

Oracle 12c Installation Experience

Peter Ping Liu

June 7, 2017

Import Tips Learned from This Experience:

1. Extract the 2nd zip file into the same folder as the 1st zip file folder: For example, C:\Users\167583\Downloads\oracle12c\winx64_12102_database_1of2
2. Select "Windows Built-in User" for Oracle Home access.
3. Uncheck "Create as Container Database"

Those are the lessons I learned. Hopefully, you will save some time of trials if you pay attention to them.

My Procedure:

1. Check your operating system to make sure it is 64bit system:

System Information

File Edit View Help

System Summary

- Hardware Resources
- Components
- Software Environment

Item	Value
OS Name	Microsoft Windows 10 Enterprise
Version	10.0.15063 Build 15063
Other OS Description	Not Available
OS Manufacturer	Microsoft Corporation
System Name	167583EIU
System Manufacturer	Dell Inc.
System Model	OptiPlex 7010
System Type	x64-based PC
System SKU	OptiPlex 7010
Processor	Intel(R) Core(TM) i7-3770 CPU @ 3.40GHz, 3401 Mhz, 4 Core(s), 8 Logical Pro...
BIOS Version/Date	Dell Inc. A20, 1/26/2015
SMBIOS Version	2.7
Embedded Controller Version	255.255
BIOS Mode	Legacy
BaseBoard Manufacturer	Dell Inc.
BaseBoard Model	Not Available
BaseBoard Name	Base Board
Platform Role	Desktop
Secure Boot State	Unsupported
PCR7 Configuration	Binding Not Possible
Windows Directory	C:\windows
System Directory	C:\windows\system32
Boot Device	\Device\HarddiskVolume1
Locale	United States
Hardware Abstraction Layer	Version = "10.0.15063.0"
User Name	EIU\167583
Time Zone	Central Daylight Time
Installed Physical Memory (RAM)	8.00 GB
Total Physical Memory	7.96 GB
Available Physical Memory	5.75 GB
Total Virtual Memory	9.21 GB
Available Virtual Memory	6.75 GB
Page File Space	1.25 GB
Page File	C:\pagefile.sys
Device Guard Virtualization bas...	Not enabled
Device Encryption Support	Reasons for failed automatic device encryption: PCR7 binding is not supporte...
Hyper-V - VM Monitor Mode E...	Yes
Hyper-V - Second Level Address...	Yes
Hyper-V - Virtualization Enable...	Yes
Hyper-V - Data Execution Prote...	Yes

Find what: Find Close Find

Search selected category only Search category names only

Type here to search

11:39 AM 6/7/2017

- Download Oracle 12c from Oracle web site at: <https://www.oracle.com/database/get-started.html>



Download Oracle Database 12c

Move into action with database innovation

The latest version comes complete with Oracle Multitenant—a multitenant architecture designed for the cloud—as well as Oracle Database In-Memory.

[Download](#)

- Contact
- Chat
- Try It
- Social
- Sign Up

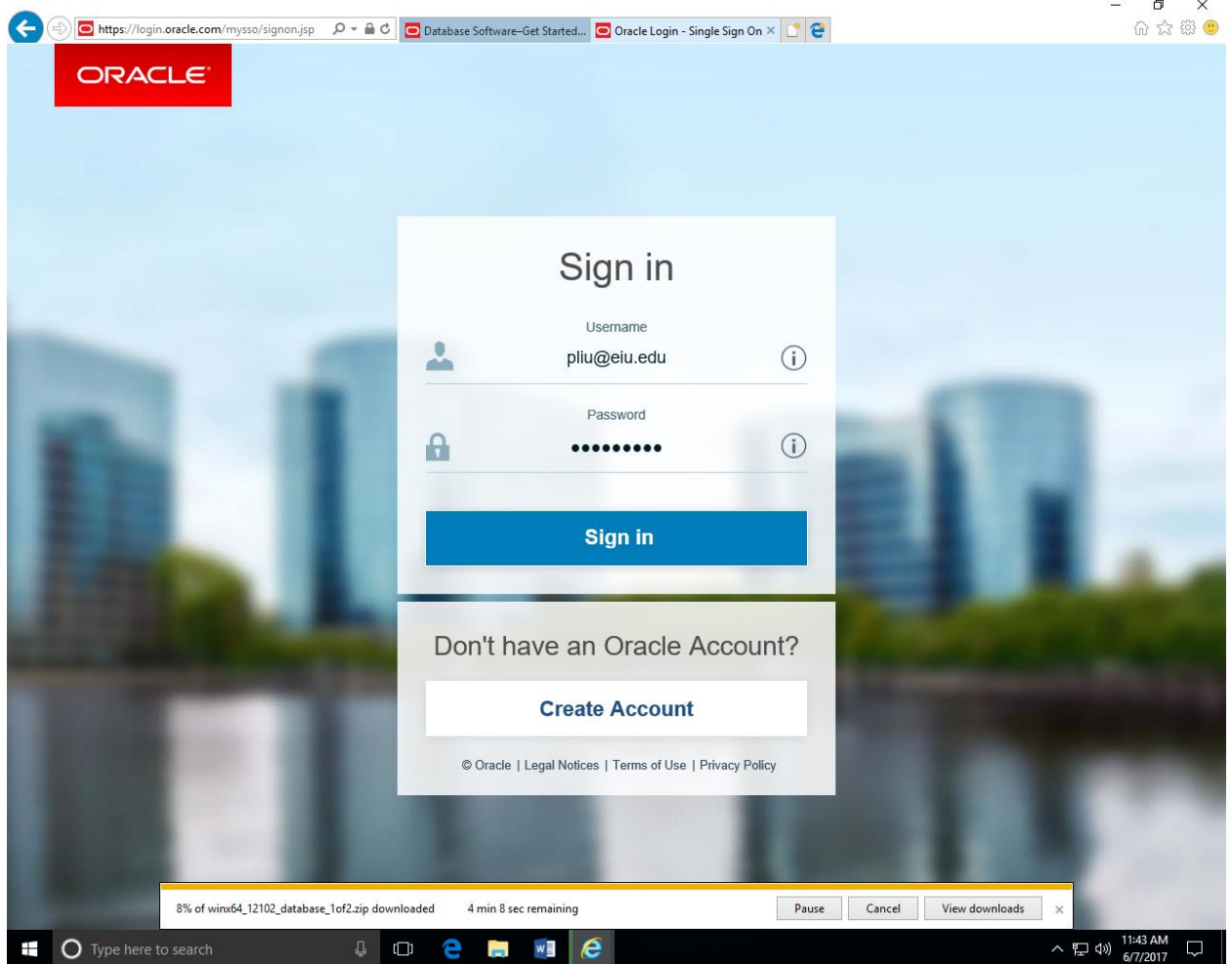
3. Find the Oracle 12c version suitable for your computer.

The screenshot shows the Oracle Database 12c Downloads page. The page title is "Oracle Database 12c Release 1 (12.1.0.2.0) Enterprise Edition". The main content area is titled "Oracle Database 12c Release 1 (12.1.0.2.0) Enterprise Edition" and contains the following information:

