

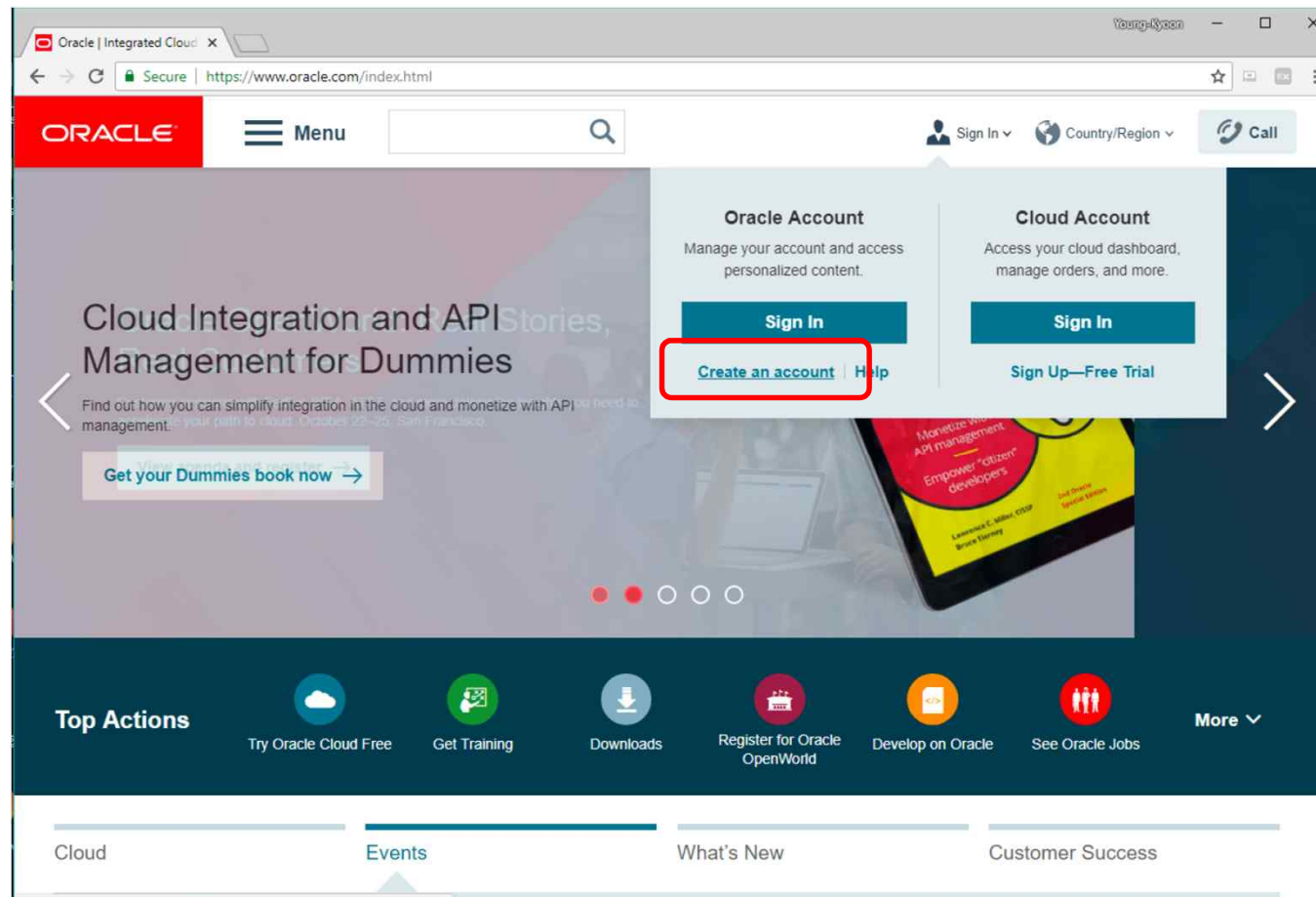


INSTALLATION OF A DATABASE MANAGEMENT SYSTEM (DBMS)

- Oracle DBMS

Oracle Installation

- Go to the Oracle website and create your Oracle account.



Oracle Installation (Cont'd)

The screenshot shows a web browser window with the Oracle logo in the top left. The page title is "Create Your Oracle Account". Below the title, there is a link "Already have an Oracle Account? Sign In". The form contains several fields: "Email Address" with the value "yksuh@knu.ac.kr", "Password", "Retype password", "Country" (set to "Korea"), "Name" (split into "Last Name" and "First or Given Name"), "English Name" (split into "English Last Name" and "English First Name"), "Job Title", and "Work Phone" with the value "e.g. +82-2-2194-8000". A green checkmark and text "We will email a confirmation to you" are visible below the email field. A password requirement note is on the right: "Passwords must have upper and lower case letters, at least 1 number, not match any part of your email, and be at least 8 characters long."

Oracle | Create Account x

Secure | <https://profile.oracle.com/myprofile/account/create-account.jspx>

ORACLE

Create Your Oracle Account

Already have an Oracle Account? [Sign In](#)

Email Address * Your email address is your username.
✓ We will email a confirmation to you

Password *

Retype password *

Country *

Name *

English Name *

Job Title *

Work Phone *

Passwords must have upper and lower case letters, at least 1 number, not match any part of your email, and be at least 8 characters long.

Oracle Installation (Cont'd)

The screenshot displays the Oracle Account 'My Profile' page. The browser address bar shows the URL: <https://profile.oracle.com/myprofile/account/secure/update-account.jsp?nexturl=https%3A//www.oracle.c...>. The page features the Oracle logo and a 'Menu' button. The left sidebar contains links for 'My Profile', 'Subscriptions', and 'Communities'. The main content area is titled 'My Profile' and includes a 'Continue' button. Below this, there are sections for 'Username/Email', 'Password', 'Contact Information', and 'Manage Subscriptions/Communities'.

Field	Value	Action
Username/Email	yksuh0903@gmail.com	Edit
Password	(not shown)	Edit
Contact Information Edit		
Name	Suh Youngkyoon	
English Name	Suh Youngkyoon	
Job Title	Professor	
Country	Korea	
Work Phone	82-53-950-6372	
Company Name	Kyungpook National University	
Address	80 Daehakro IT-5 520	
City	Bukgu	
State/Province	Taegu	
ZIP/Postal Code	41566	

> [Manage Subscriptions](#)

> [Manage Communities](#)

Oracle Installation (Cont'd)

Oracle | Update Account x Oracle Database Software x

Not secure www.oracle.com/technetwork/database/enterprise-edition/downloads/index.html

Oracle Technology Network / Database / Database Downloads / Downloads

Database Downloads

- 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
- Database A - Z
- Multilingual Engine

Downloads

Oracle Database Software Downloads

You must accept the [OTN License Agreement](#) to download this software.

☒ Accept License Agreement ☐ Decline License Agreement

Thank you for accepting the OTN License Agreement; you may now download this software.

Oracle Database 18c (18.3)

Microsoft Windows x64 (64-bit)	File 1 (4.4 GB)	See All
Linux x86-64	File 1 (4.3 GB)	See All
Oracle Solaris (SPARC systems, 64-bit)	File 1 (4.1 GB)	See All
Oracle Solaris (x86 systems, 64-bit)	File 1 (3.7 GB)	See All

Oracle Database 12c Release 2

(12.2.0.1.0) - Standard Edition 2 and Enterprise Edition

Microsoft Windows x64 (64-bit)	File 1 (2.8 GB)	See All
Linux x86-64	File 1 (3.2 GB)	See All
Oracle Solaris (SPARC systems, 64-bit)	File 1 (3.1 GB)	See All
Oracle Solaris (x86 systems, 64-bit)	File 1 (2.8 GB)	See All
HP-UX Itanium	File 1 (3.7 GB)	See All
AIX (PPC64)	File 1 (3.1 GB)	See All
Linux on System z (64-bit)	File 1 (2.5 GB)	See All

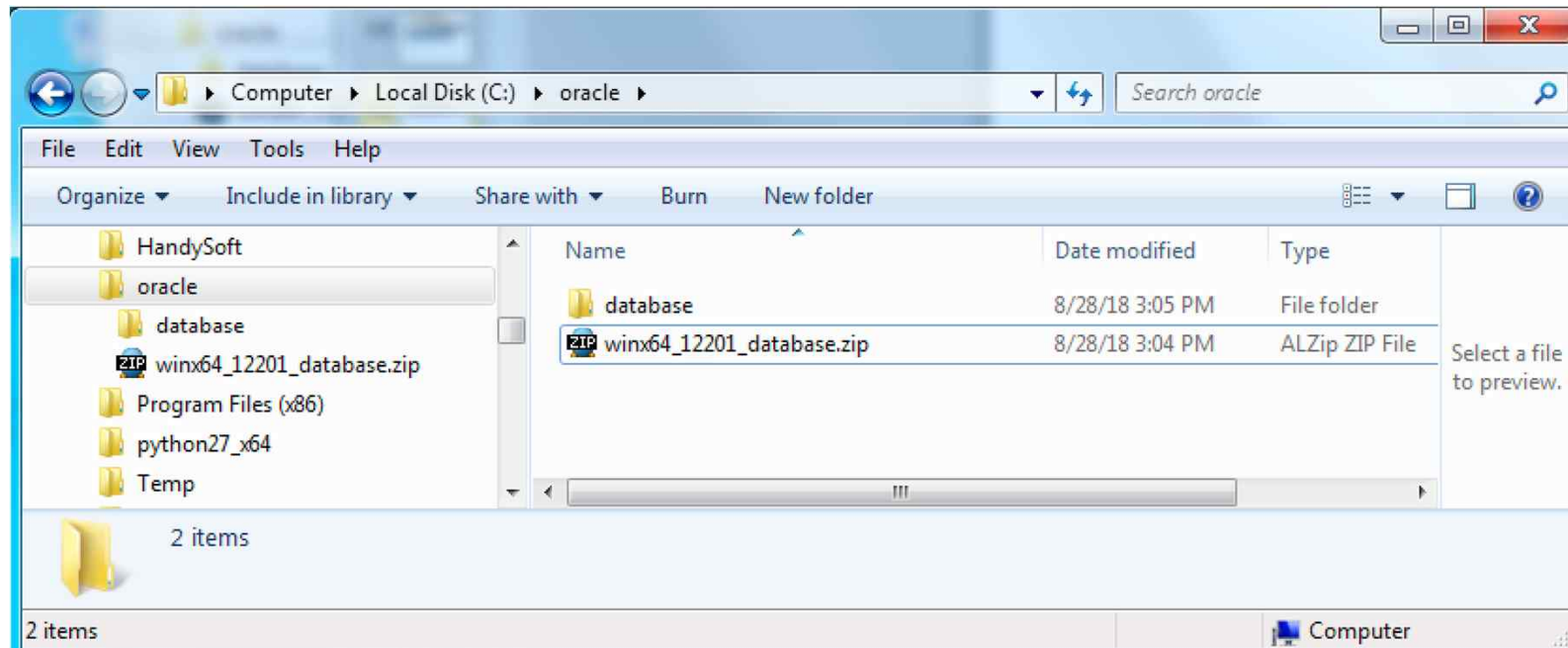
winx64_12201_data....z... 0.0/2.8 GB, 24 mins left

Show all

Oracle Installation (Cont'd)

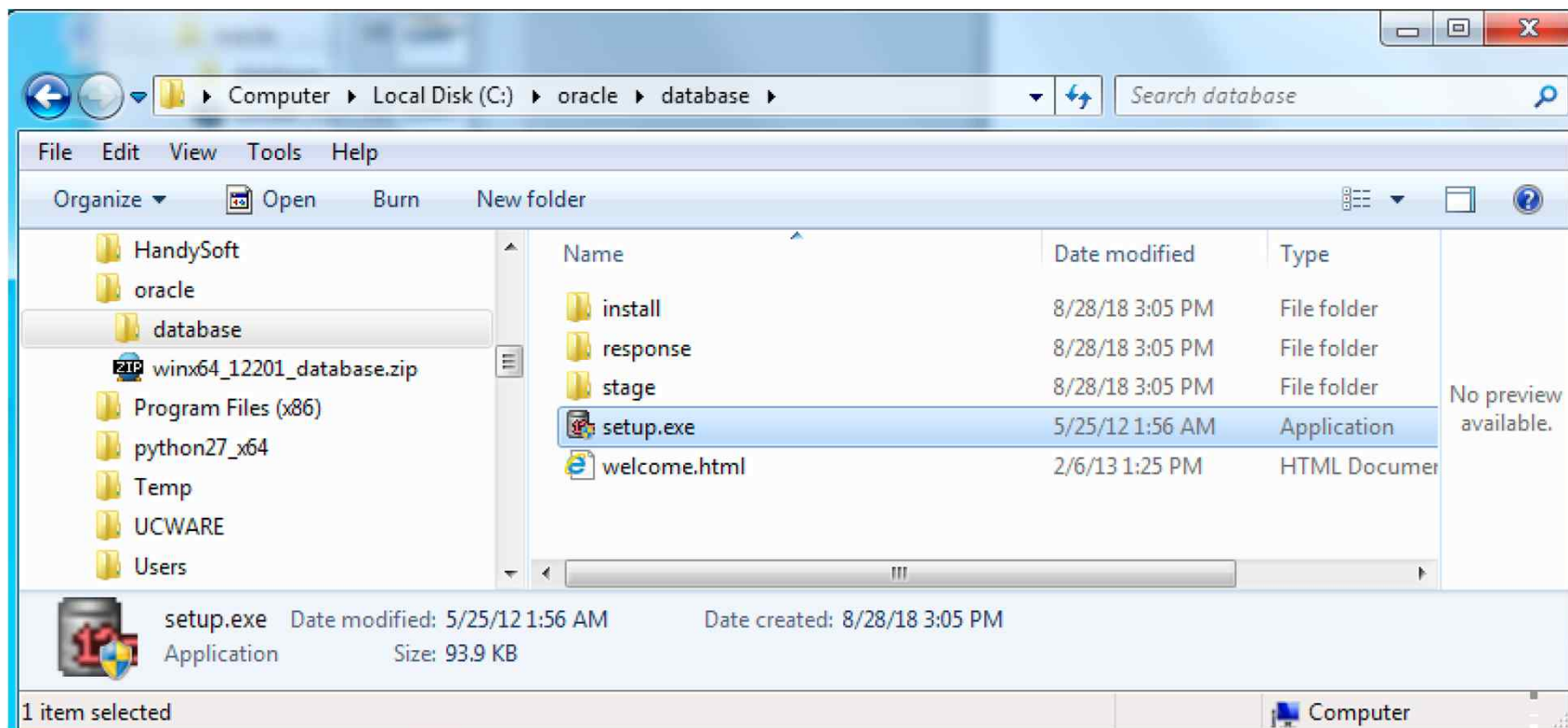
- Create a directory named “`oracle`” under D drive on your PC.
 - But my slides assume the directory is created under C drive.
 - I also assume that you have logged as your own account into your desktop in our lab classroom.
 - If someone else has already installed Oracle under `D:\oracle`, then first create a super directory named `sYour_Student_ID` and `oracle` directory : e.g., `D:\s2016116552\oracle`.)
- Move the downloaded zip file into the above `oracle` directory and unzip it there.
- Move its subdirectory named ‘`database`’ up into the ‘`oracle`’ directory. Remove the ‘`winx64_12201_database`’ directory, which is now empty.

