iTools

Deployment Guide

Last updated by: *Quan Nguyen*

Effective date: May 14, 2019

Version: *1.0*

Document Control

Version	Change description	Changed by	Date	Approved by	Date
0.1	Initiate and draft	Quan Nguyen	May 14, 2019		
1.0	Modify and finalize the document	Quan Nguyen	May 24, 2019	Quan Nguyen	May 24, 2019

Table of Contents

Index of Tables

No table of figures entries found.

Index of Figure

No table of figures entries found.

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/1lEzXBppFtIE5FTJrVOuUWWg6JOc4x3zt?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
vcredist_x86.exe	5/7/2019 10:56 PM	Application	6,352 KB

2.1. Installation checklist

#	Category	Task	Note	VM-1 VINAMOIL TOOLS	VM-2 MFC	VM-3 MFC	VM-4 VINAMOIL TOOLS	VM-5 MFC	VM-6 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		vcredist_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

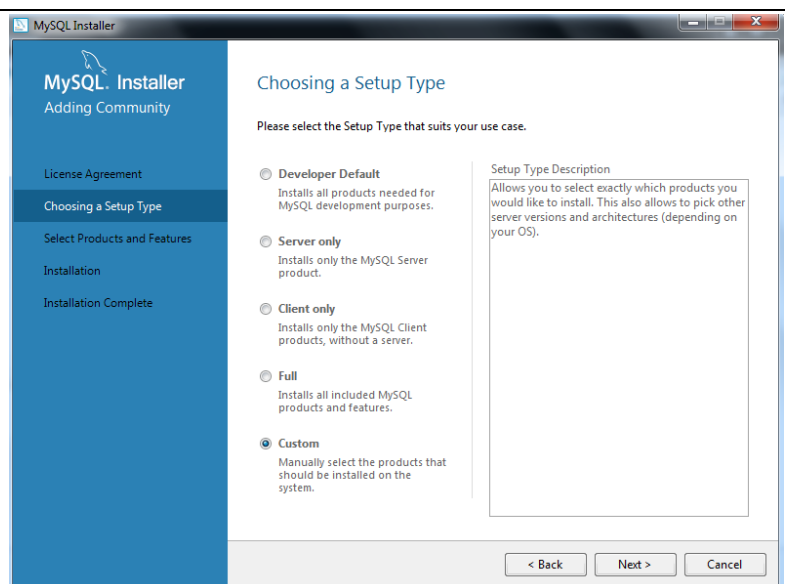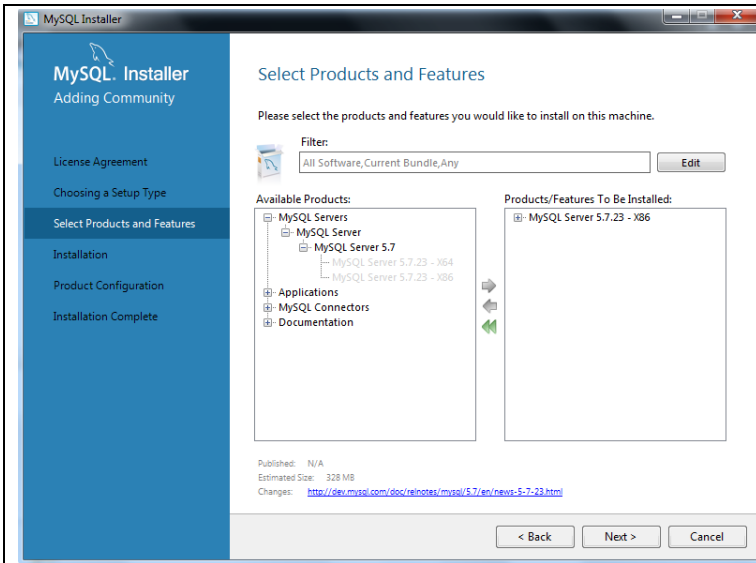## 2.4. MySQL