- Thank you for accepting the OTN License Agreement; you may now download this software.
- Oracle Database 12c Release 1 (12.1.0.2.0) for Microsoft Windows (x64)**
 - [winx64_12102_database_1of2.zip](#) (1,500,194,397 bytes)
 - [winx64_12102_database_2of2.zip](#) (1,183,299,689 bytes)
- Directions**
 - All files are in the .zip format. There is an unzip utility [here](#) if you need one.
 - Download and unzip both files to the same directory.
 - Installation guides and general Oracle Database 12c documentation are [here](#).
- Note:**The base Oracle Database 12.1.0.2 Server and Client are certified on Microsoft Windows 10. Consult the [release notes](#) for more information. If you encounter an INS-30131 error during installation on Windows 10, use [this workaround](#) to resolve the issue.
- Oracle Database Grid Infrastructure (12.1.0.2.0) for Microsoft Windows (x64)**
 - [winx64_12102_grid_1of2.zip](#) (1,150,883,628 bytes)
 - [winx64_12102_grid_2of2.zip](#) (571,746,998 bytes)
- Contains the Grid Infrastructure Software including Oracle Clusterware, Automated Storage Management (ASM), and ASM Cluster File System. Download and install prior to installing Oracle Real Application Clusters, Oracle Real Application Clusters One Node, or other application software in a Grid Environment
- Oracle Database Global Service Manager (GSM/GDS) (12.1.0.2.0) for Microsoft Windows (x64)**
 - [winx64_12102_gsm.zip](#) (575,502,704 bytes)
- Contains the Global Service Manager Software. Download and install as part of Global Data Services (GDS) deployment.
- Oracle Database Gateways (12.1.0.2.0) for Microsoft Windows (x64)**
 - [winx64_12102_gateways.zip](#) (630,591,172 bytes)
- Contains the Oracle Database Gateways to non-Oracle Databases. Download if you want to set up a heterogeneous data integration environment
- Oracle Database Examples (12.1.0.2.0) for Microsoft Windows (x64)**
 - [winx64_12102_examples.zip](#) (576,214,828 bytes)
- Contains examples of how to use the Oracle Database. Download if you are new to Oracle

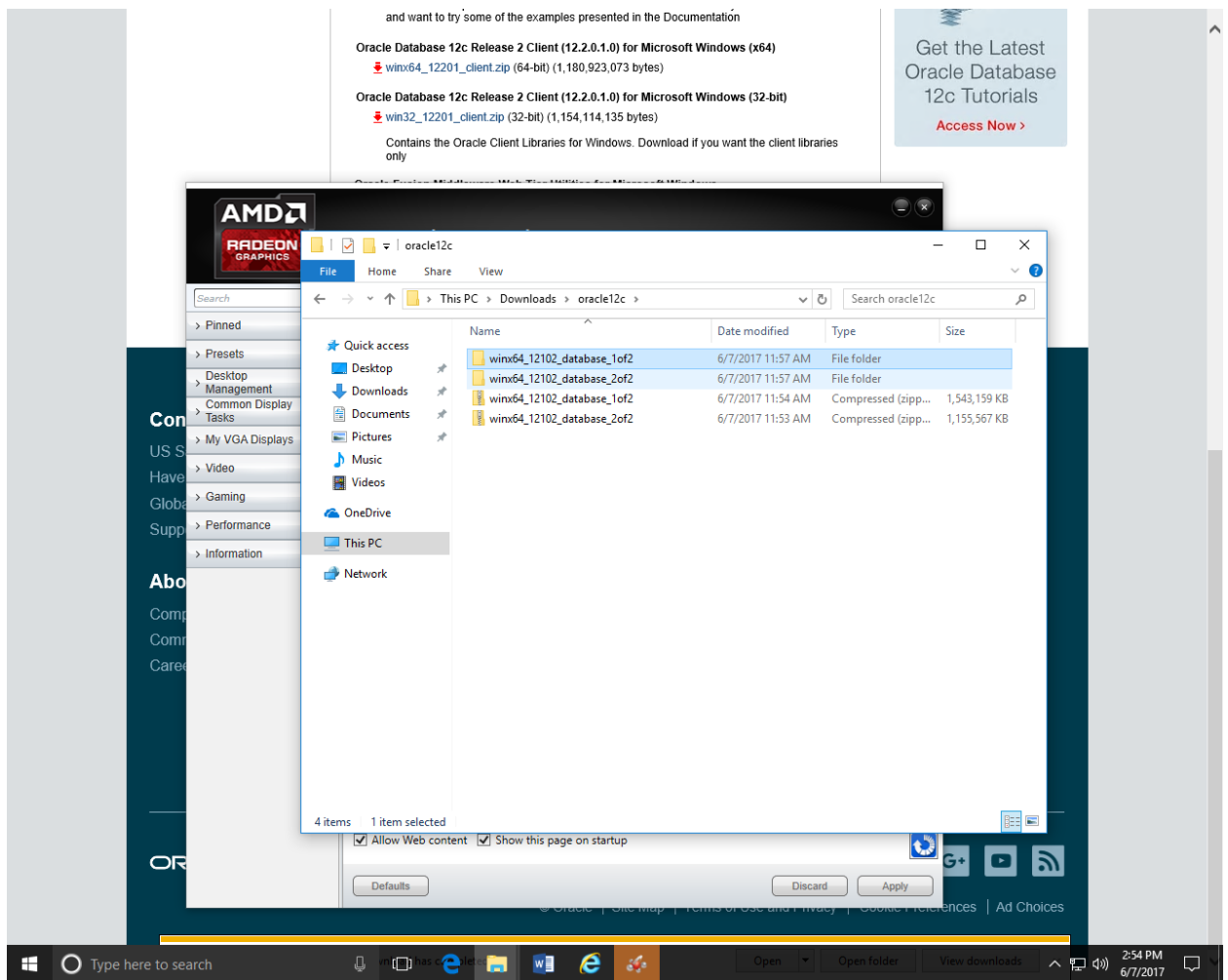
The page also features a sidebar with navigation links for Database 12c, Database In-Memory, Multitenant, More Key Features, Application Development, Big Data Appliance, Cloud Database Services, Private Database Cloud, Data Warehousing & Big Data, Database Appliance, Exadata Database Machine, High Availability, Manageability, Migrations, Security, Unstructured Data, Upgrades, Windows, and Database Technology Index. The right sidebar contains promotional banners for "Critical Capabilities for Operational Database Management Systems", "ODTUG Kscope17", "Oracle Live SQL", and "Get the Latest Oracle Database 12c Tutorials". The bottom of the screenshot shows the Windows taskbar with the search bar and system tray.

