinamoiltools.com	NULL	0973 799 516	VINAMOILTOOLS	VM-1;VM-4
8		181107	NULL	e10adc3949ba59abbe56e057f20f883e	Dũng	Phan Văn	dung.phanvan@vinamoiltools.com.vn	NULL	0975 263 003	VINAMOILTOOLS	VM-1;VM-4
9		181109	NULL	e10adc3949ba59abbe56e057f20f883e	Hậu	Nguyễn Công	hau.nguyencong@vinamoiltools.com	NULL	0936 570 555	VINAMOILTOOLS	VM-1;VM-4
10		181110	NULL	e10adc3949ba59abbe56e057f20f883e	Hải	Nguyễn Văn	hay.nguyenvan@vinamoiltools.com.vn	NULL	0909 668 362	VINAMOILTOOLS	VM-1;VM-4
11		181111	NULL	e10adc3949ba59abbe56e057f20f883e	Hòa	Nguyễn Ngọc	hoa.nguyengoc@vinamoiltools.com	NULL	0908 528 011	VINAMOILTOOLS	VM-1;VM-4
12		181112	NULL	e10adc3949ba59abbe56e057f20f883e	Lưu	Nguyễn Thành	luu.nguyenthanh@vinamoiltools.com	NULL	0902 976 420	VINAMOILTOOLS	VM-1;VM-4
13		181113	NULL	e10adc3949ba59abbe56e057f20f883e	Nhân	Nguyễn Trọng	nhan.nguyentrong@vinamoiltools.com	NULL	0908 085 413	VINAMOILTOOLS	VM-1;VM-4
14		181114	NULL	e10adc3949ba59abbe56e057f20f883e	Nhật	Lê Hồng	nhut.lehong@vinamoiltools.com.vn	NULL	0974 665 447	VINAMOILTOOLS	VM-1;VM-4
15		181115	NULL	e10adc3949ba59abbe56e057f20f883e	Quan	Võ Duy	quan.voduy@vinamoiltools.com.vn	NULL	0973 747 776	VINAMOILTOOLS	VM-1;VM-4
16		181116	NULL	e10adc3949ba59abbe56e057f20f883e	Tâm	Nguyễn Trần ...	tam.nguyentrangan@vinamoiltools.co...	NULL	0346 592 270	VINAMOILTOOLS	VM-1;VM-4
17		181117	NULL	e10adc3949ba59abbe56e057f20f883e	Thanh	Lê Tất	thanh.letat@vinamoiltools.com.vn	NULL	0982 770 409	VINAMOILTOOLS	VM-1;VM-4
18		181118	NULL	e10adc3949ba59abbe56e057f20f883e	Thiện	Hồ Hữu	thien.hohuu@vinamoiltools.com	NULL	0388 933 386	VINAMOILTOOLS	VM-1;VM-4
19		181120	NULL	e10adc3949ba59abbe56e057f20f883e	Trung	Đỗ Minh	trung.dominh@vinamoiltools.com	NULL	0937 431 661	VINAMOILTOOLS	VM-1;VM-4
20		181121	NULL	e10adc3949ba59abbe56e057f20f883e	Tuấn	Bùi Văn	tuan.buivan@vinamoiltools.com.vn	NULL	0934 757 456	VINAMOILTOOLS	VM-1;VM-4
21		181122	NULL	e10adc3949ba59abbe56e057f20f883e	Tiến	Trần Quang	tran.tranquang@vinamoiltools.com.vn	NULL	0937 933 588	VINAMOILTOOLS	VM-1;VM-4

2.6. Verify iTools

- Open www.tqteam.net/itools
 - Create new company if needed
 - Create new machine if needed
 - Assign machine to company
 - Edit user to assign login permission to machine
- Check the configuration of jar file
 - COMPANY_CODE**
 - ✓ MFC
 - COMPANY_CODE = HEujRkVVDZU1CcJiMNmONQ==
 - ✓ VINAMOILTOOLS
 - COMPANY_CODE = hUTB9SpP67JNtA/h0R2XXw==
 - MACHINE_CODE**
 - ✓ VM-1
 - MACHINE_CODE = SUON6OYqdkwqnGwssvrn2w==
 - ✓ VM-2
 - MACHINE_CODE = A4C0+dIdml+sMfrMgyJW7A==
 - ✓ VM-3
 - MACHINE_CODE = fZk/IXEk1xkKpbEEquyTmg==
 - ✓ VM-4
 - MACHINE_CODE = iidX3Wv3FjeKpQmze3xzSQ==