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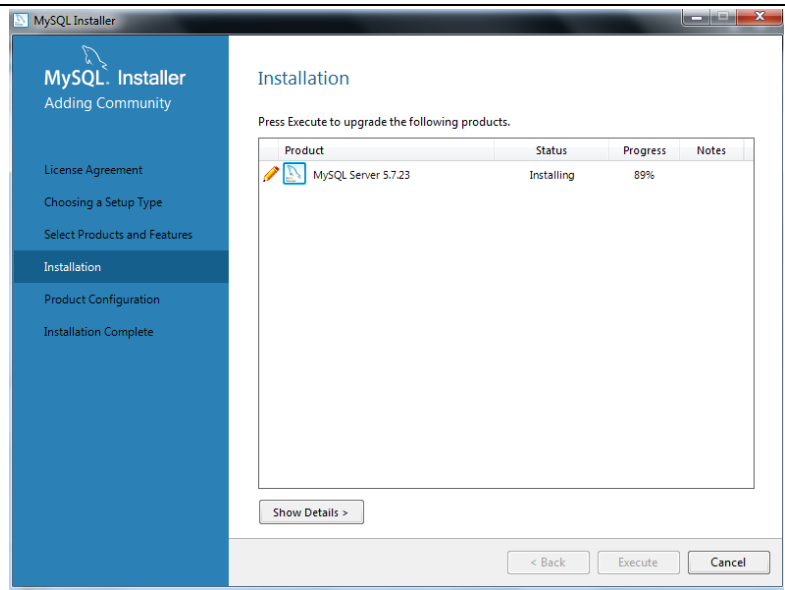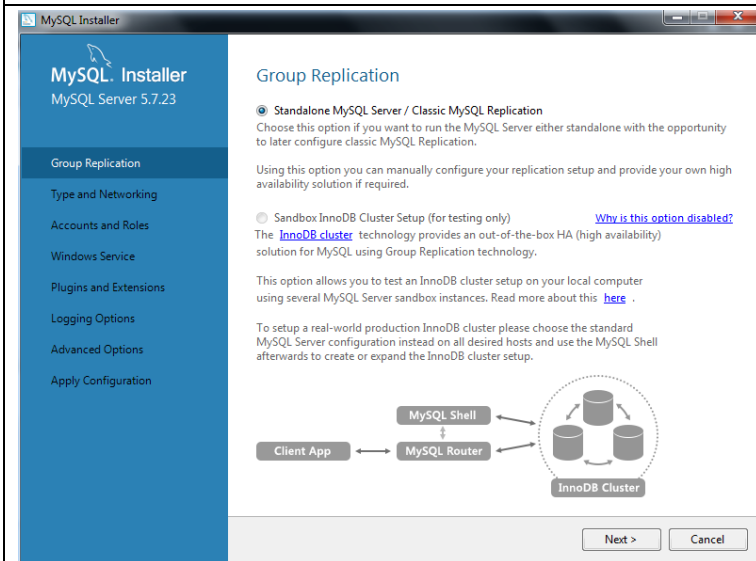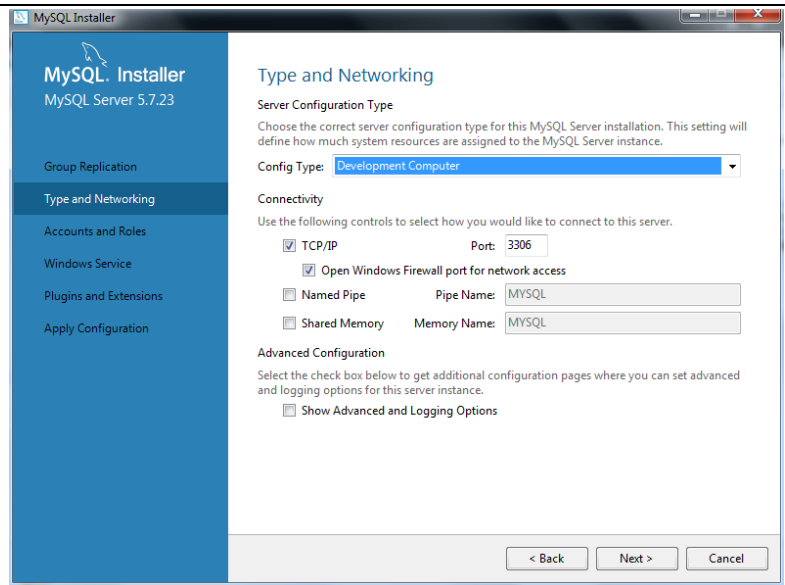
- Install mysqlserver
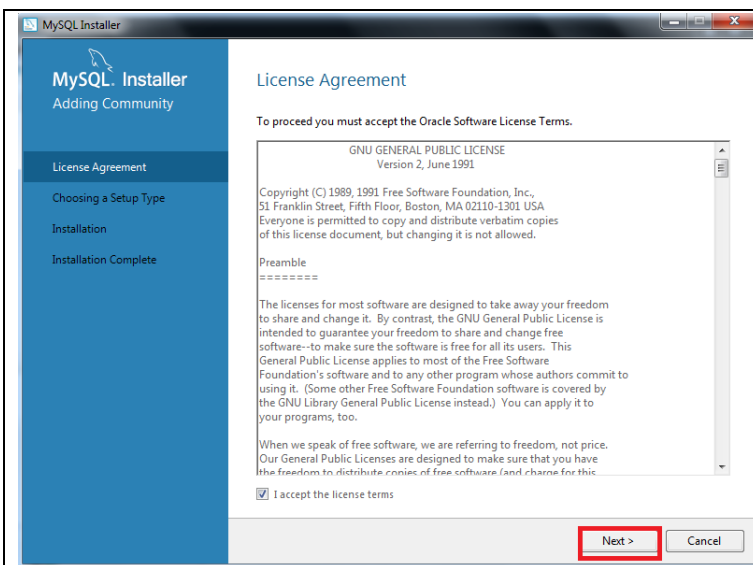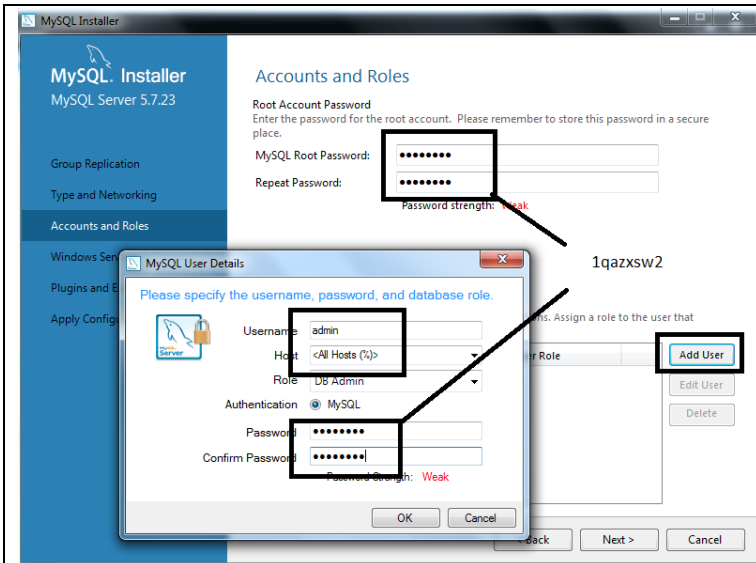