4. You may need to create an Oracle account if you have never downloaded any software from Oracle before.

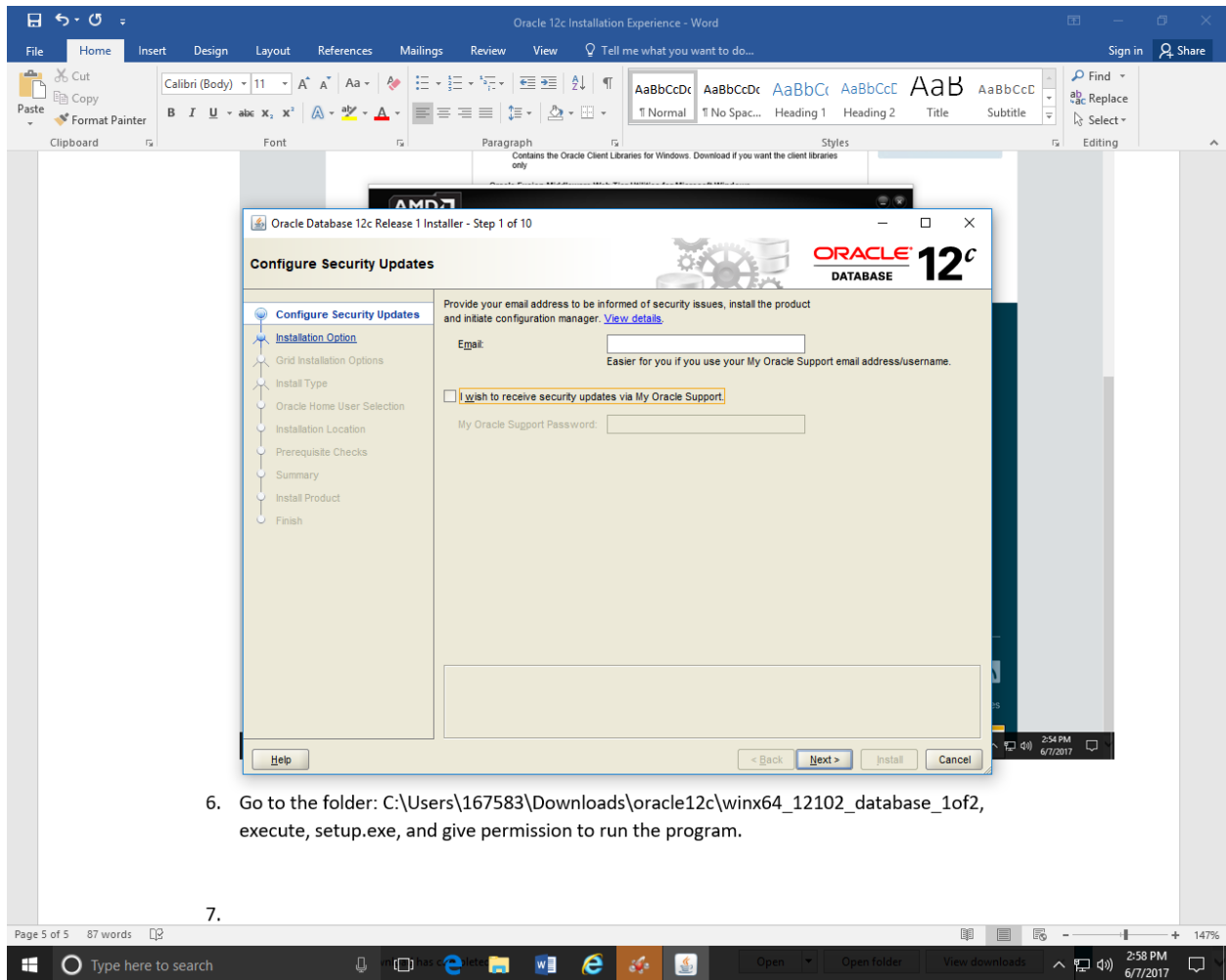


4. In my case, I had to download two (2) zip files. **Extract the 2nd zip file into the same folder as the 1st zip file folder**, for my example, C:\Users\167583\Downloads\oracle12c\winx64_12102_database_1of2. You may choose your own unzip folder.

This is super important. Otherwise, you will see many “File not found” type of error messages.



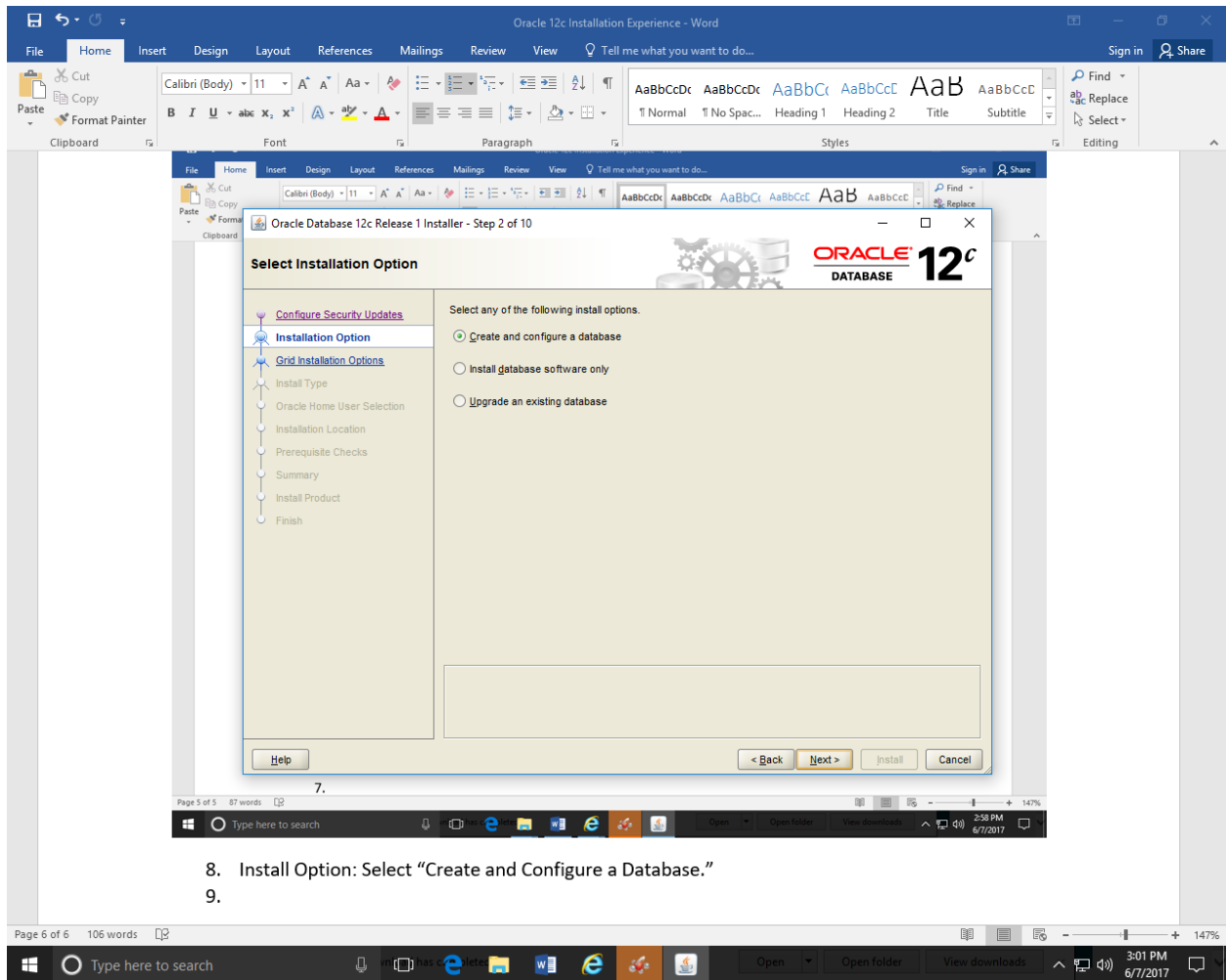
5. Go to the folder: C:\Users\167583\Downloads\oracle12c\winx64_12102_database_1of2, execute "setup.exe", and give permission to run the program.
6. Configure Security Update (You can select whatever you like).



6. Go to the folder: C:\Users\167583\Downloads\oracle12c\winx64_12102_database_1of2, execute, setup.exe, and give permission to run the program.

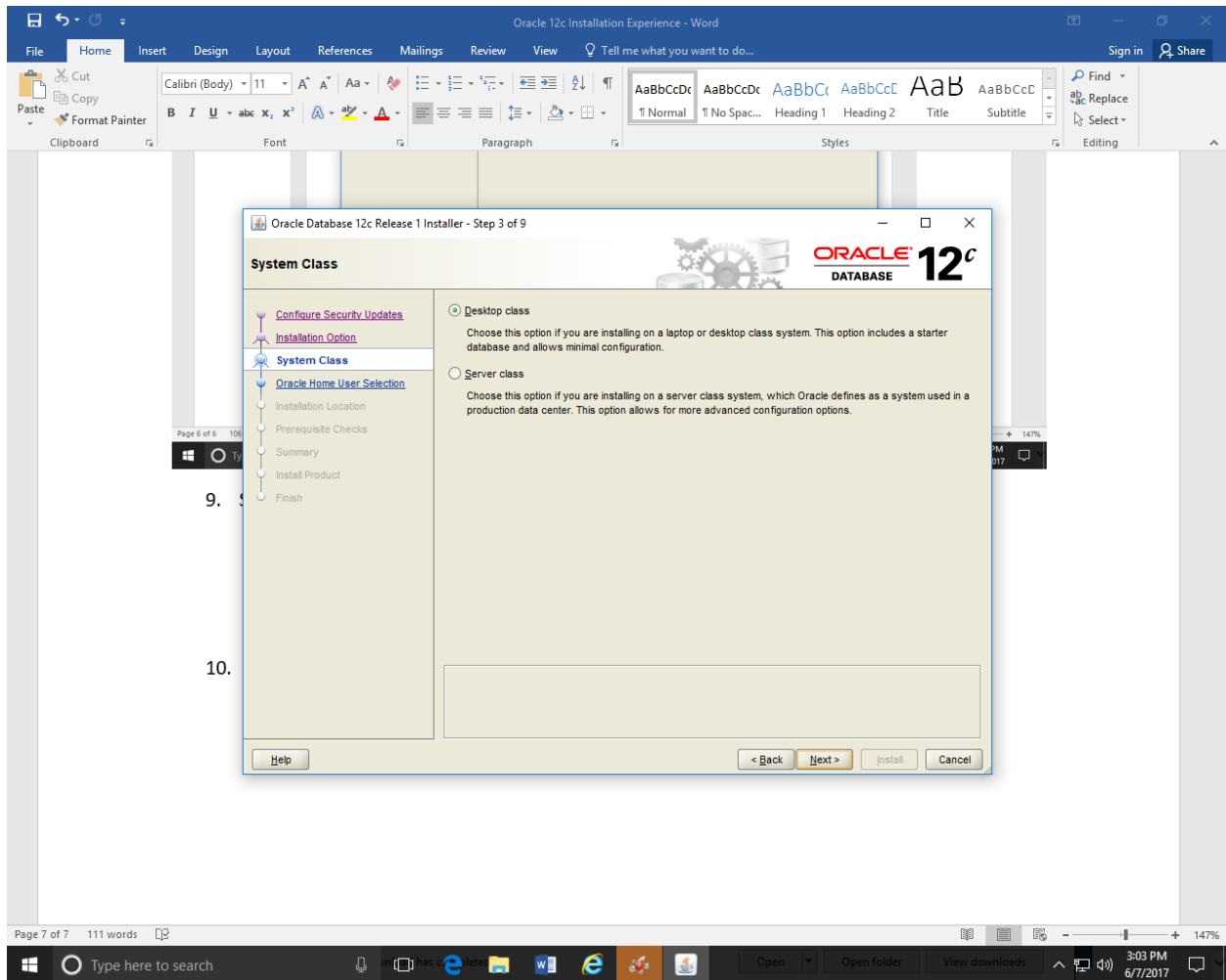
7.