Oracle Installation (Cont'd)



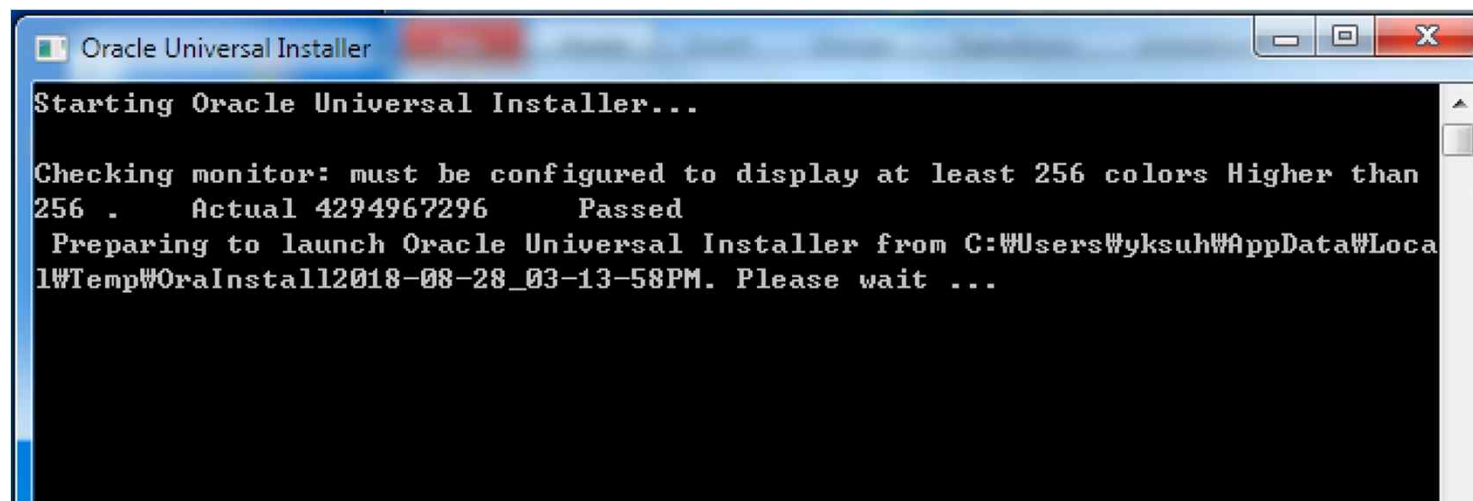
Oracle Installation (Cont'd)

- Get into 'database' and run the 'setup.exe' file.



Oracle Installation (Cont'd)

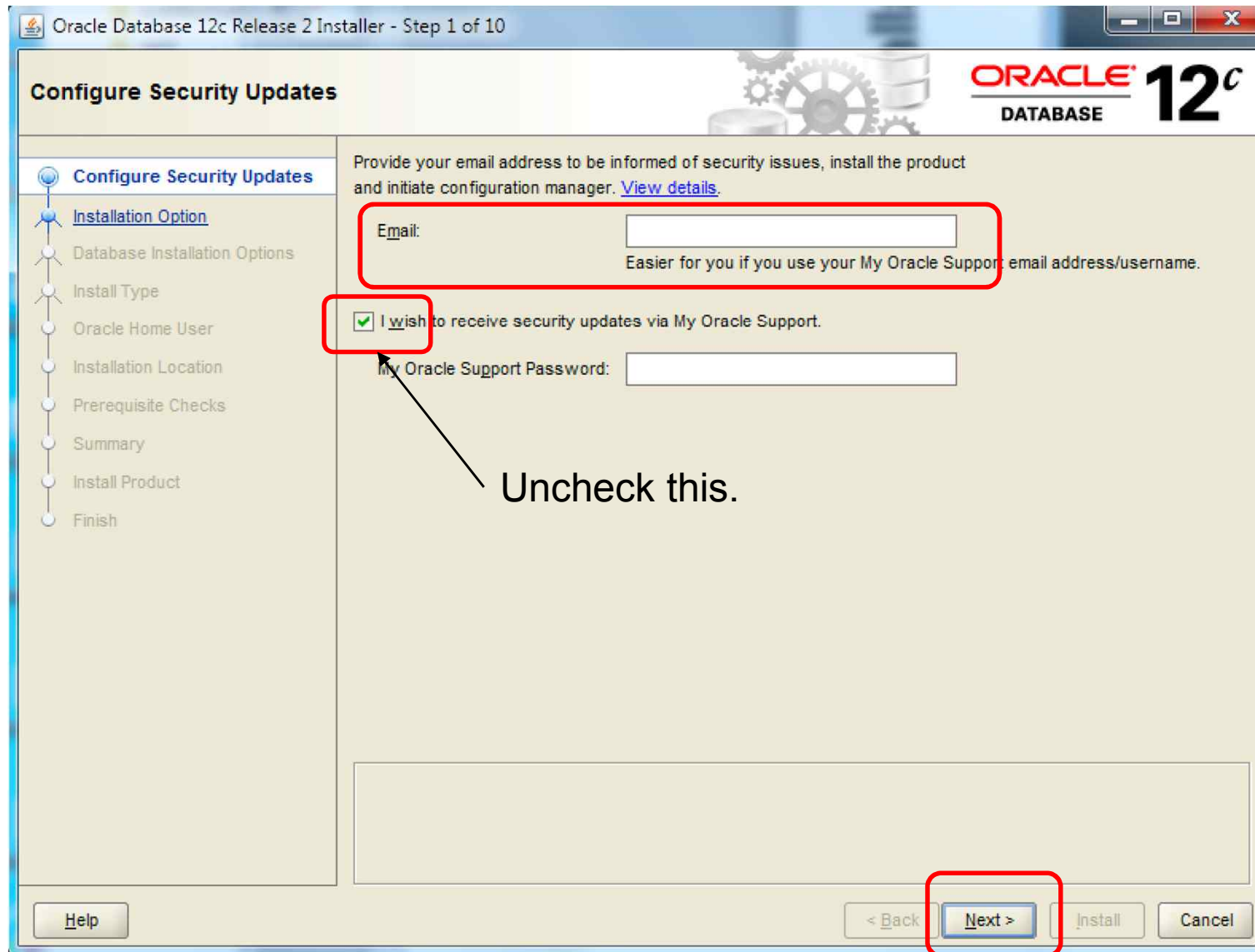
- You'll see the following... Just wait.



```
Oracle Universal Installer
Starting Oracle Universal Installer...

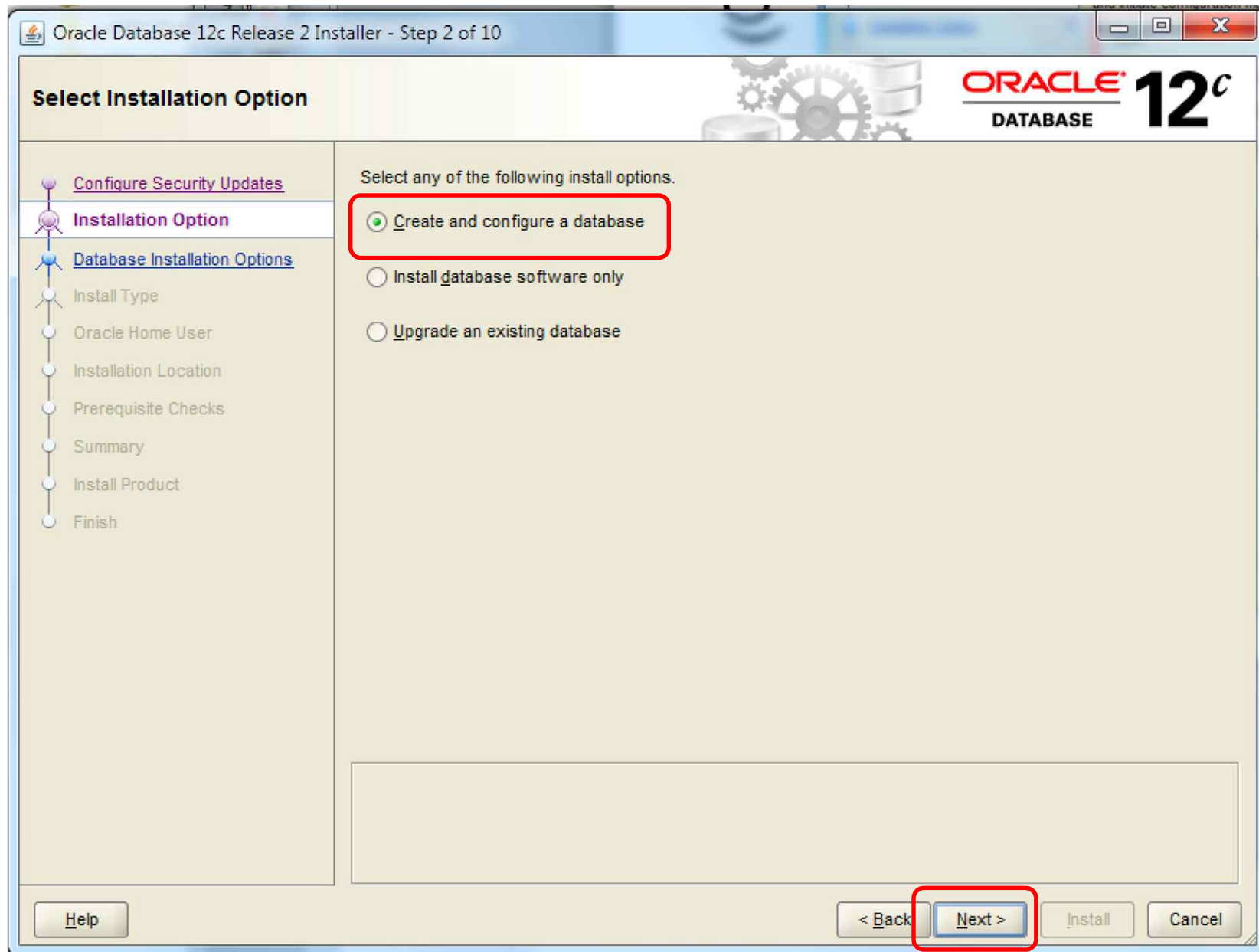
Checking monitor: must be configured to display at least 256 colors Higher than
256 .    Actual 4294967296    Passed
Preparing to launch Oracle Universal Installer from C:\Users\Wyksuh\AppData\Local\Temp\OraInstall2018-08-28_03-13-58PM. Please wait ...
```

- Now the wizard begins to install the Oracle DBMS.



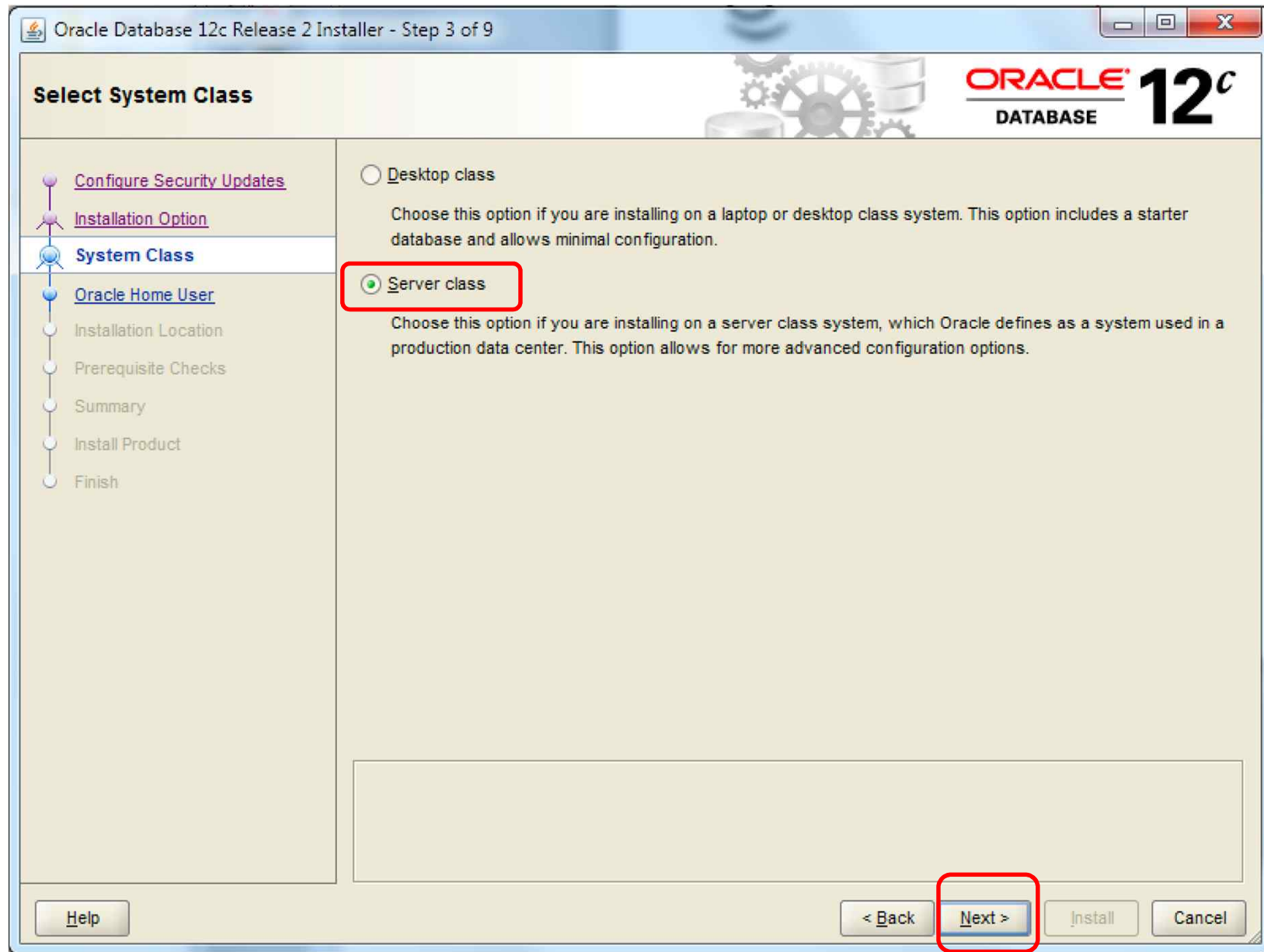
(Step 1 of 12)