mysql-installer-community-5.7.23.0

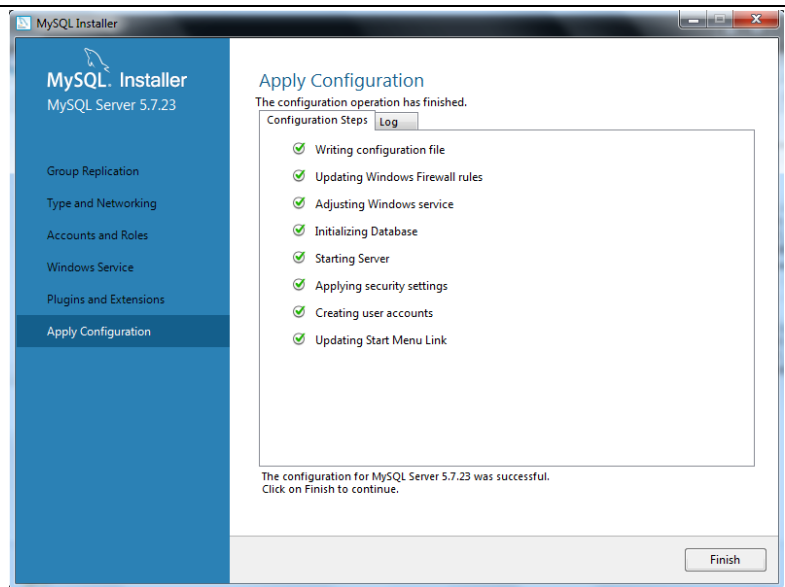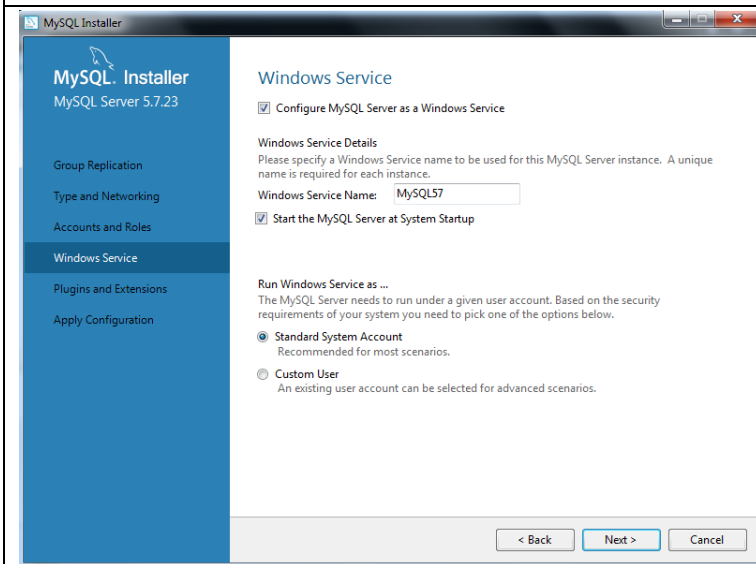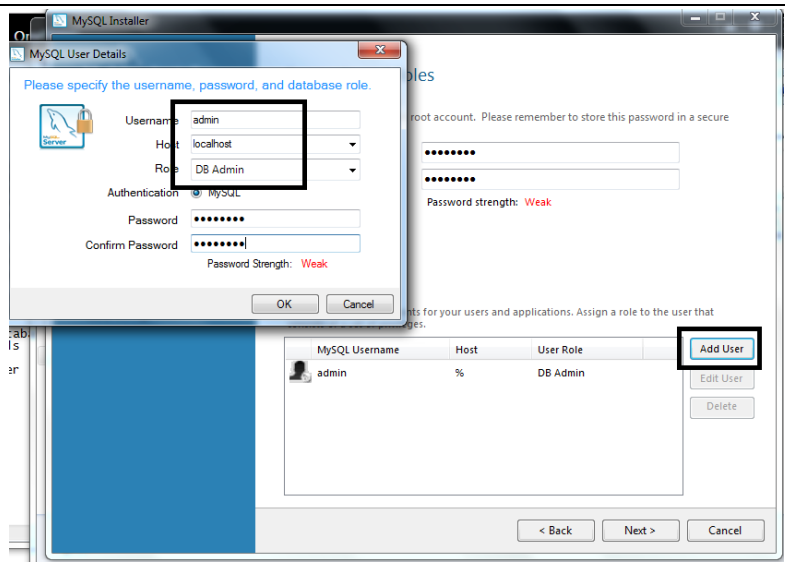Just add MySQL server 5.6.23 only