7. Install Option: Select "Create and Configure a Database."

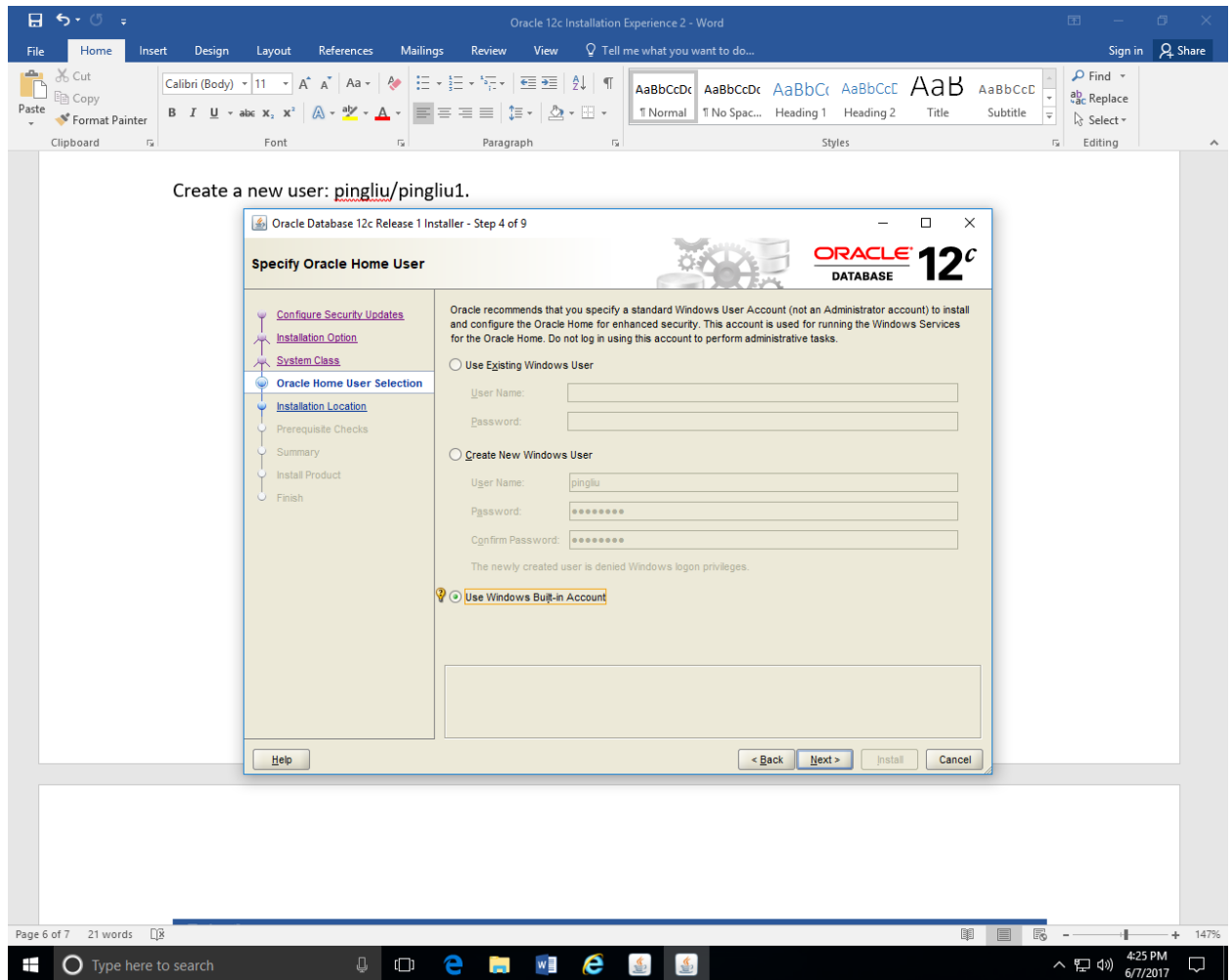


8. Install Option: Select "Create and Configure a Database."
- 9.

8. System Class: Desktop Class.



9. Use "Windows Built-in Account". Click "Next."

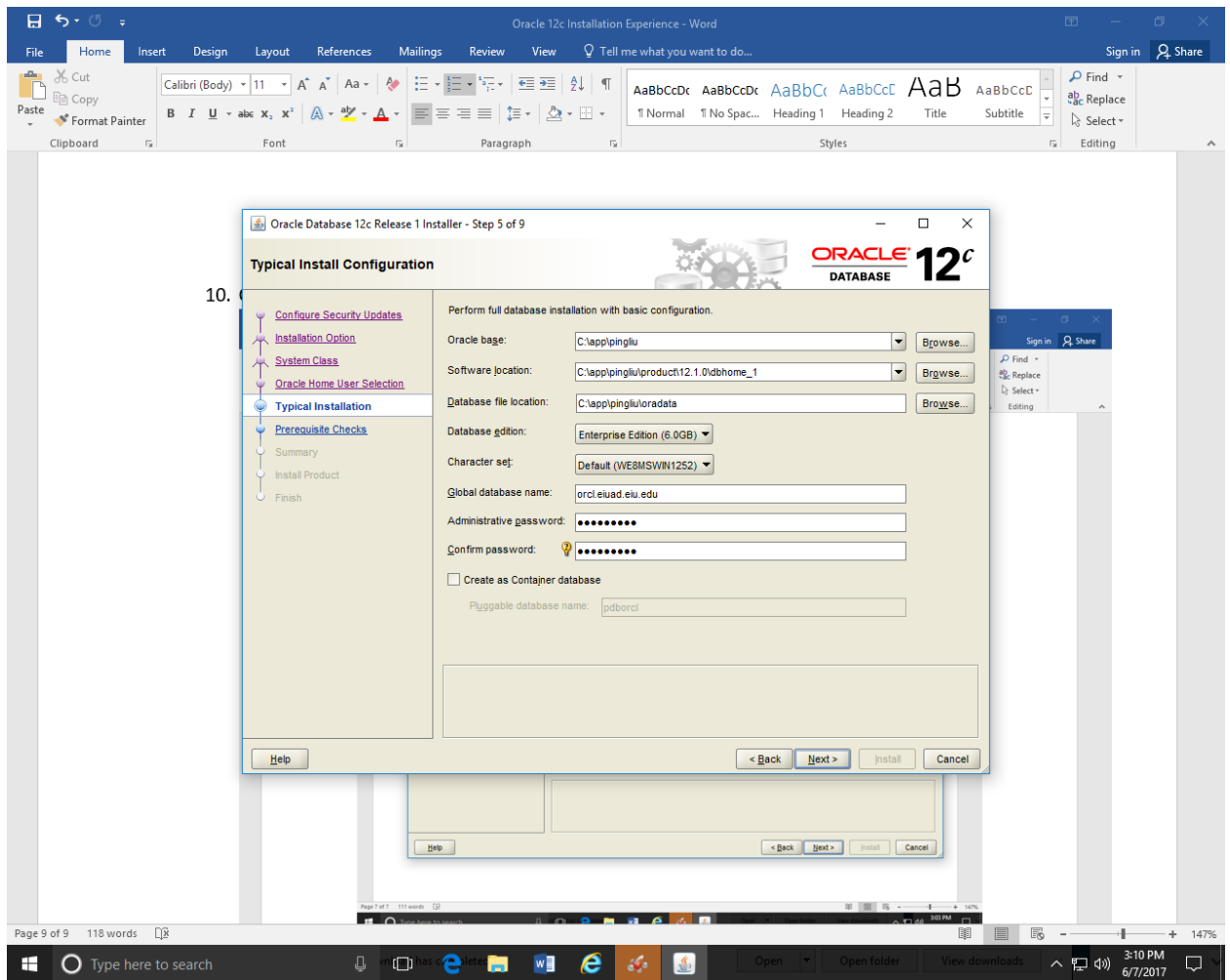


10. Enter your administrative password, and confirm your password. Make a note about your password (For my own record, I used “Password1” as my password in this installation.

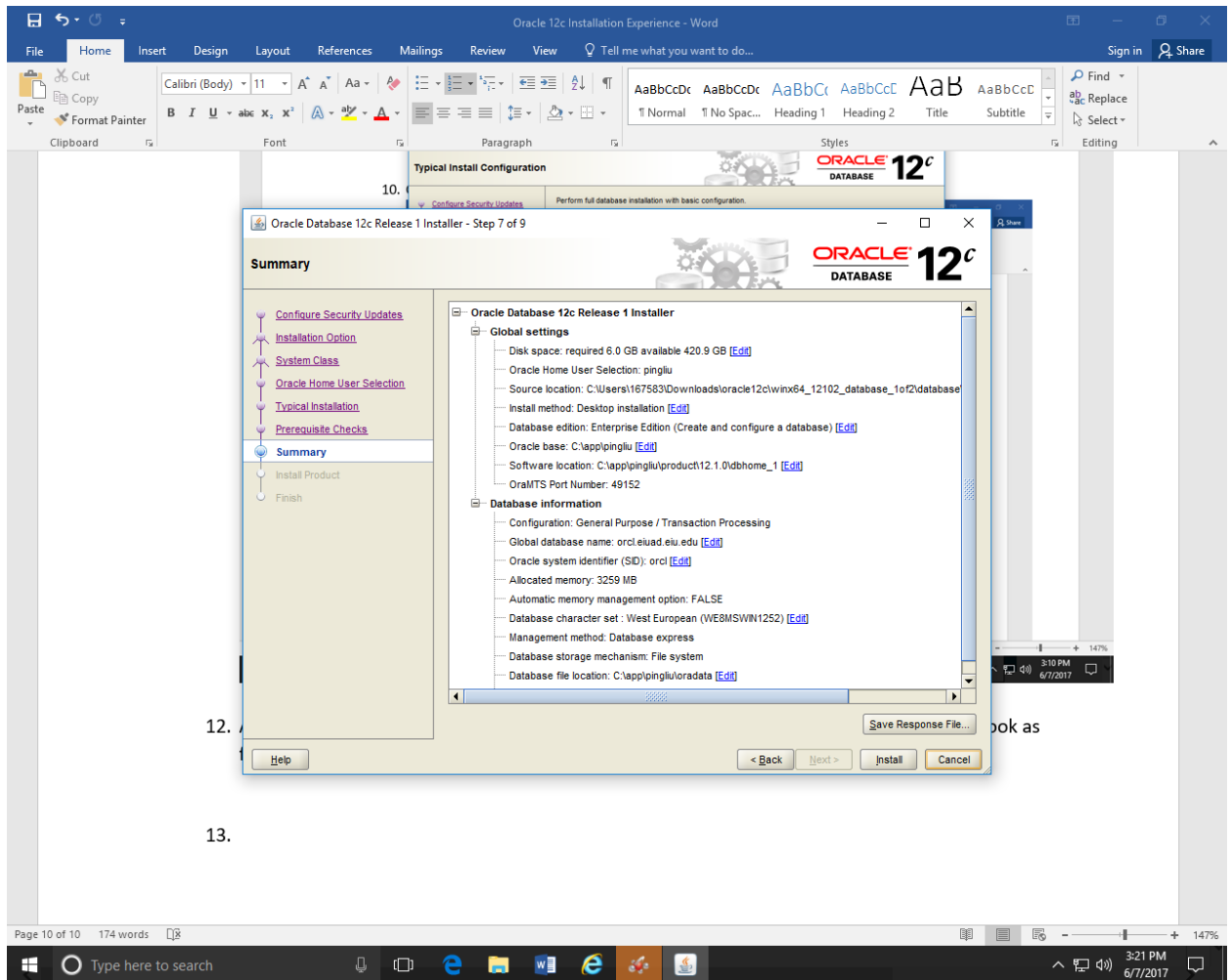