[Unchecking receiving updates by email]



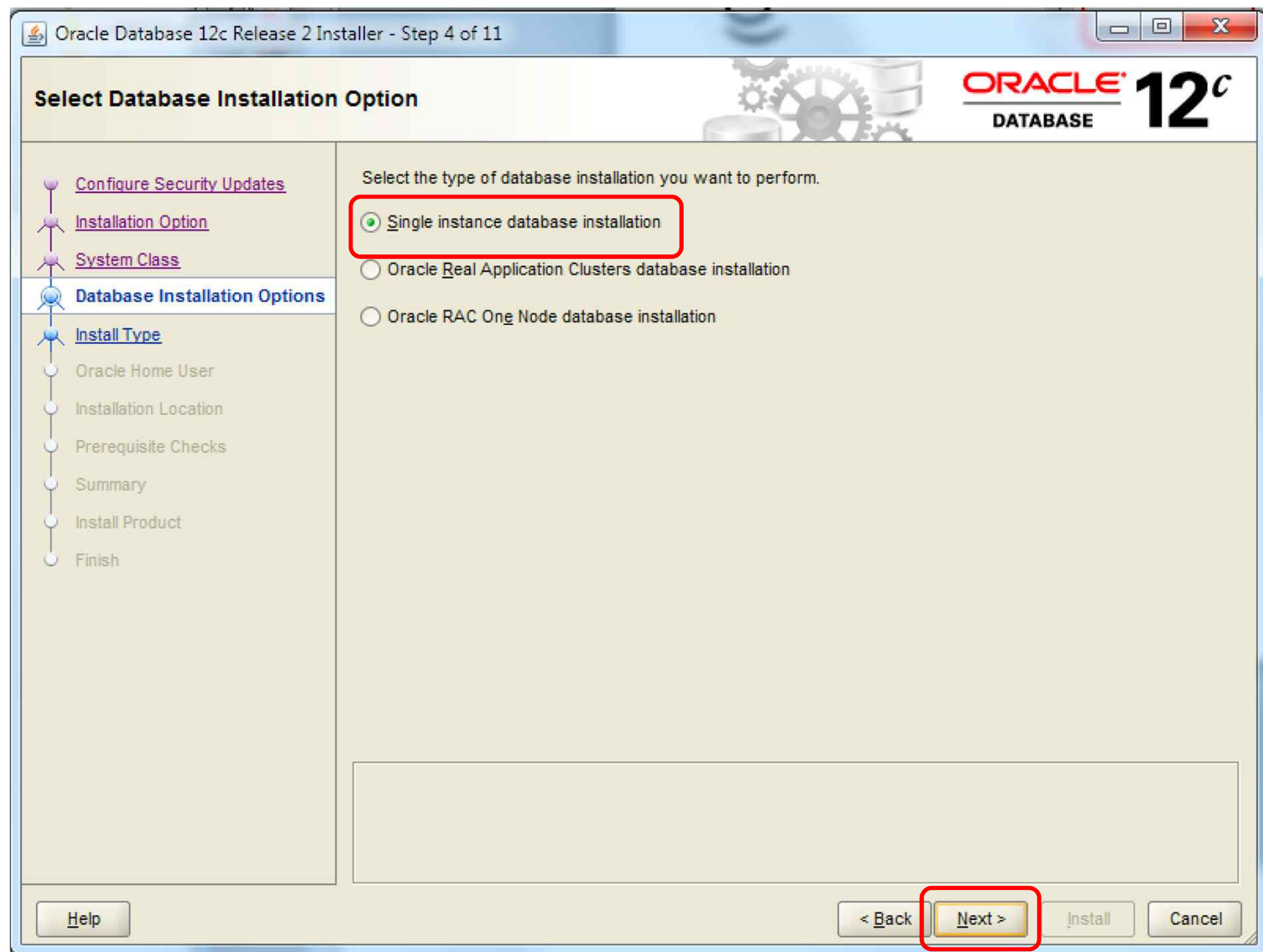
(Step 2 of 12)

[Create and configure a database]



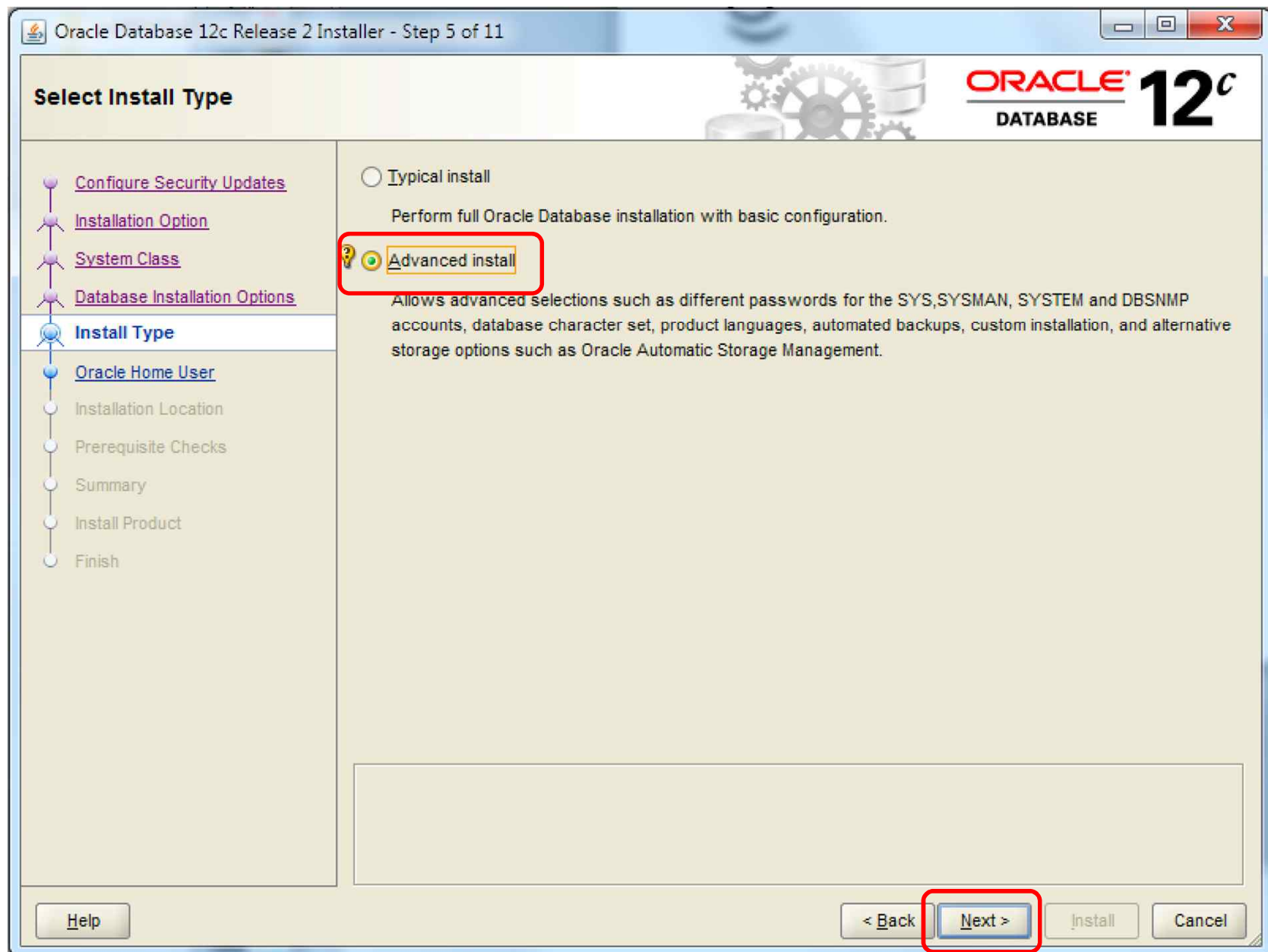
(Step 3 of 12)

[Server class]



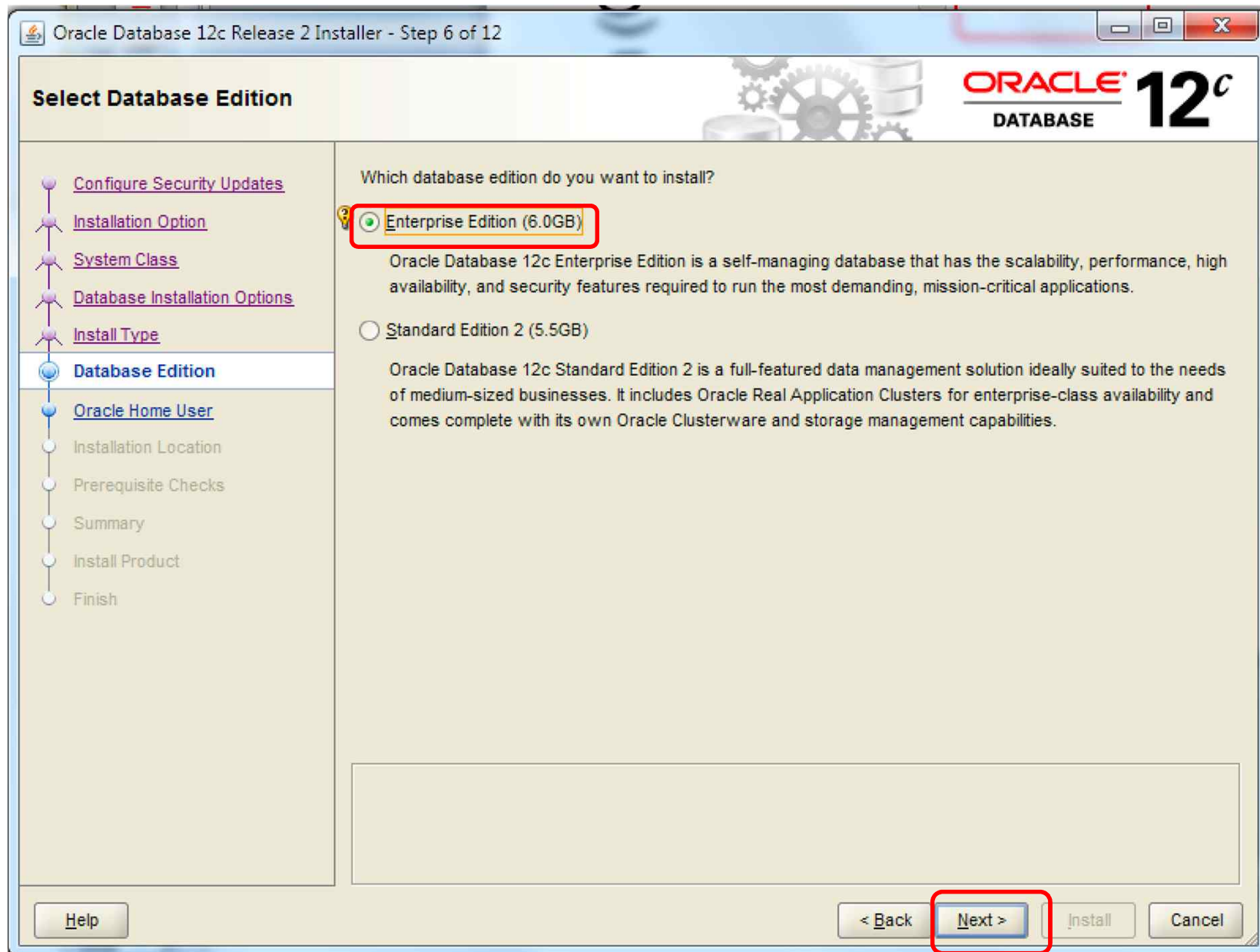
(Step 4 of 12)

[Single Instance]



(Step 5 of 12)

[Advanced Install]



(Step 6 of 12)

[Enterprise Edition]

Oracle Database 12c Release 2 Installer - Step 7 of 12

Specify Oracle Home User


For enhanced security, you may choose to run Windows Services from this Oracle home with a non-administrator account. Oracle recommends that you choose a Virtual Account or specify a standard Windows User Account for this purpose.