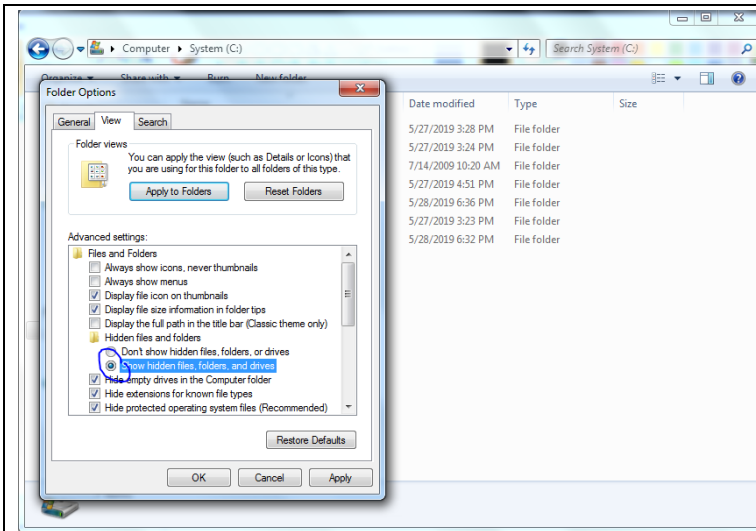Install successfully

Configure for MySQL server

We will have 3 account: root, admin@% and admin@localhost

All account will have the same password 1qazxsw2
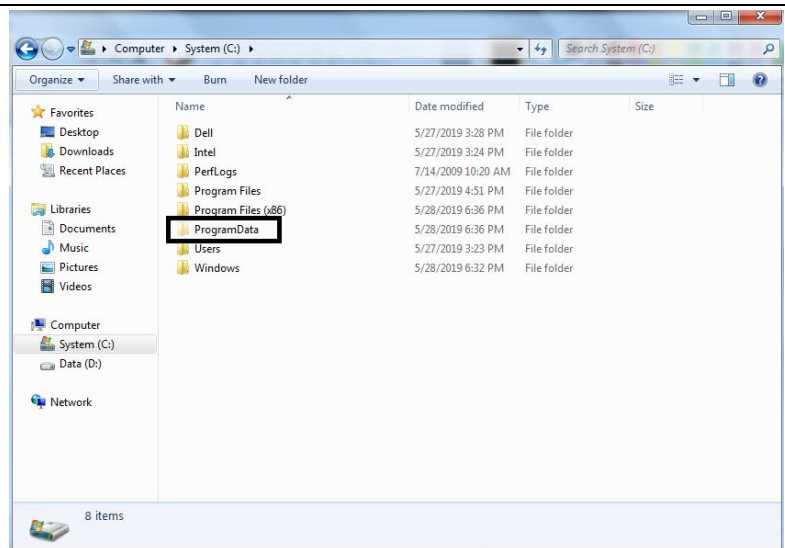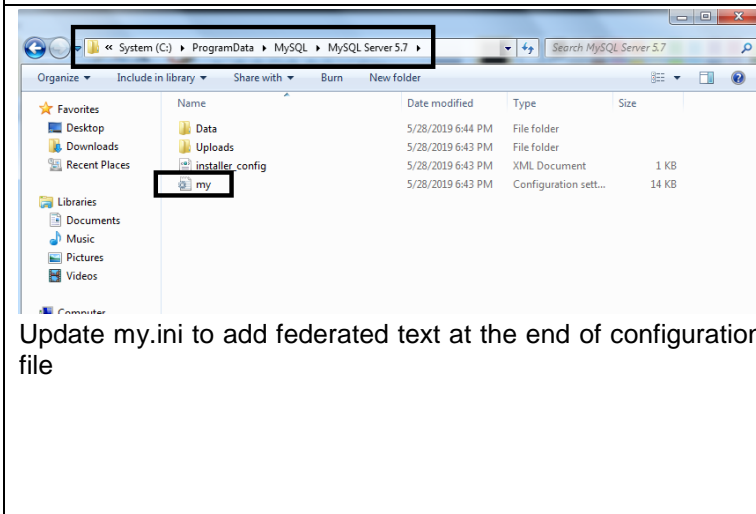

Start MySQL Server successfully

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

Find the MySQL5.7 service to restart and apply the new federated configuration

- Install Workbench: Run mysql-workbench-community-6.3.8-win32 and follow the wizard

2.5.   Create database

- Open Workbench and create new connection
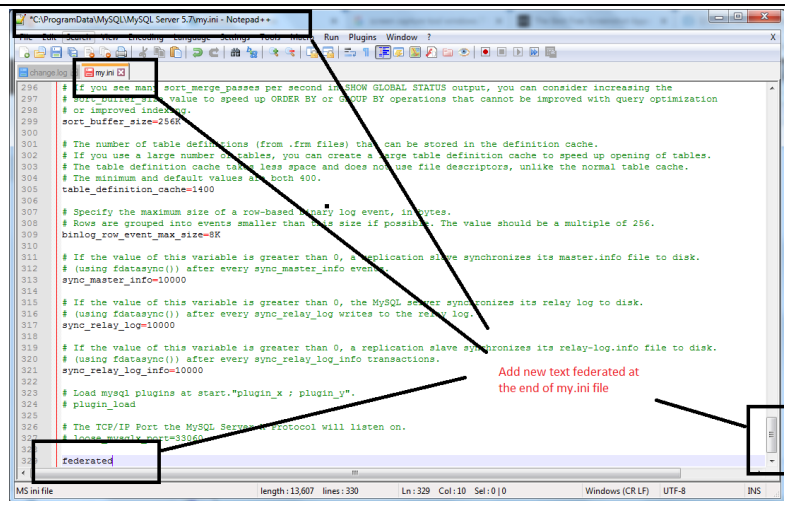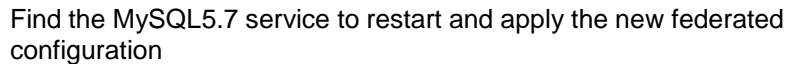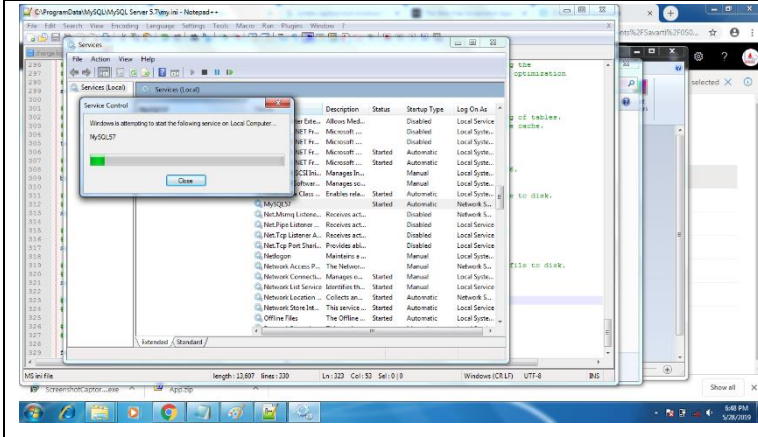
  - Create new connection if not existed – **DO NOT SAVE THE**