Please make a note on this password. This is the password for database user SYS and SYSTEM. Otherwise, you will not be able to proceed with many functions with the Oracle database.

Please also make sure to uncheck “Create as Container Database”.

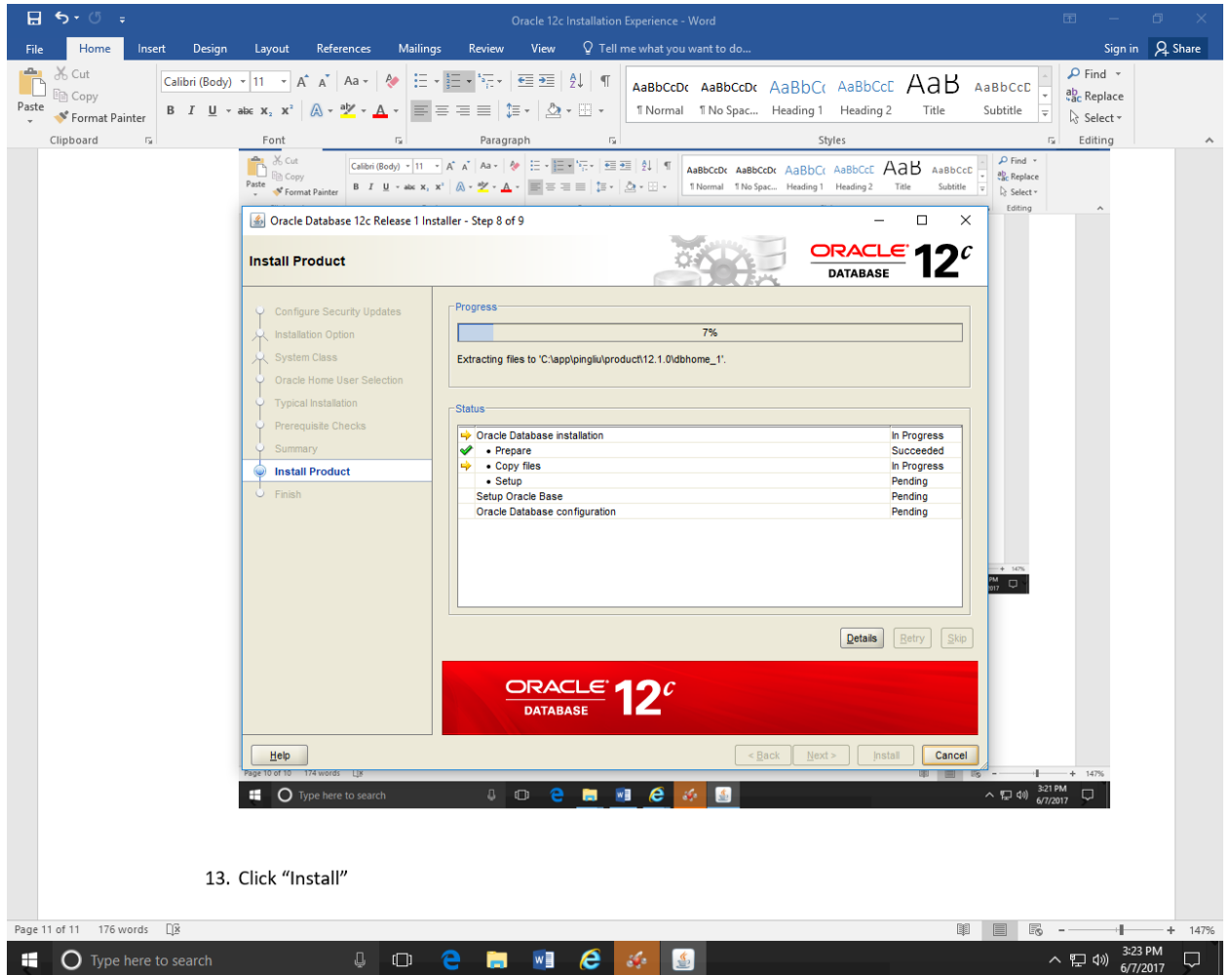
This is important as well. Otherwise, you will see many more headache when creating user in your Project VI and Final Project. Students in Summer 2016 found solutions for the problem. But, it will be easier for you if you uncheck this “Create as Container Database” so that you do not have to worry about it.