☒ Use Virtual Account

☐ Use Existing Windows User

User Name:

Password:

☐  Create New Windows User

User Name:

Password:

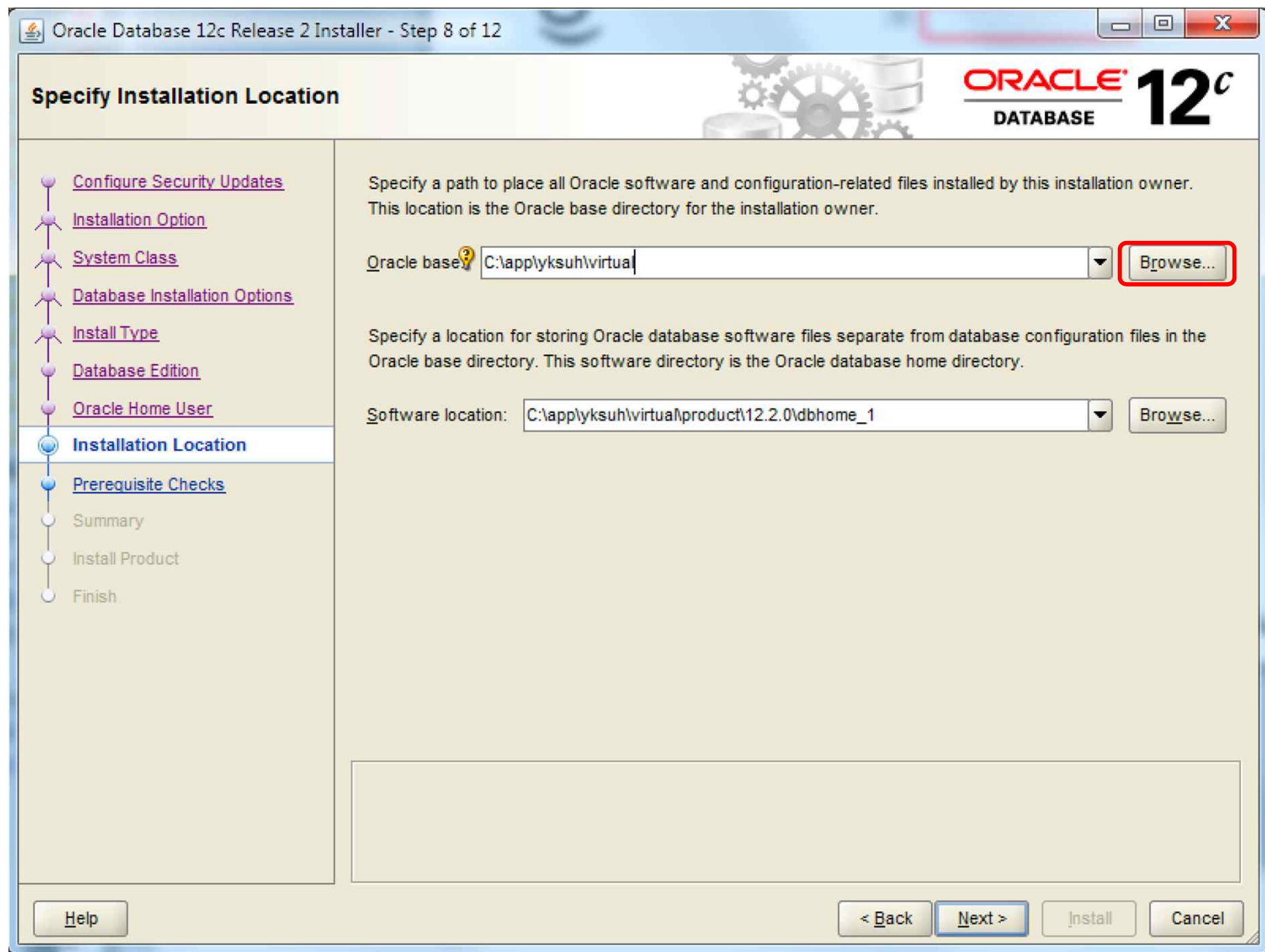
Confirm Password:

The newly created user is denied Windows logon privileges.

☐ Use Windows Built-in Account

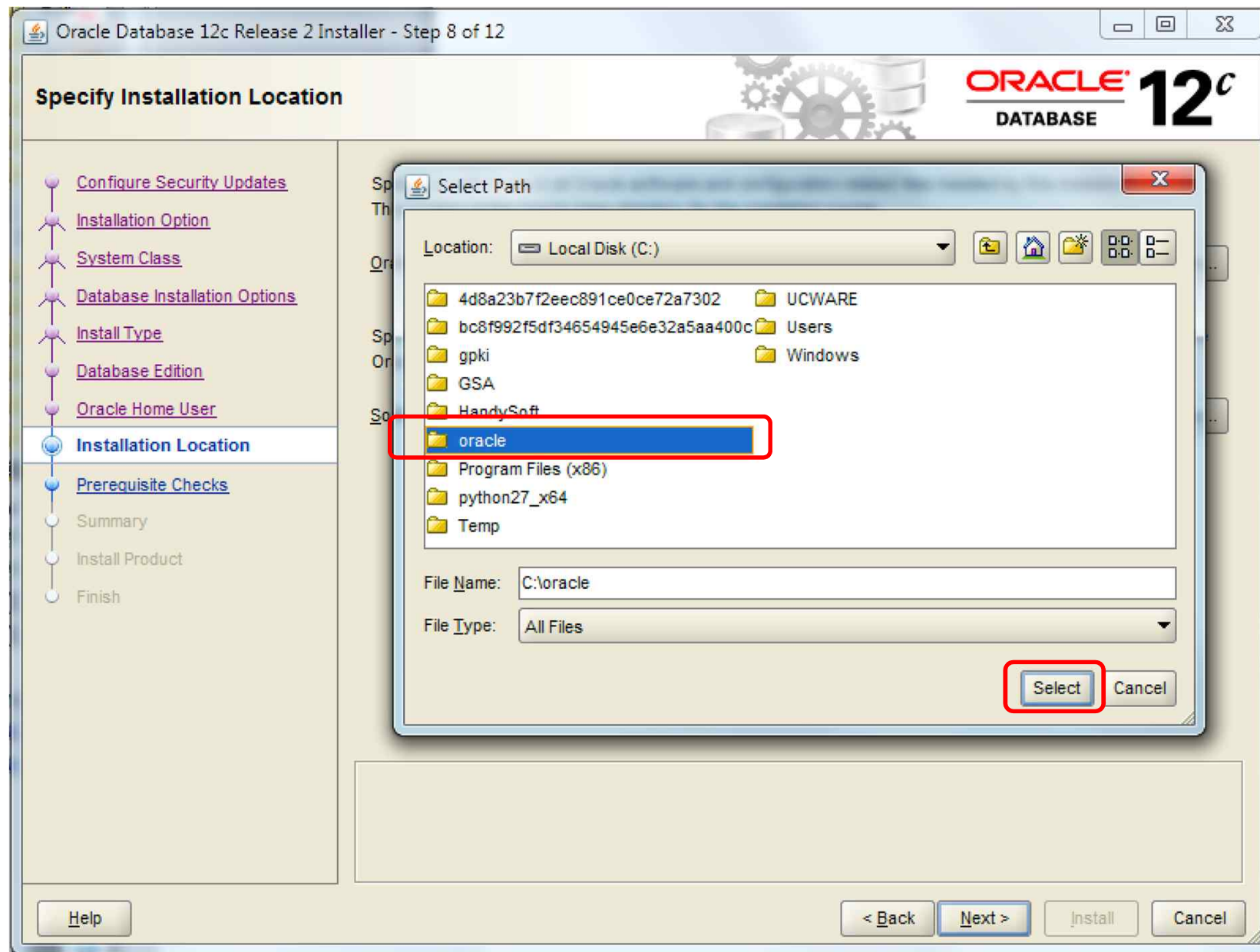
(Step 7 of 12)

[Use of Virtual Account]



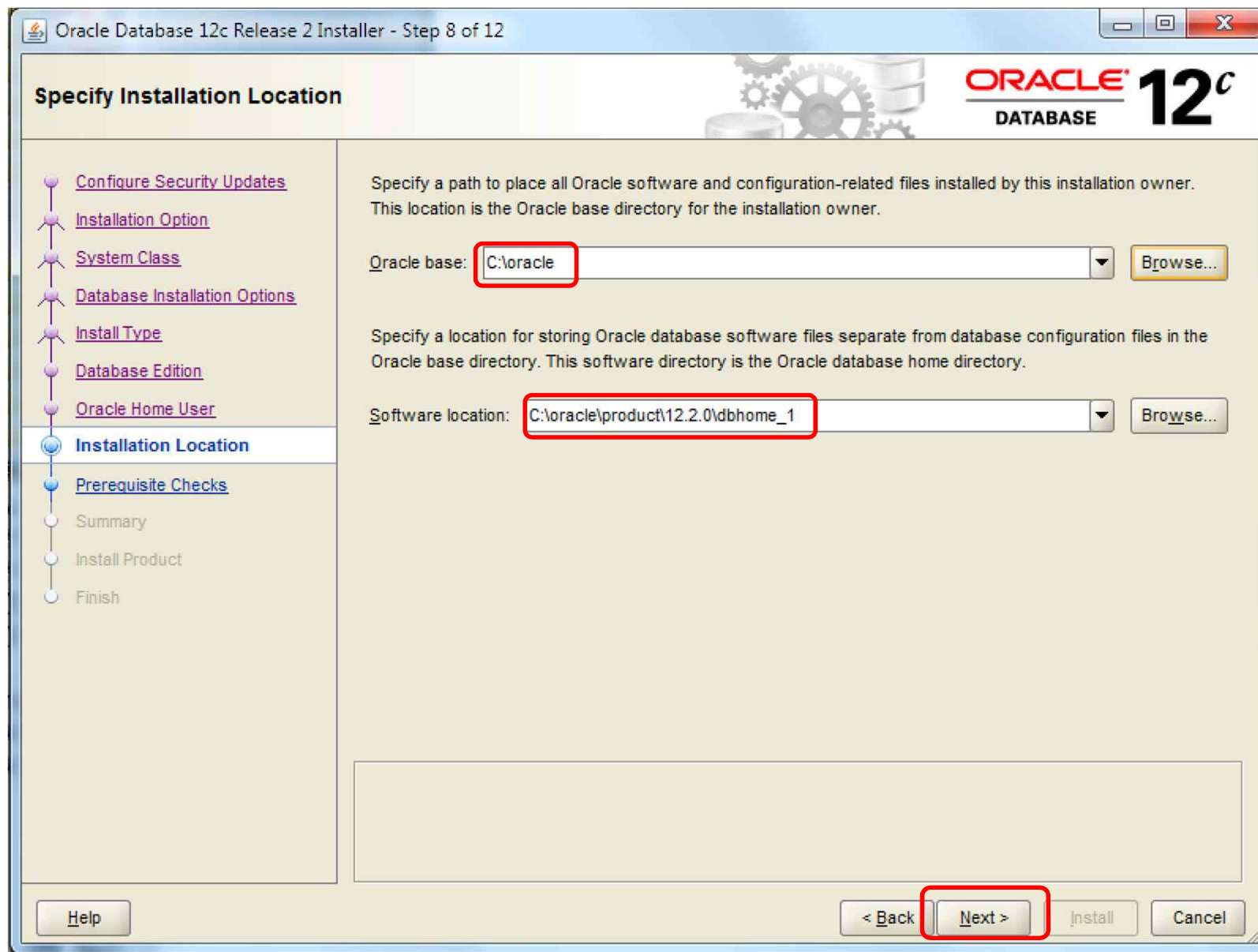
(Step 8 of 12)

[Changing the Location of Installation]



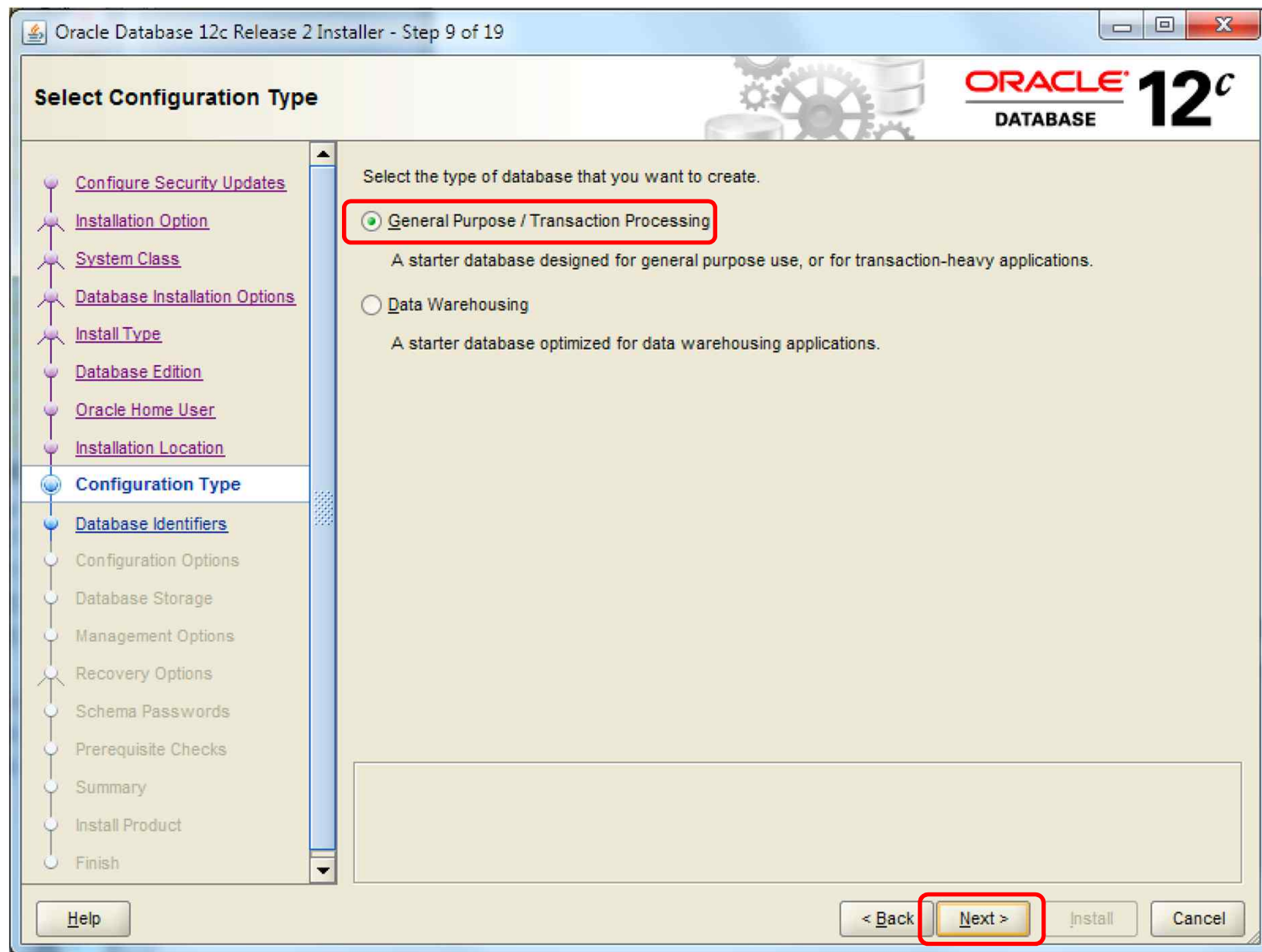
(Step 8 of 12 (Cont'd))