11

PASSWORD TO KEEP THE SECURITY

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

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

  - Verify the tables

SCHEMAS

Filter objects

▼ itools_v1p0
  ▼ Tables
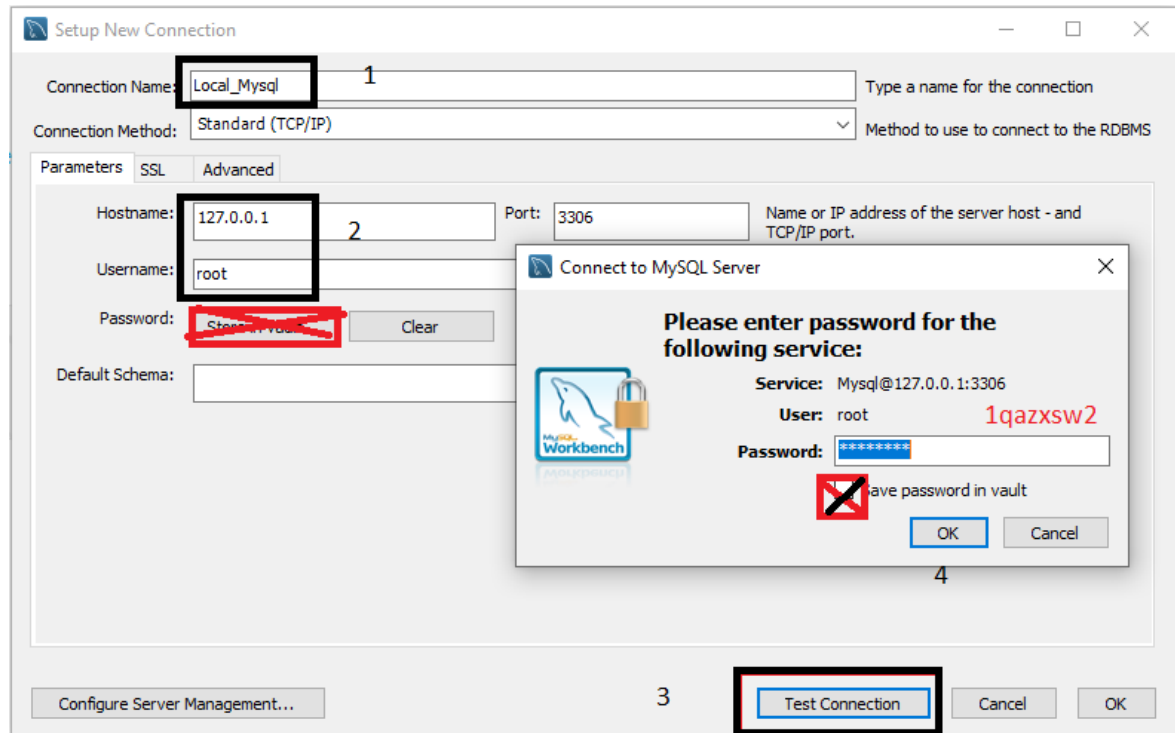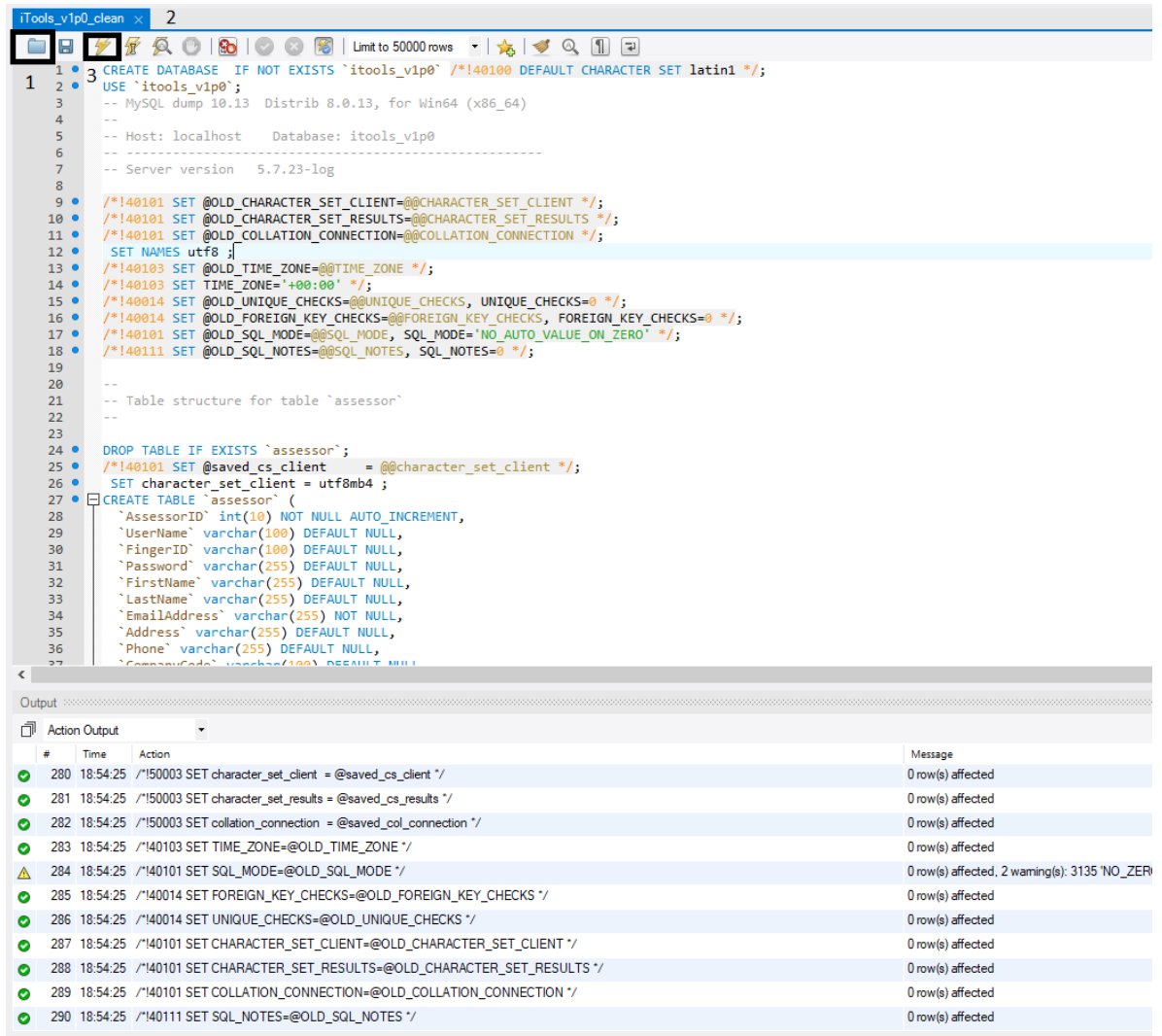   ▶ assessor
    ▶ company
    ▶ companymachine
    ▶ databaseversion
    ▶ federated_assessor
    ▶ federated_company
    ▶ federated_companymachine
    ▶ federated_databaseversion
    ▶ federated_machine
    ▶ federated_masterlog
    ▶ federated_pendingaction
    ▶ federated_roleassessor
    ▶ federated_roles
    ▶ federated_synchistory
    ▶ federated_tools
    ▶ federated_toolsmachine
    ▶ federated_toolsmachinetray
    ▶ federated_workingtransaction
    ▶ machine
    ▶ masterlog
    ▶ pendingaction
    ▶ roleassessor
    ▶ roles
    ▶ synchistory
    ▶ tools
    ▶ toolsmachine
    ▶ toolsmachinetray
    ▶ workingtransaction
  Views
  ▶ Stored Procedures
  Functions