11. After the “Next” is clicked, the system will perform “Prerequisite Checks.” The result will look as follows.

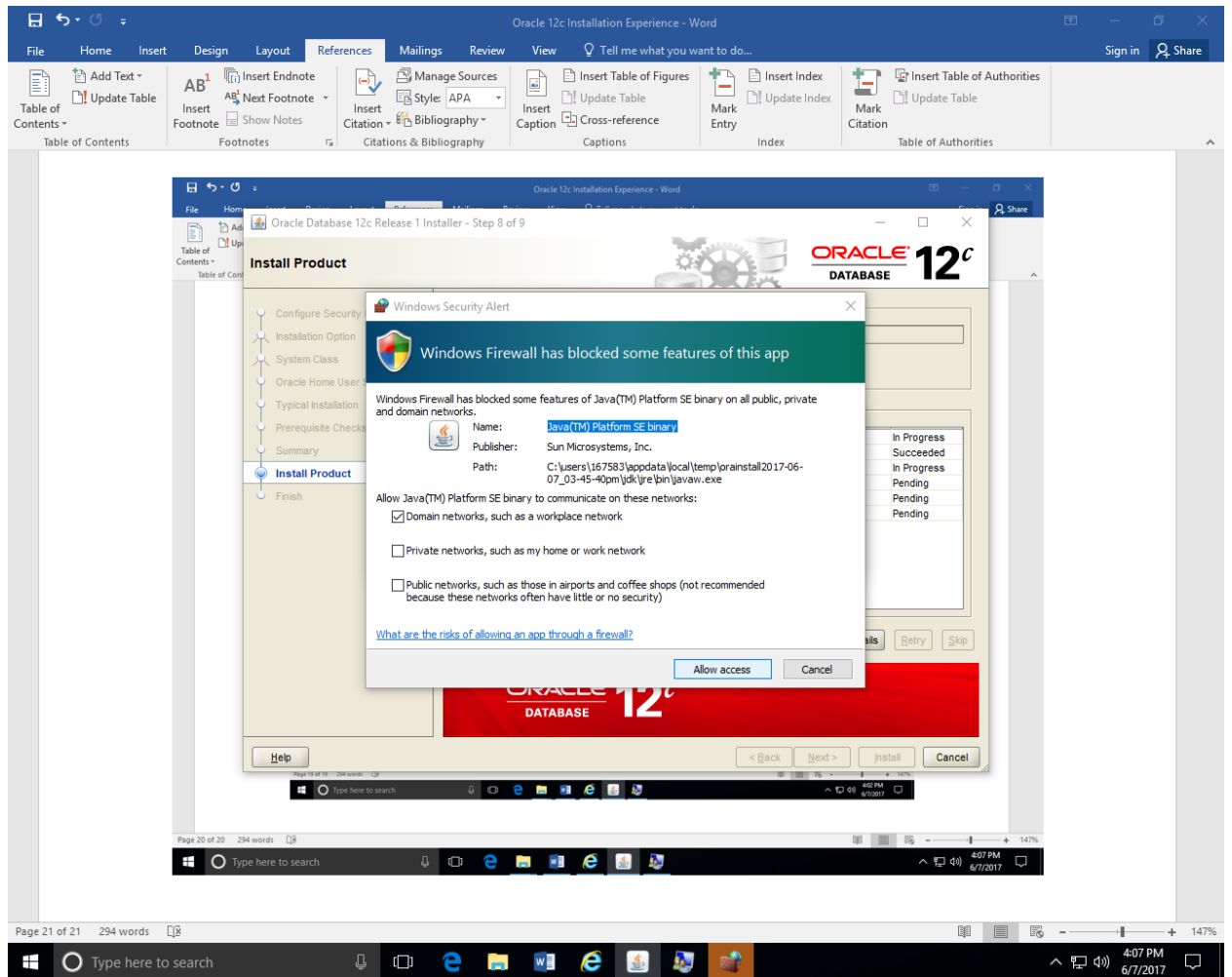


12. Click “Install,” you will see something like the following figure. You may watch the steps by clicking “details.” But, those details may not mean a whole lot if you are new to Oracle database.



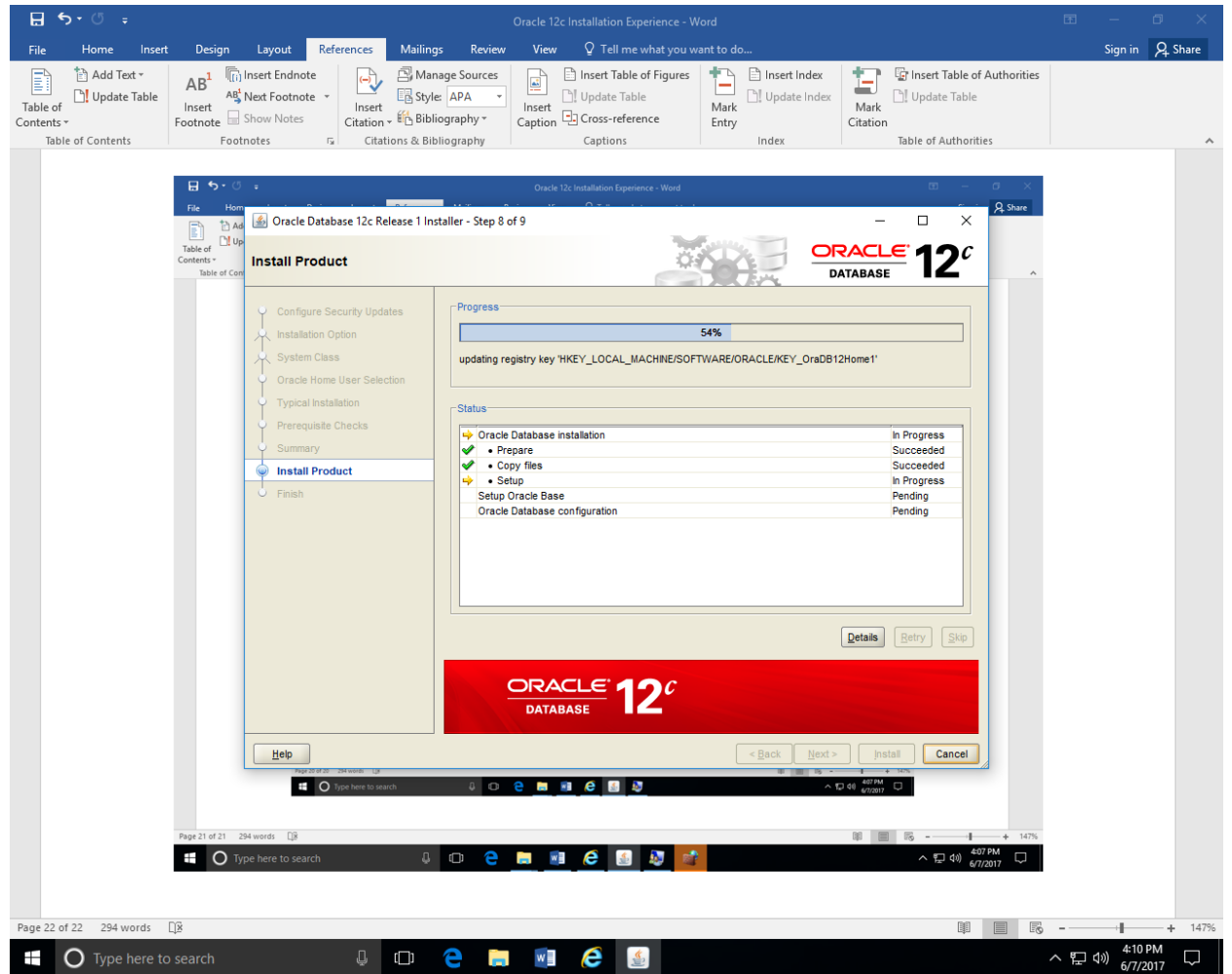
13. Click "Install"