- ✓ VM-5
 - _ MACHINE_CODE = 2jnB+XZQ78pai0Dp9xgV7A==
- ✓ VM-6
 - _ MACHINE_CODE = 9K1OYnAESRs2iZyoUTt2Mg==
- ✓ VM-7
 - _ MACHINE_CODE = HGhryVlEXhq1bQk7DTm7BQ==
- ✓ VM-8
 - _ MACHINE_CODE = nSvUrKDqAY9molU+xo8VA==

- Run the iTools and check the log file from log folder

```

2019-05-29 19:09:51 INFO LoginPage:547 - *****
2019-05-29 19:09:51 INFO LoginPage:548 - *****
2019-05-29 19:09:51 INFO LoginPage:549 - *****
2019-05-29 19:09:51 INFO LoginPage:550 - *****
2019-05-29 19:09:51 INFO LoginPage:551 - Starting iTool app
2019-05-29 19:09:51 INFO LoginPage:552 - companyCode: MFC
2019-05-29 19:09:51 INFO LoginPage:553 - companyCodeUH: Optiwell
2019-05-29 19:09:51 INFO LoginPage:554 - machineCode: VM-6
2019-05-29 19:10:02 INFO LoginPage:557 - mDbHost: localhost
2019-05-29 19:10:02 INFO LoginPage:558 - mDbUser: admin
2019-05-29 19:10:02 INFO LoginPage:559 - mDbPwds: lqa
2019-05-29 19:10:02 INFO LoginPage:560 - mDbName: iTools_vlp0
2019-05-29 19:10:02 INFO LoginPage:561 - mDbPort: 3306
2019-05-29 19:10:02 INFO LoginPage:562 - Database version: vlp0 - 2018-08-11 13:02:35
2019-05-29 19:10:02 INFO LoginPage:564 - Last Sync: 2019-05-26 11:23:41
2019-05-29 19:10:02 INFO LoginPage:568 - connectToHost: OK
2019-05-29 19:10:19 INFO EmailUtils:57 - mail.tgteam.net2sitool_app@tgteam.netlqazxsw2!A
2019-05-29 19:10:25 INFO LoginPage:593 - checkEmailConfig: true
2019-05-29 19:10:26 INFO LoginPage:378 - =====
2019-05-29 19:10:26 INFO LoginPage:379 - Start syncing thread - CFS3BI6Q
2019-05-29 19:10:26 INFO LoginPage:380 - =====
2019-05-29 19:10:26 INFO SyncController:64 - Start SyncHostToLocal
2019-05-29 19:10:26 INFO SyncController:72 - SyncHostToLocal_Assessor: insertAssessor: 82
2019-05-29 19:10:26 INFO SyncController:80 - SyncHostToLocal_RoleAssessor: insertRoleAssessor: 35
2019-05-29 19:10:26 INFO SyncController:88 - SyncHostToLocal_Machine: insertMachine: 5
2019-05-29 19:10:26 INFO SyncController:96 - SyncHostToLocal_Company: insertCompany: 4
2019-05-29 19:10:26 INFO SyncController:104 - SyncHostToLocal_CompanyMachine: insertCompanyMachine: 5
2019-05-29 19:10:26 INFO SyncController:112 - SyncHostToLocal_Tools: insertTools: 249
2019-05-29 19:10:26 INFO SyncController:116 - End SyncHostToLocal: 0s
2019-05-29 19:10:26 INFO SyncController:120 - Start SyncLocalToHost
2019-05-29 19:10:26 INFO SyncController:130 - SyncLocalToHost_ToolsMachineTray: insertToolsMachineTray: 65
2019-05-29 19:10:26 INFO SyncController:138 - SyncLocalToHost_WorkingTransaction: insertWorkingTransaction: 0
2019-05-29 19:10:26 INFO SyncController:141 - End SyncLocalToHost: 0s
2019-05-29 19:10:26 INFO LoginPage:383 - =====
2019-05-29 19:10:26 INFO LoginPage:384 - End syncing thread - CFS3BI6Q
2019-05-29 19:10:26 INFO LoginPage:385 - =====