- Verify the store procedure
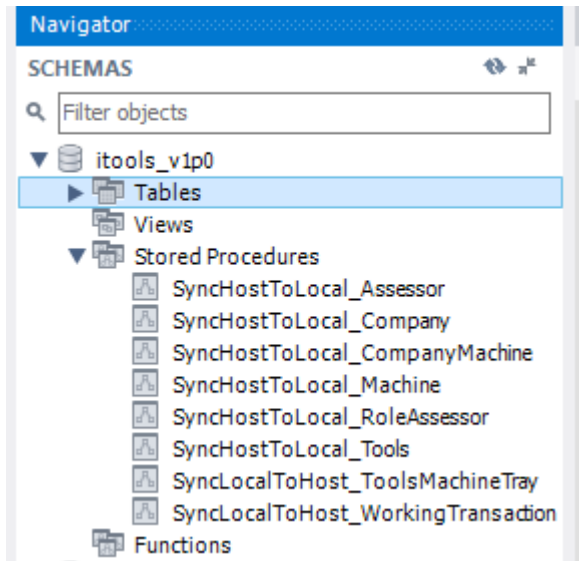
- Verify the basic data: `select * from itools_v1p0.roles;`

RoleID	RoleName	RoleType	IsRole	UpdatedDate
1	Admin	NULL	1	2018-10-04 17:27:09
2	SubAdmin	NULL	1	2018-10-04 17:27:09
3	Accounting	NULL	1	2018-10-04 17:27:09
4	Emp	NULL	1	2018-10-04 17:27:09
5	Other	NULL	1	2018-10-04 17:27:09
6	PutIns	NULL	0	2018-10-04 17:27:09
7	TakeOver	NULL	0	2018-10-04 17:27:09
8	EditTransaction	NULL	0	2018-10-04 17:27:09
NULL	NULL	NULL	NULL	NULL
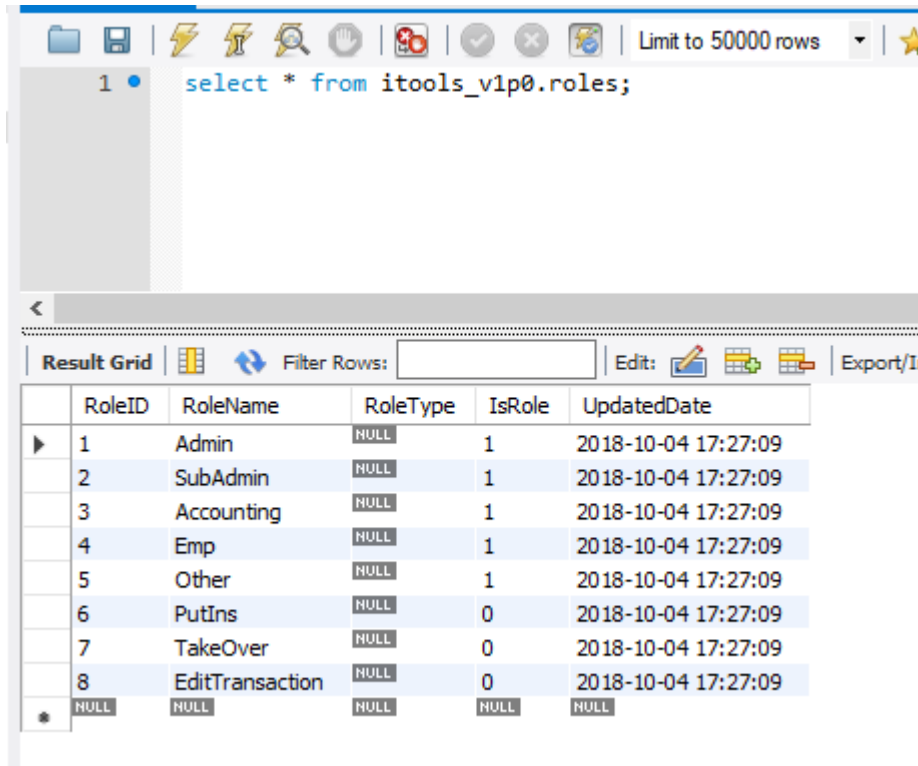
- Verify the federated data: `select * from itools_v1p0.federated_assessor;`