13. Provide permission to let Java do its thing.



14. If you see some messages like "File not found," most likely you did not unzip the two (2) zip files into one folder. You need to "Cancel" and redo it again, after you unzip the two files

under the same folder.

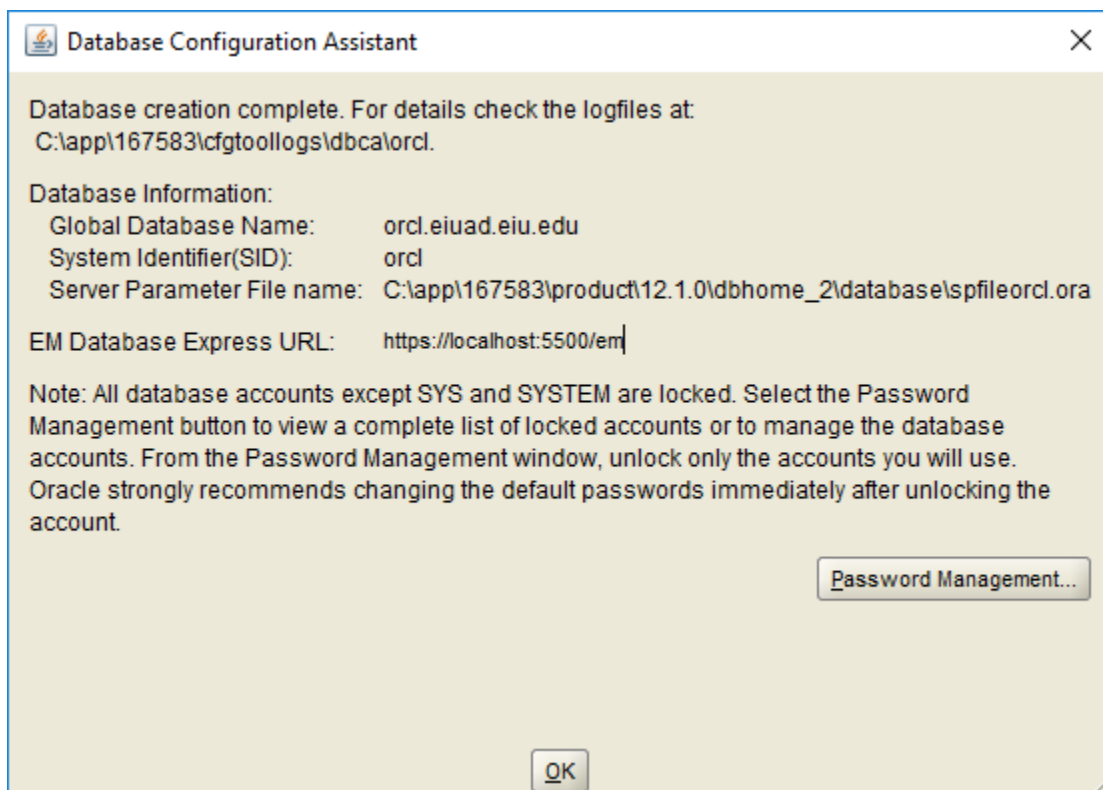


15. For my first installation, it was stalled at 54% showing registry update problem. This problem was due to the account privileges. The problem can be resolved by using "Windows Built-in Account."

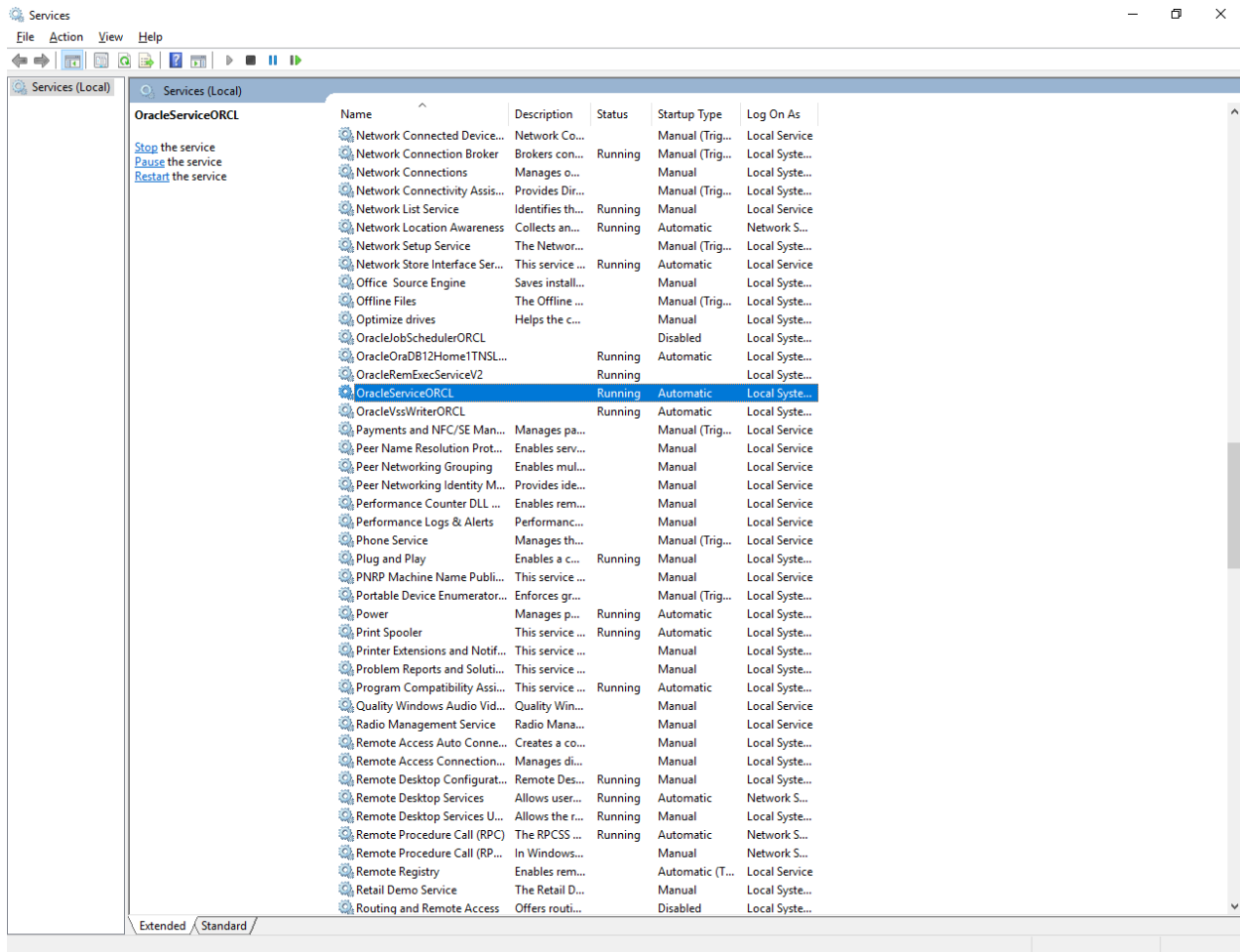
It still hangs on 54%. Could not update the registry.