[Changing the location of installation]



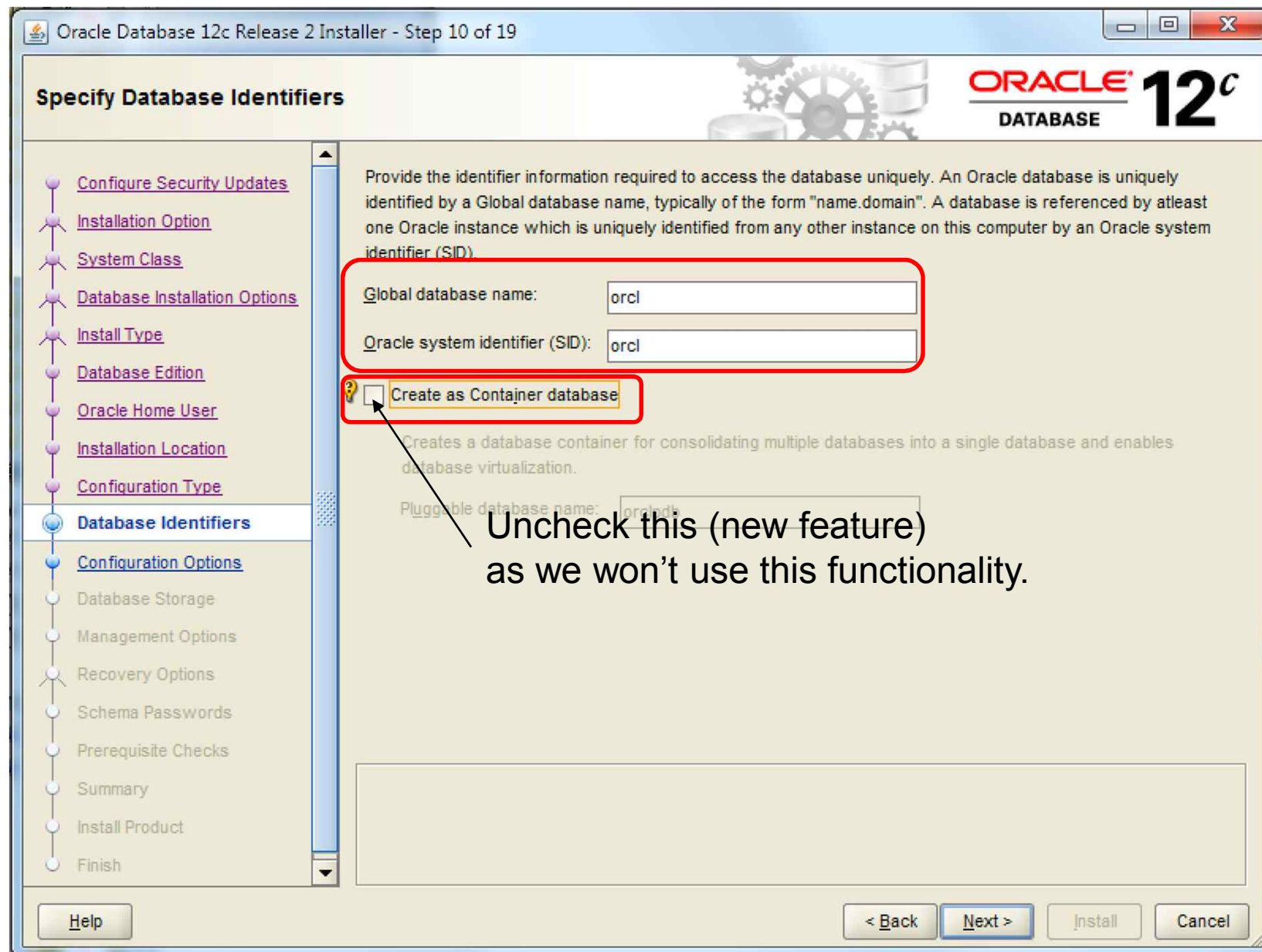
(Step 8 of 12 (Cont'd))

[Changing the location of installation]



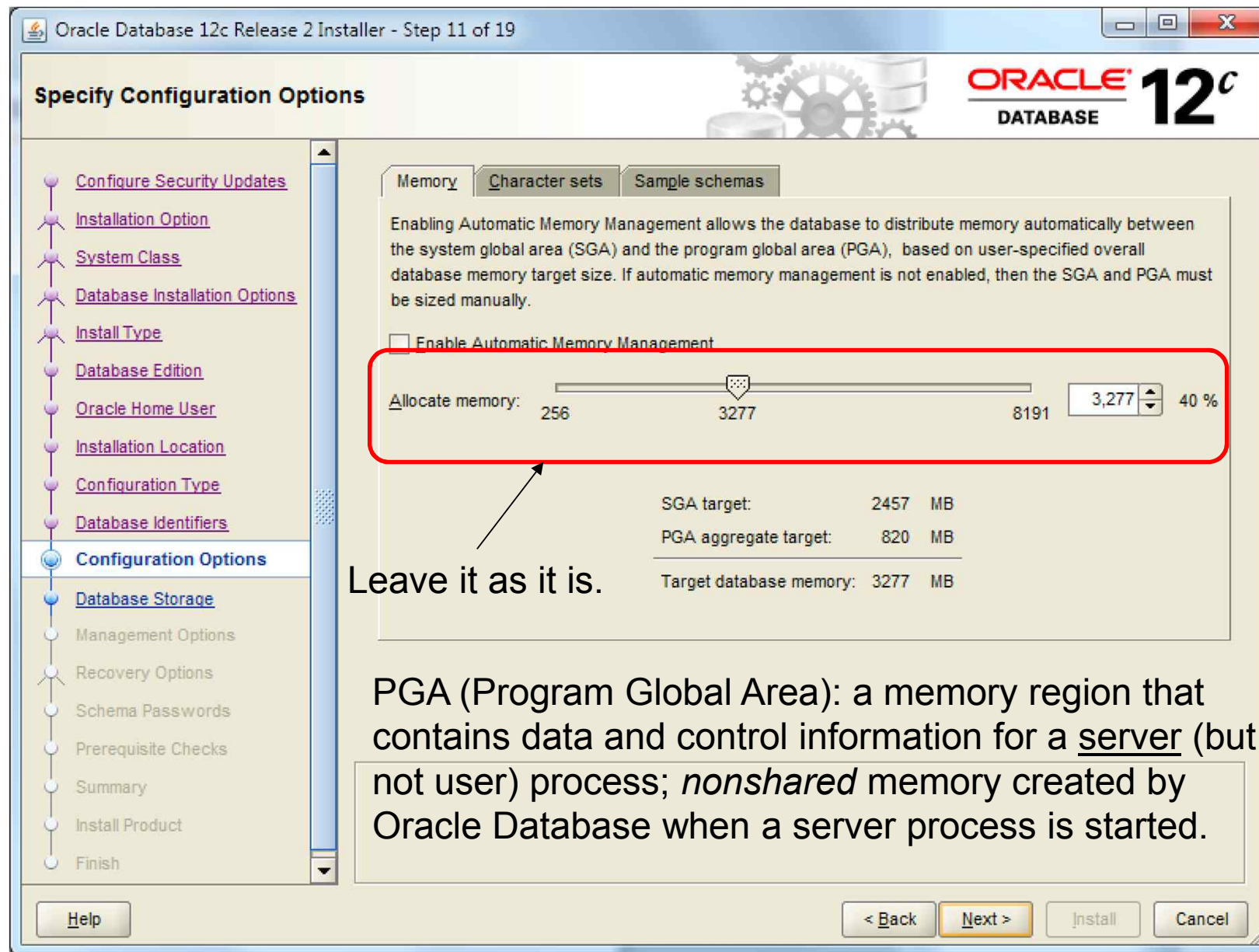
(Step 9 of 19)

[Database Configuration Type]



(Step 10 of 19)

[Setting up a Database Identifier]



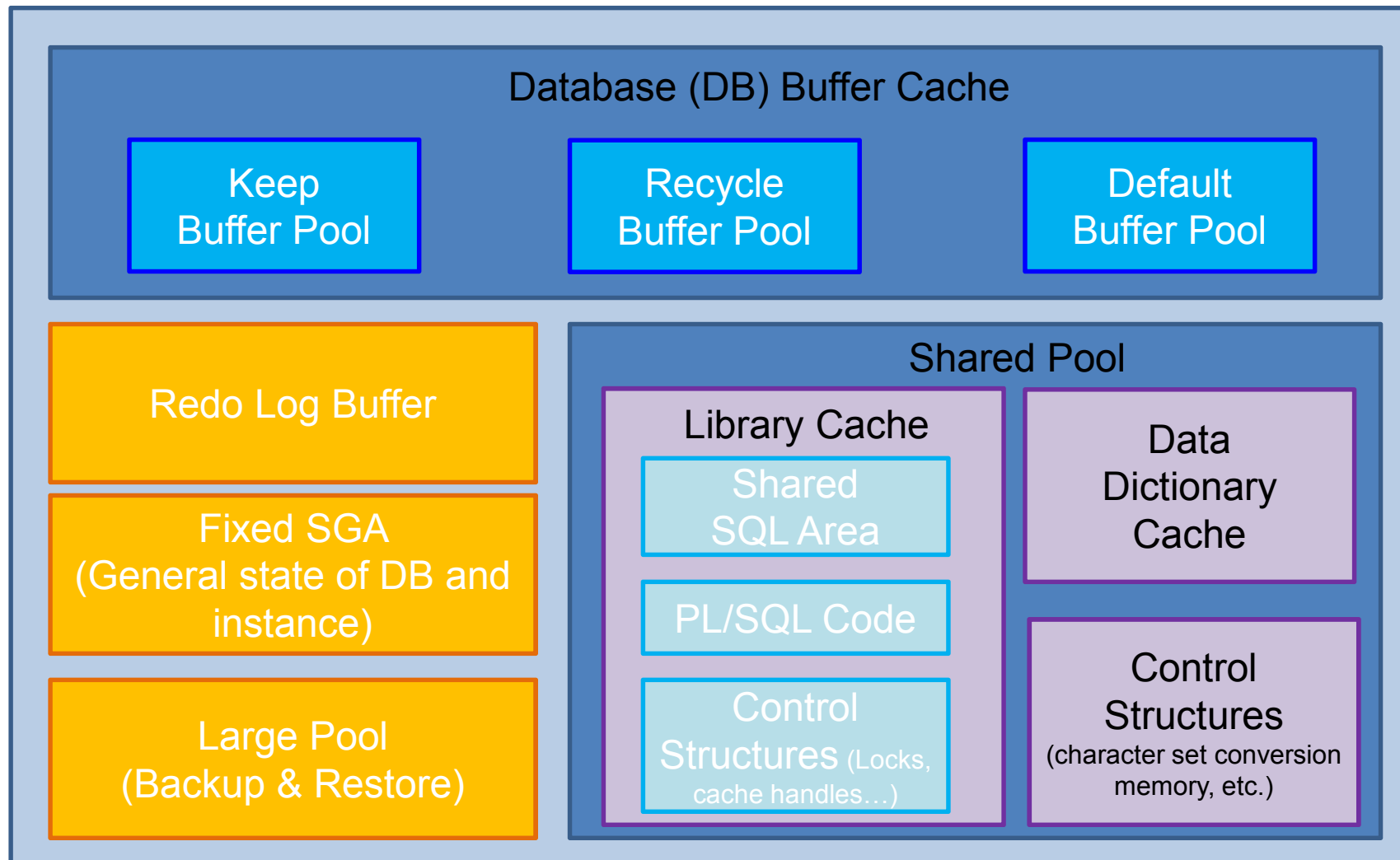
(Step 11 of 19)