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 = SUON6OYqdkwqnGwssvrm2w==
    - ✓ VM-2
      - – MACHINE_CODE = A4C0+dIdml+sMfrMgyJW7A==
    - ✓ VM-3
      - – MACHINE_CODE = fZk/IXEklxkKpbEEquyTmg==
    - ✓ 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 = nSVeUrKDqAY9molU+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: 1qa
2019-05-29 19:10:02 INFO  LoginPage:560 - mDbName: iTools_v1p0
2019-05-29 19:10:02 INFO  LoginPage:561 - mDbPort: 3306
2019-05-29 19:10:02 INFO  LoginPage:562 - Database version: v1p0 - 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.net25itool_app@tgteam.net1qazxsw2!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_v1p2.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
```
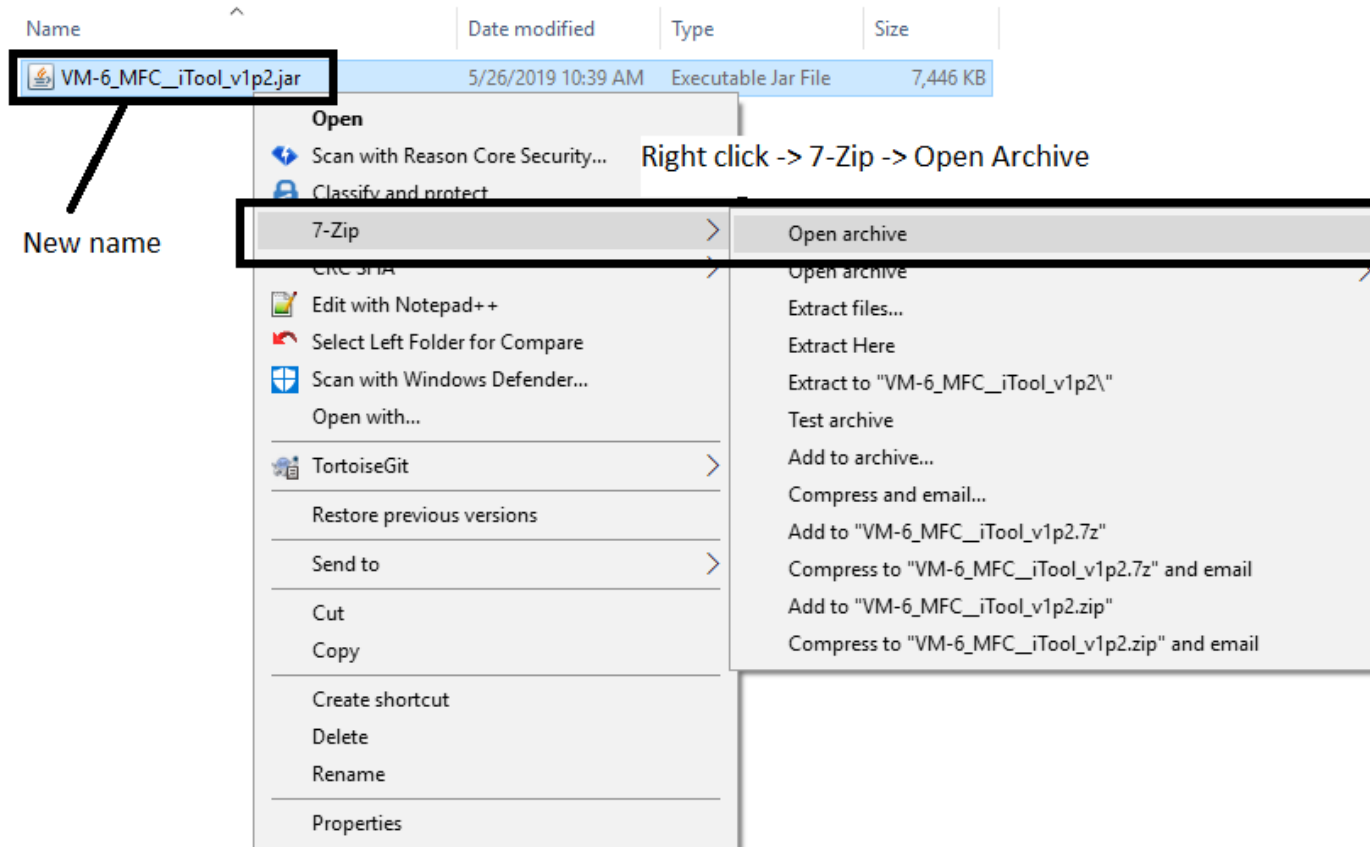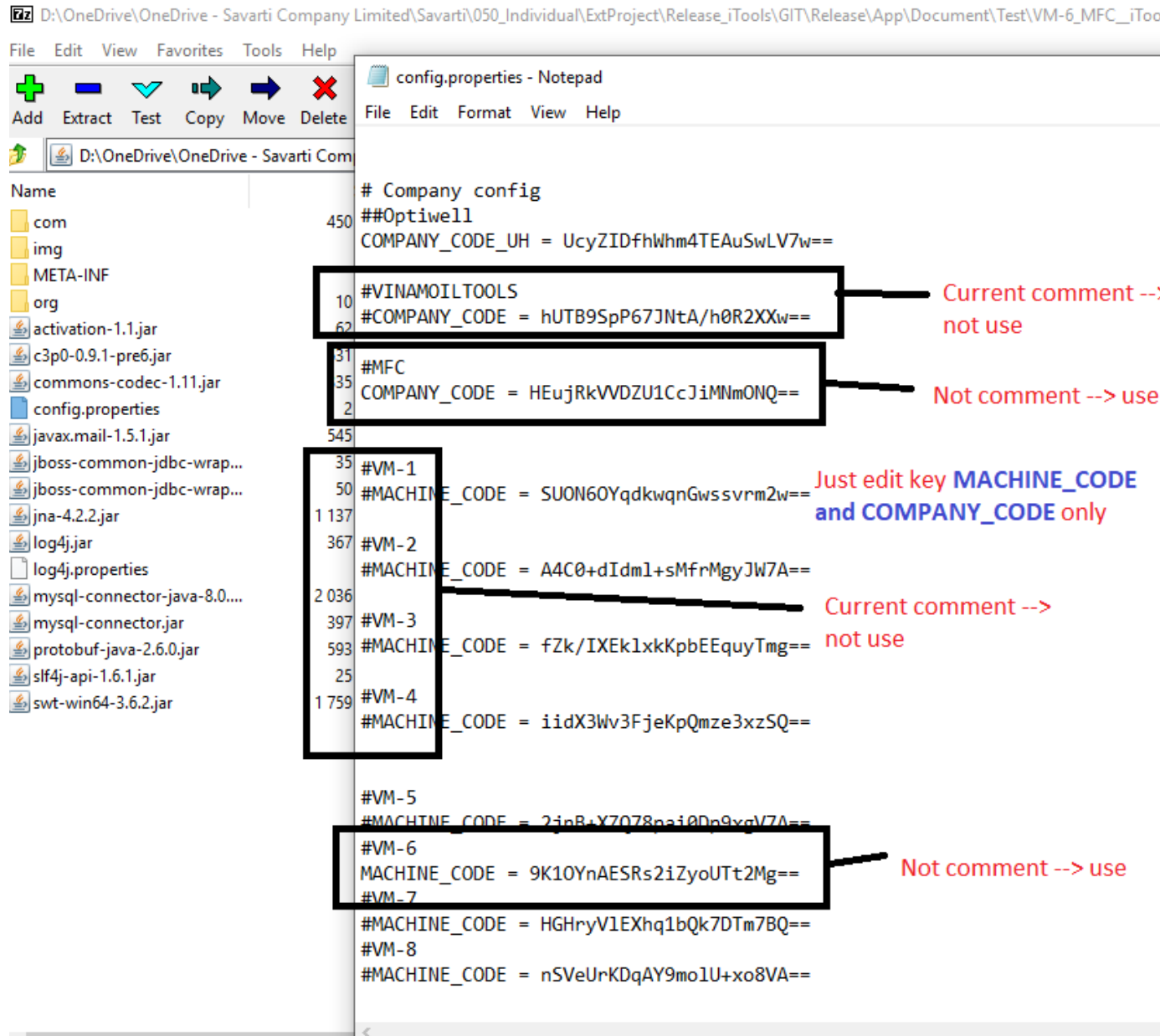
- Edit file `config.properties` inside the jar

3.   Troubleshoot

TBD