16. For my third trial, Oracle Universal Installer was hung at 88% waiting for “Oracle Database Configuration Assistant” to start. There is an item pending. Those two are not critical for us right now. We can always run them in the future.

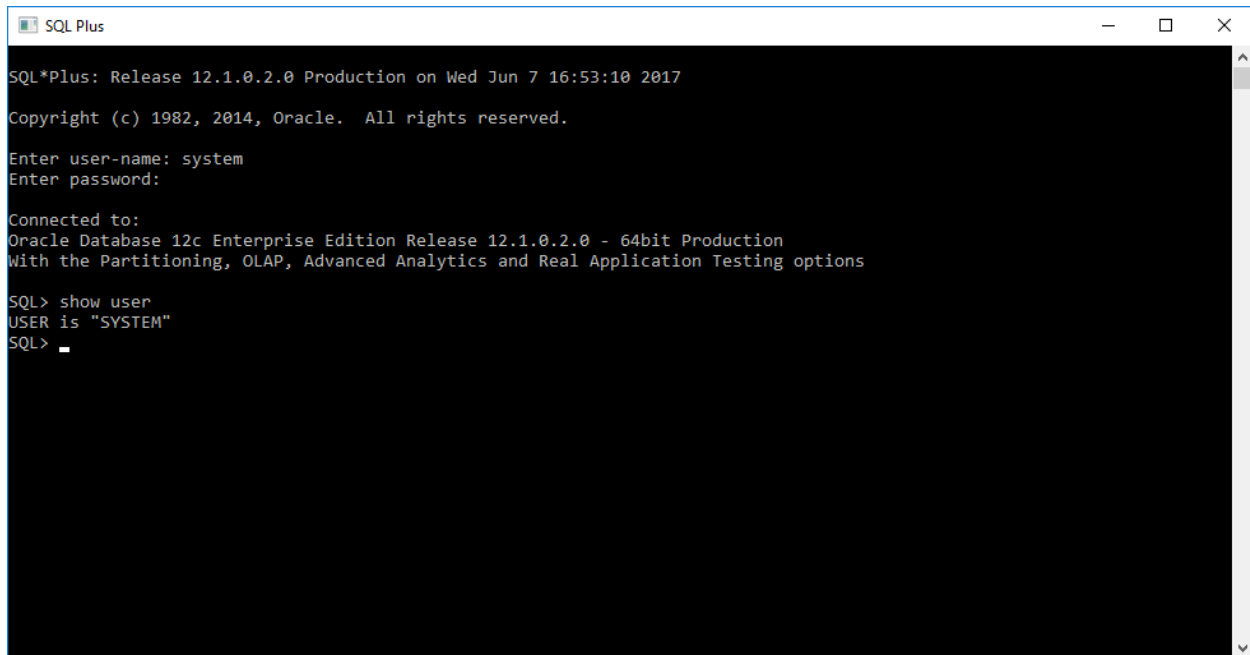
Thus, I can exit the installer. The following screen showed that my Oracle database was successfully installed. Thus, the above (88%) was a software bug from Oracle.



17. After the installation, the first thing I checked was the Windows Services. You will see “OracleServiceORCL” running. That is a good news, meaning the database called ORCL is working.



18. I started SQL Plus from Windows Start menu, enter the user name "SYSTEM" and password "Password1" (the same password I entered as administrative password during installation).



```
SQL*Plus: Release 12.1.0.2.0 Production on Wed Jun 7 16:53:10 2017
Copyright (c) 1982, 2014, Oracle. All rights reserved.
Enter user-name: system
Enter password:
Connected to:
Oracle Database 12c Enterprise Edition Release 12.1.0.2.0 - 64bit Production
With the Partitioning, OLAP, Advanced Analytics and Real Application Testing options
SQL> show user
USER is "SYSTEM"
SQL>
```

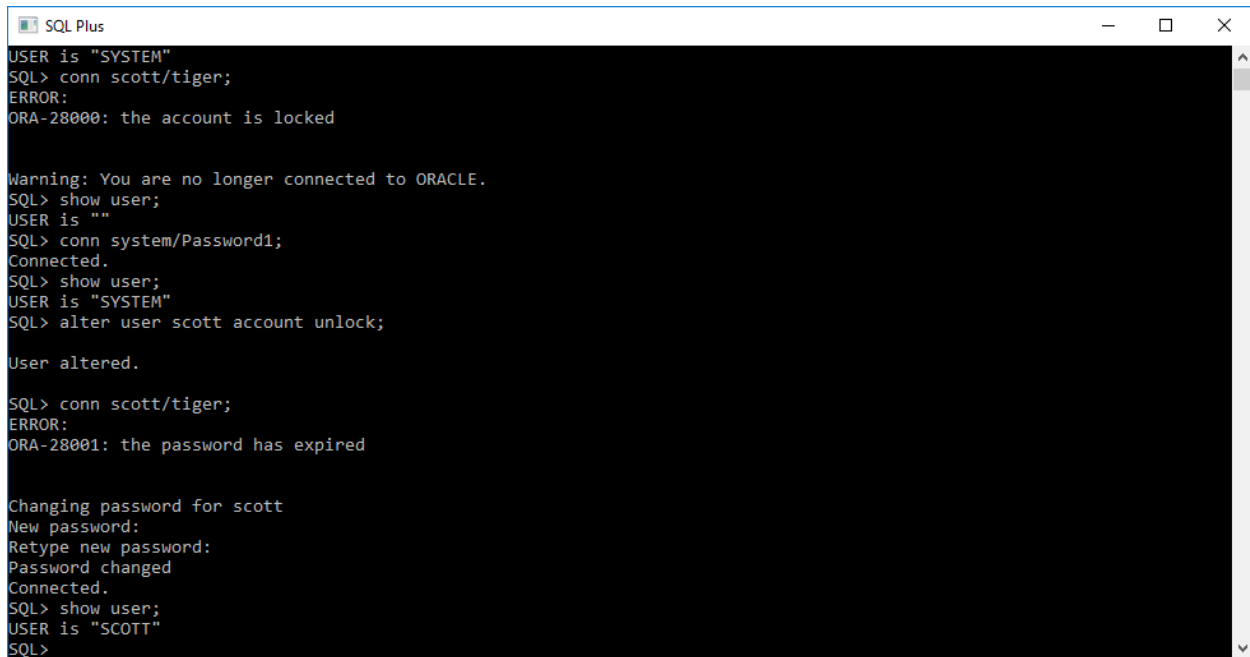
19. If you want to play with the database, for example, to login as “scott/tiger”. The “scott/tiger” is pretty famous database schema (user) among Oracle professionals. When the database was built and scott account was created, Oracle locked the account. You can unlock the account.

The following SQL commands will be useful for this purpose:

```
SQL> conn SYSTEM/Password1;
```

```
SQL>alter user scott account unlock;
```

The above will be useful for your Project V. See the details in the figure below.



```
SQL Plus
USER is "SYSTEM"
SQL> conn scott/tiger;
ERROR:
ORA-28000: the account is locked

Warning: You are no longer connected to ORACLE.
SQL> show user;
USER is ""
SQL> conn system/Password1;
Connected.
SQL> show user;
USER is "SYSTEM"
SQL> alter user scott account unlock;

User altered.

SQL> conn scott/tiger;
ERROR:
ORA-28001: the password has expired

Changing password for scott
New password:
Retype new password:
Password changed
Connected.
SQL> show user;
USER is "SCOTT"
SQL>
```

We are in business. Oracle database was installed and live.

Those are the lessons I learned. Hopefully, you will save some time of trials if you pay attention to them.