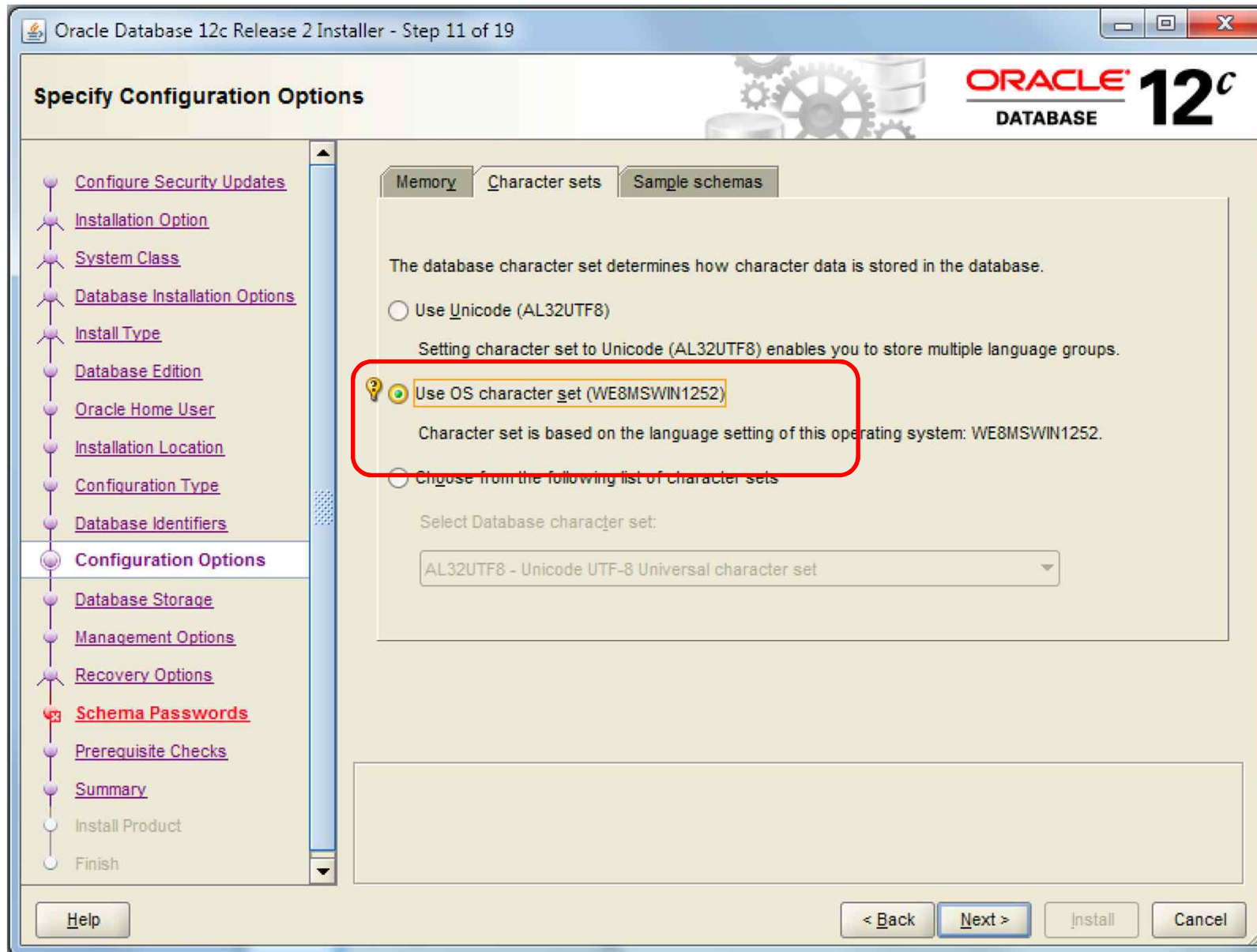
[Database Configuration Option: Memory Allocation]

[INFO] Oracle DBMS

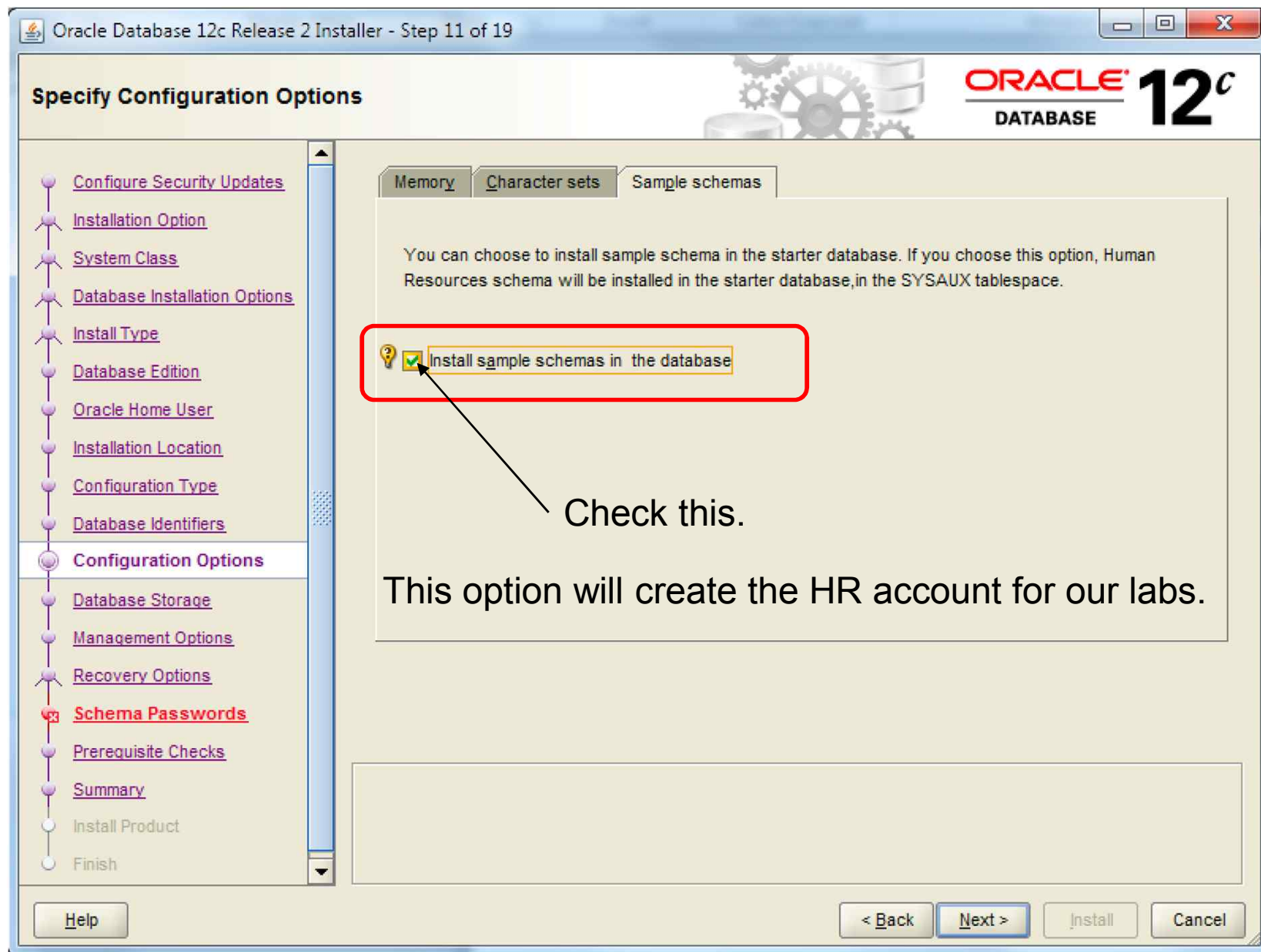
- Consists of two regions:
 - 1) Physical file region
 - 2) Memory and process region (allocated in RAM).
- If the Oracle DBMS terminates, then the regions of memory and process are gone; thus, *volatile*.
 - In Oracle, the memory is called *System Global Area* (SGA) while the process is called *background process* (or PGA).
 - When we say an (oracle) *instance*, it means the two, the regions of memory and process together.
- However, the physical file region doesn't disappear. It stays permanently; thus, *nonvolatile*.

Appendix: More Details about SGA

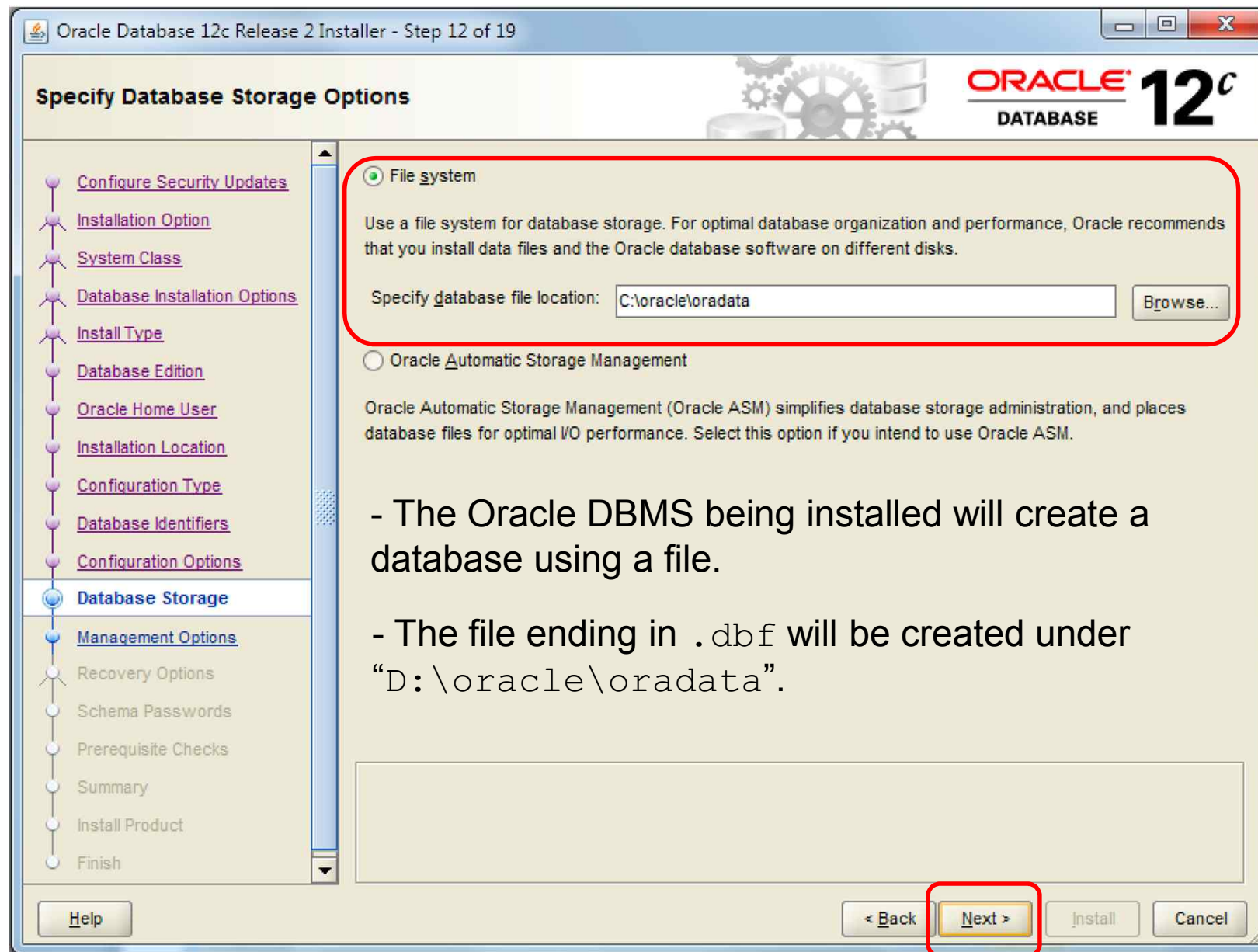




(Step 11 of 19 (Cont'd)) [Database Configuration Option: Character Sets]

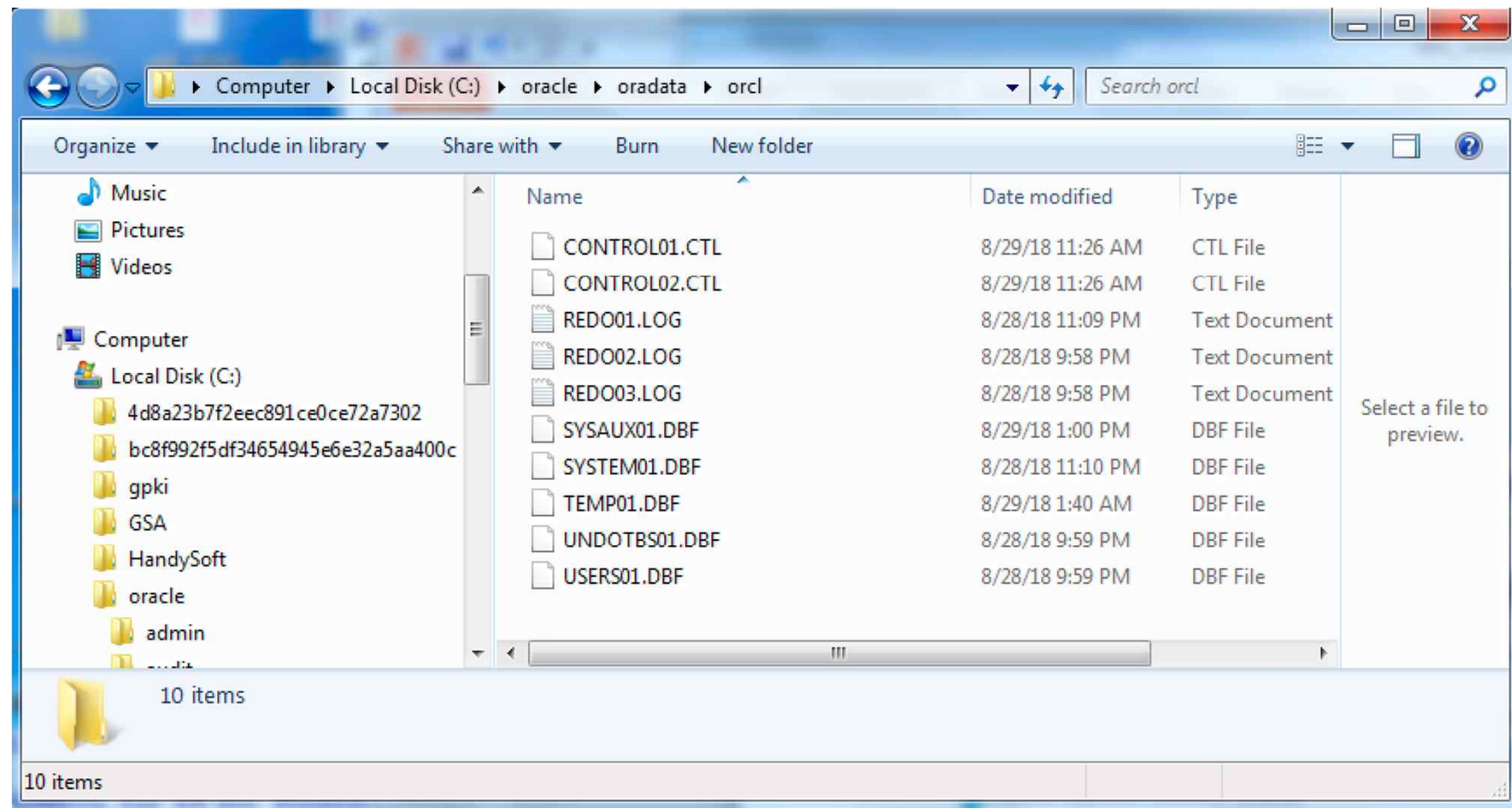


(Step 11 of 19 (Cont'd)) [Database Configuration Option: Sample Schema]



(Step 12 of 19)

[Database Storage Region Configuration]



(Step 12 of 19)

[After Installation]

Oracle Database 12c Release 2 Installer - Step 13 of 19

Specify Management Options

Oracle Database 12c is managed by Oracle Database Express by default. You can use Oracle Enterprise Manager 12c Cloud Control to manage each Oracle Database 12c centrally. Specify the details of the Cloud Control configuration to manage your database.