```

- Test the database again with below tables
 - Assessors
 - Company
 - Machine
 - RoleAssessor
 - ...
- Test other features

2.7. How to build iTools for new PC

- Copy the current tool to new name with naming convention as below

```
<MACHINE_CODE> <COMPANY_CODE> iTool_vlp2.jar
```

- For example:

VM-1_VINAMOILTOOLS__iTool_v1p2.jar

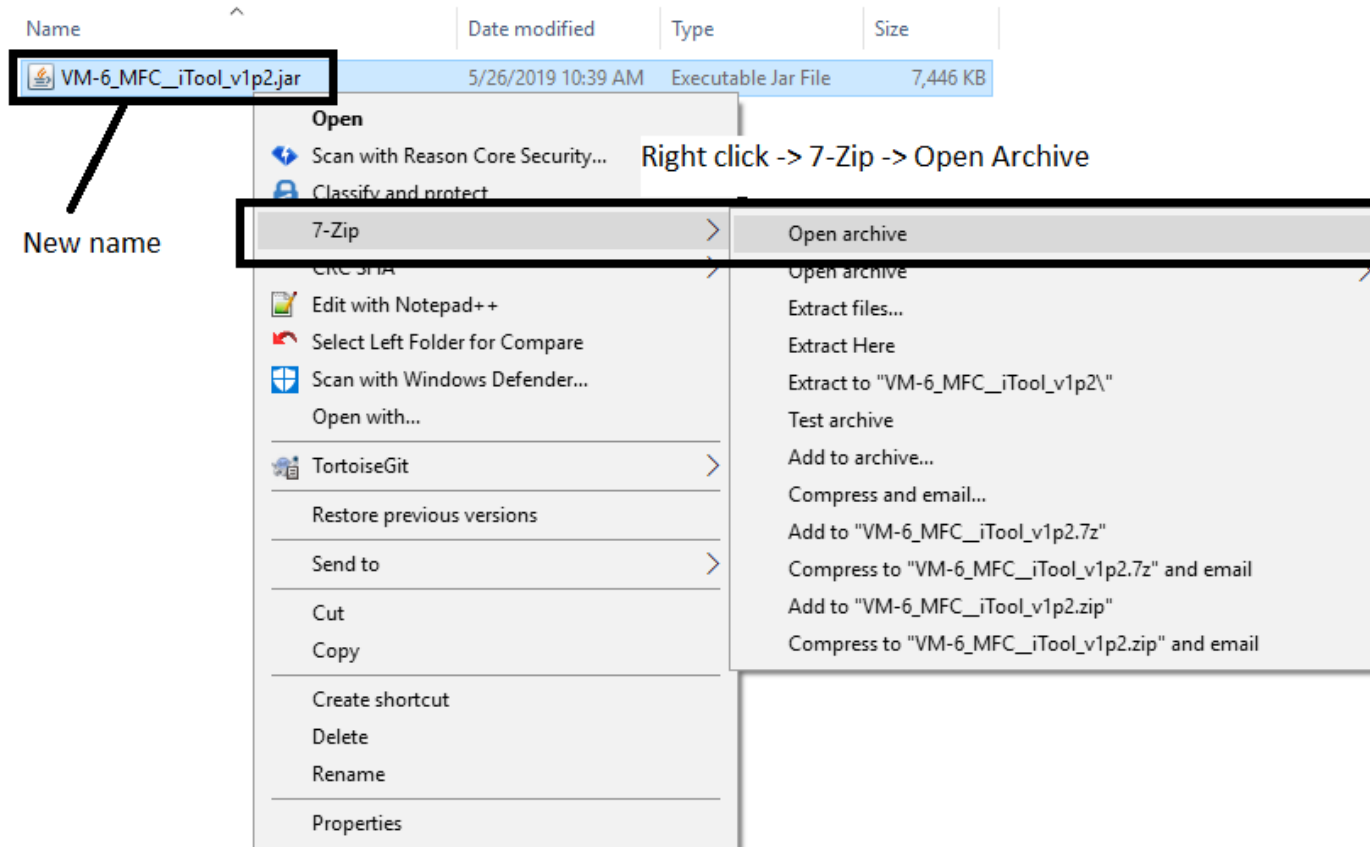
VM-2_MFC__iTool_v1p2.jar

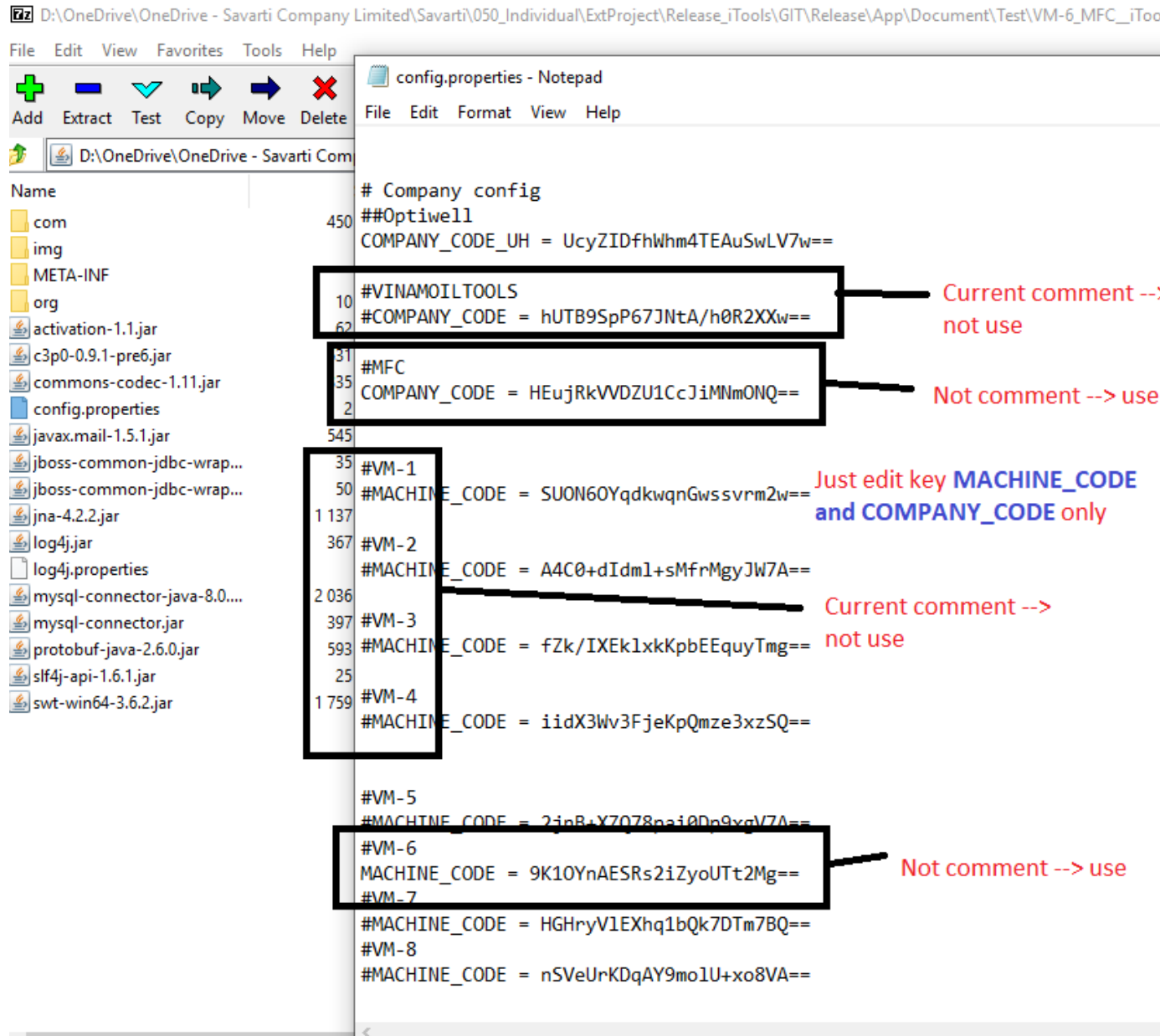
VM-3_MFC__iTool_v1p2.jar

VM-4_VINAMOILTOOLS__iTool_v1p2.jar

VM-5_MFC__iTool_v1p2.jar

- Edit file `config.properties` inside the jar





3. Troubleshoot

TBD