☐ Register with Enterprise Manager (EM) Cloud Control

OMS Host:

OMS Port:

EM Admin User Name:

EM Admin Password:

Leave it as it is. We'll use the default setting.

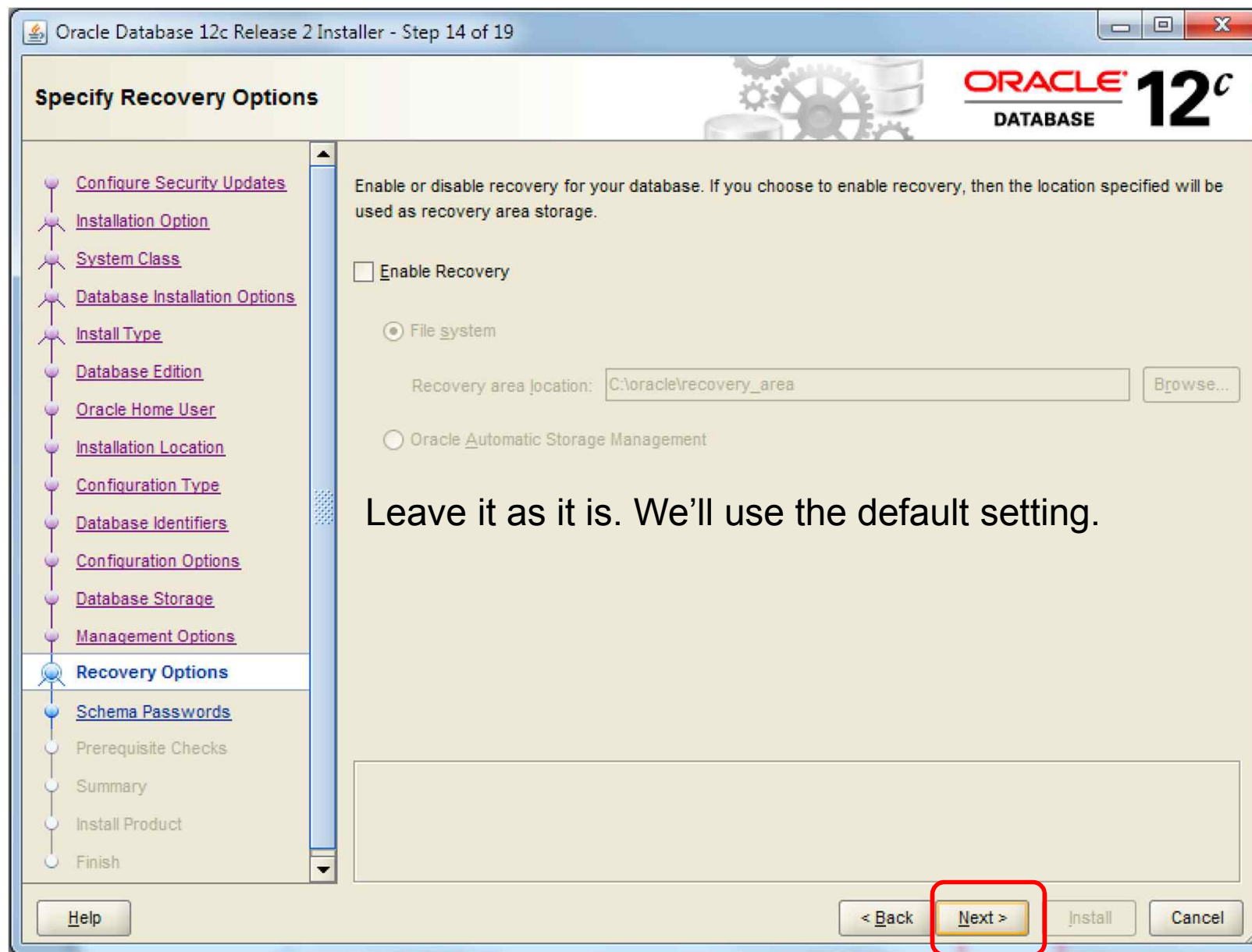
Navigation links in the sidebar:

- Configure Security Updates
- Installation Option
- System Class
- Database Installation Options
- Install Type
- Database Edition
- Oracle Home User
- Installation Location
- Configuration Type
- Database Identifiers
- Configuration Options
- Database Storage
- Management Options**
- Recovery Options
- Schema Passwords
- Prerequisite Checks
- Summary
- Install Product
- Finish

Buttons at the bottom: Help, < Back, **Next >**, Install, Cancel

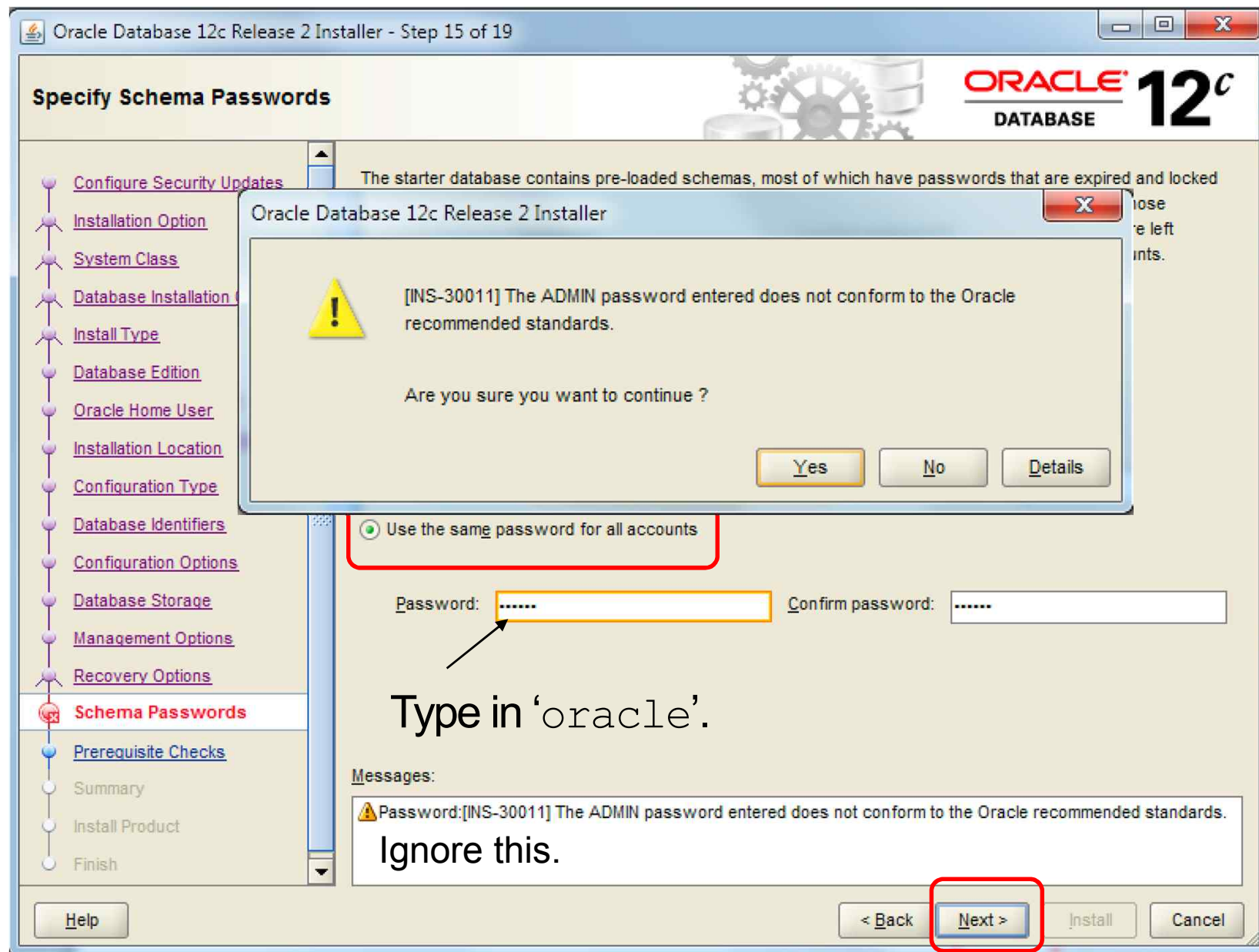
(Step 13 of 19)

[Database Management Option]



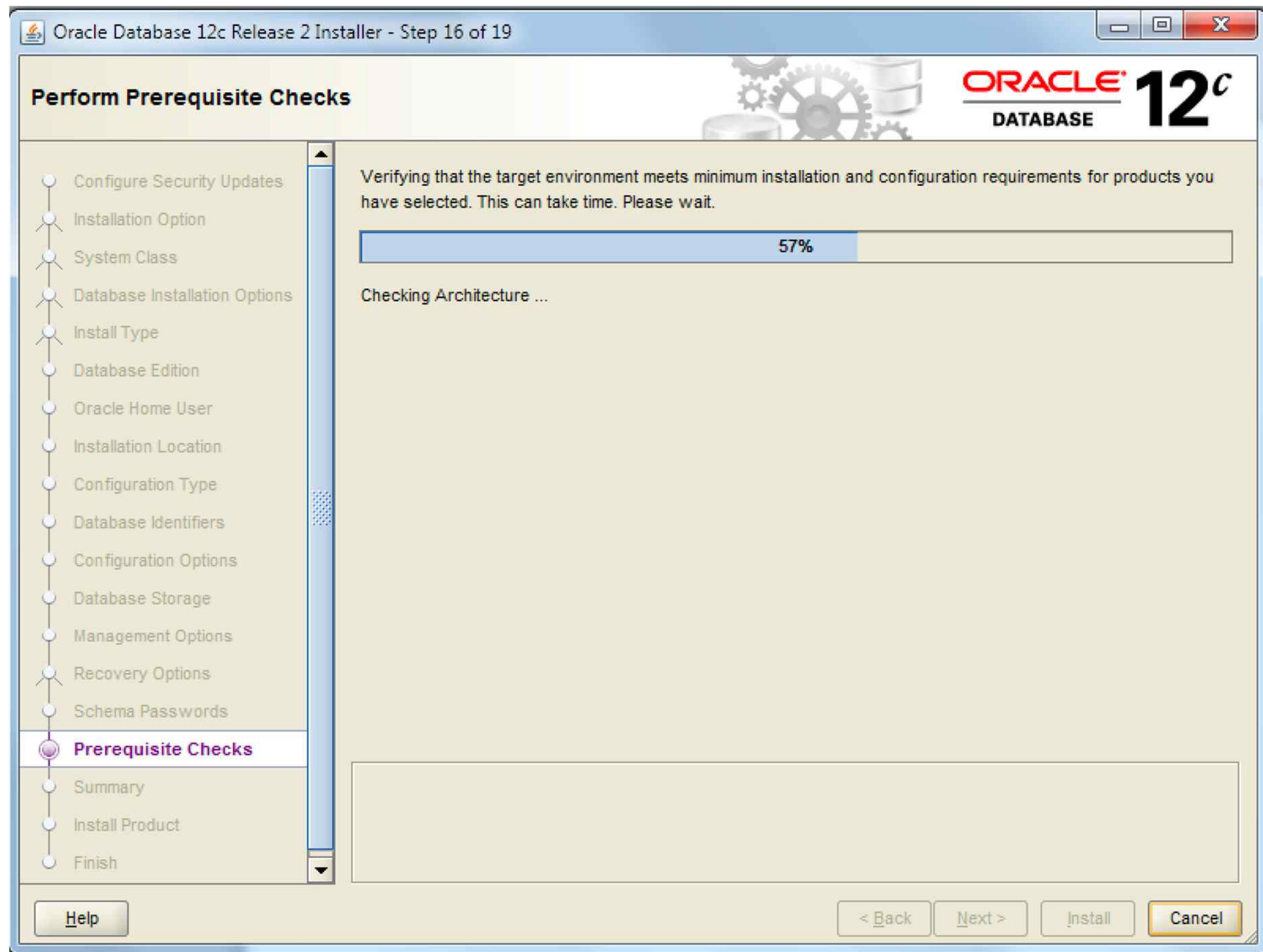
(Step 14 of 19)

[Database Management Option]



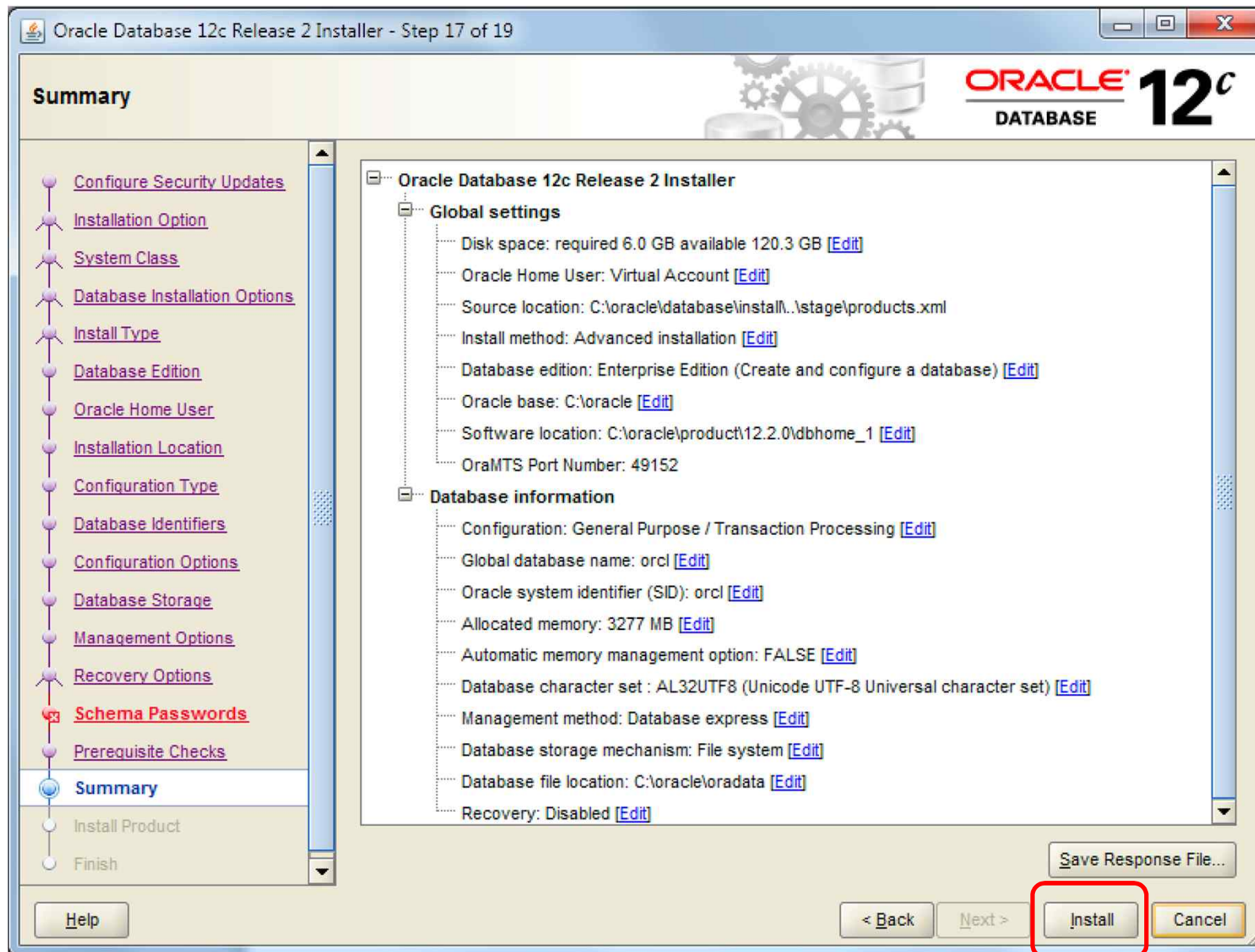
(Step 15 of 19)

[Configuration of DataBase Addministrator's Password]



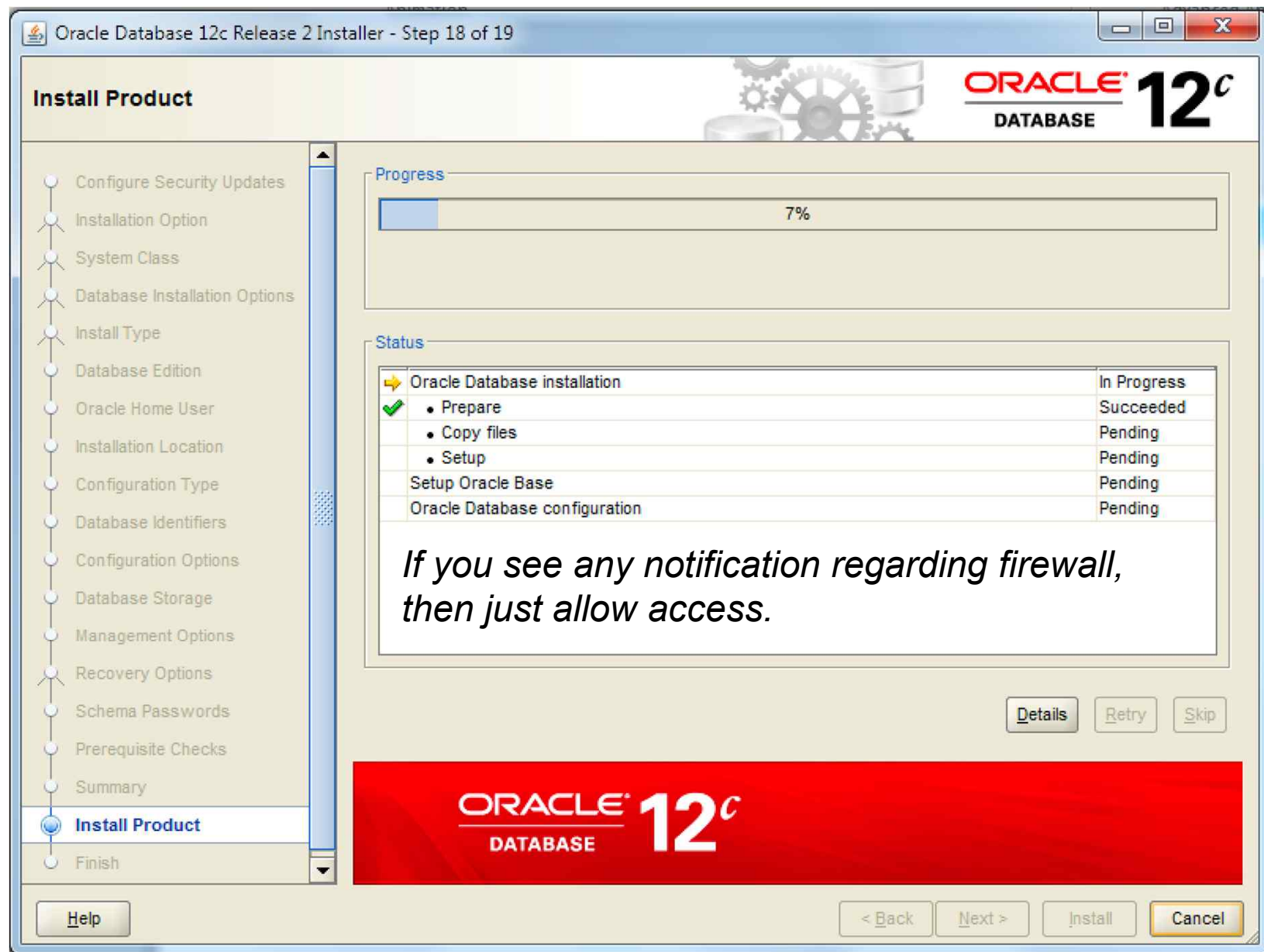
(Step 16 of 19)

[Performing Prerequisite Checks]



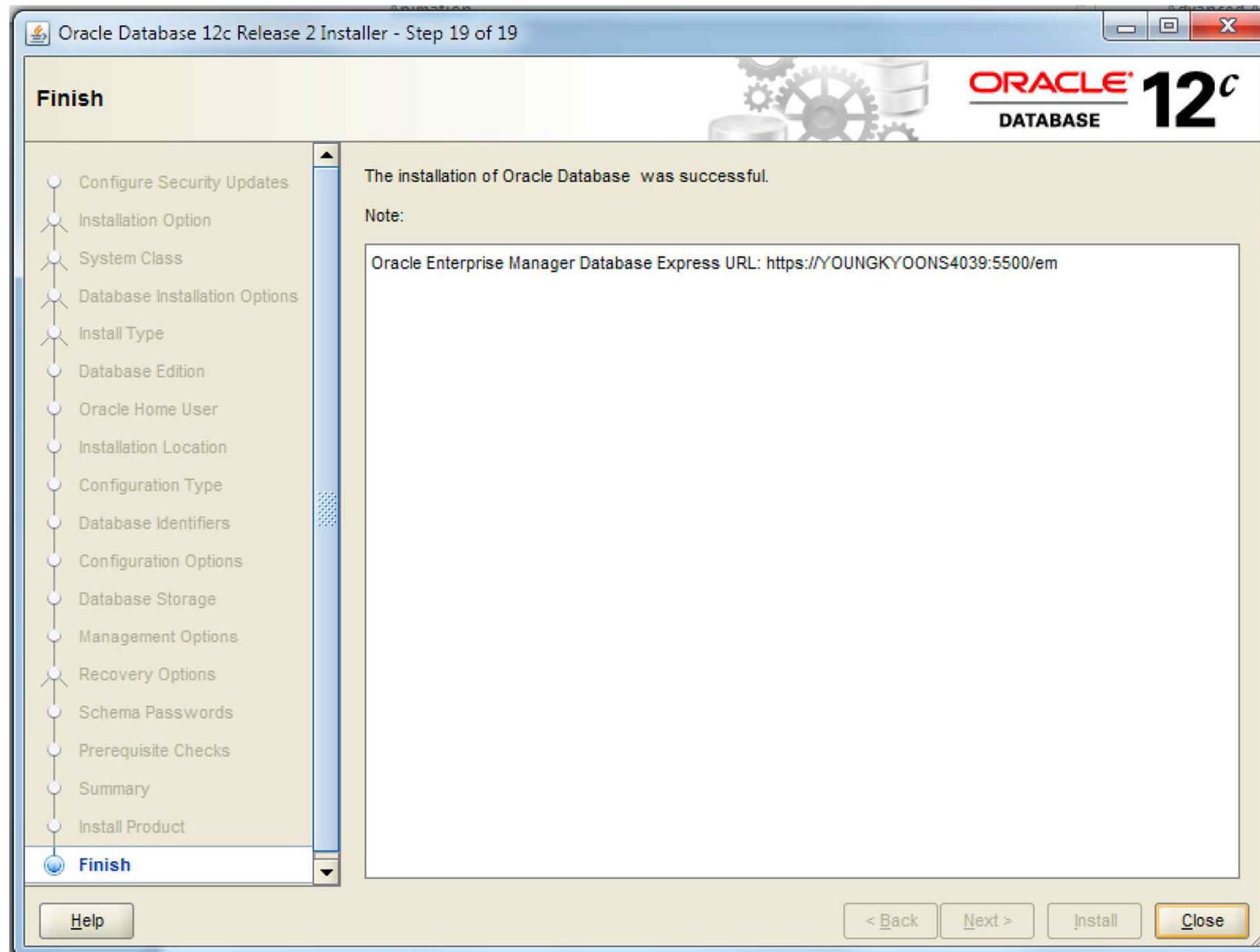
(Step 17 of 19)

[Viewing the Summary Report of This Installation]



(Step 18 of 19)

[Progress Monitoring]

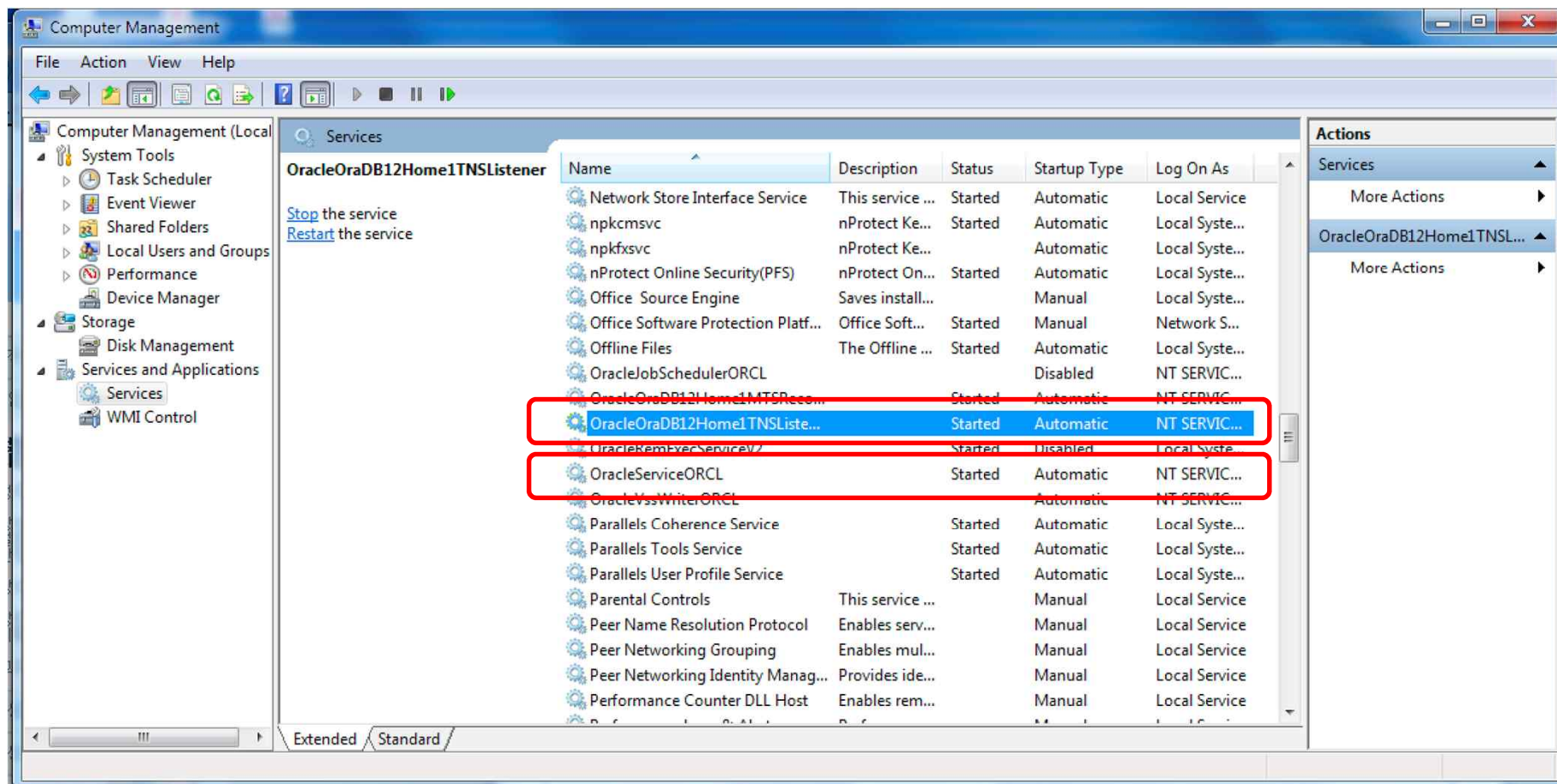


(Step 19 of 19)

[Completed Installation]

Oracle Start and Stop

- [Start] -> [Search] -> Type in 'Computer Management'.



Lab #1: Submission

- Deadline: **noon**
- Submission: none, but ...
 - Show to a tutor that you have finished installing the Oracle DBMS on your workstation as shown in slide 36.
 - Once done, raise your hand, and the tutor will come to you to see if your DBMS is well installed.
- Evaluation: **success** (S) / **failure** (F)