



مراحل نصب ساده

# **Oracle Database 12c**

روى Windows

تهيه كننده : شكوفه رام



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### ۱. مقدمه

در این مستند مراحل نصب ساده Oracle Database 12c ارائه شده است.

لازم به ذکر است در ابتدای مستند با استفاده از اطلاعات مندرج در مستندات شرکت Oracle پیش نیازهای مورد نظر برای ن<mark>صب</mark> نرم افزار استخراج و ذکر شده است .





- ۲. پیش نیازهای سخت افزاری و نرم افزاری
  - ۲٫۱. پیش نیازهای Platform ی

برای اجتناب از هر گونه خطا و ناسازگاری بین نسخه های موجود ویندوز و Oracle Database 12c پیشنهاد بر این است تا روی ویندوز 7 نسخه 64 بیتی نصب انجام شود در غیر اینصورت باید طبق اطلاعات زیر (استخراج شده از Oracle Metalink ) سازگاری بین محصولات تامین گردد.

#### 12.1

- OS versions and minimum levels:
- Windows 2012 R2 (12.1.0.2 only)
- Windows 2012 (12.1.0.1 certified as single instance only)
- Windows 2008
- Windows 2008 R2
- Windows 7
- Windows 8
- Windows 8.1 (12.1.0.2 only)
- Windows 10 (12.1.0.2 only)

۳. مراحل نصب نرم افزار

در این بخش مراحل نصب با استفاده از تصاویر هر مرحله به ص<mark>ورت ق</mark>دم به قدم نمایش دا<mark>ده می</mark> شود.

- 1. Copy media to system and unzip
- 2. This creates a "database" directory

Go to the database Directory

3. Run the installer

Setup.exe



#### Oracle Database 12c: Simple Installation on Windows



🏭 l 💽 🛄 👳 l	Application Tools	database	_ <b>D</b> X
File Home Share	View Manage		~ <b>(</b> )
€ 🗇 ▼ ↑ 퉬 ▶ 12	'c ► database ►	✓ C Search databa	ase 🔎
🚖 Favorites	Name	Date modified Type	Size
🛄 Desktop	\mu install	9/11/2014 6:38 AM File folder	
〕 Downloads	퉬 response	9/11/2014 10:39 AM File folder	
📃 Recent places	퉬 stage	9/11/2014 10:41 AM File folder	
	🌆 setup.exe	5/24/2012 11:56 PM Application	94 KB
🥃 Libraries 👰 Computer 🏪 Local Disk (C:) 🧫 D (D:)	💽 welcome.html	2/6/2013 10:25 AM Firefox HTML D	ос 1 КВ
<ul> <li>Network</li> <li>5 items   1 item selected 1</li> </ul>	93.9 KB		

4. Unselect check box for receiving oracle support updates, click next

Source Database 12c Release 1 Installer - Step 1 of 10		
Configure Security Updates		<b>12</b> <sup>C</sup>
Configure Security Updates	Provide your email address to be informed of security issues, install the product and initiate configuration manager. <u>View details</u> .	
Installation Option Grid Installation Options	Email: Easier for you if you use your My Oracle Support email addr	ress/username.
Oracle Home User Selection	✓ I wish to receive security updates via My Oracle Support.	
Installation Location	My Oracle Support Password:	
Prerequisite Checks		
Install Product		
ບໍ່ Finish		
Help	< Back Next >	nstall Cancel





5. Accept warning about security notifications, click yes



6. In the **Installation Options** page, Select Create and configure a database. Click on **Next** to continue

<u>\$</u>	Oracle Database 12c Release 1 Installer - Step 2 of 10		
Select Installation Option			
Configure Security Updates	Select any of the following install options.		
Installation Option	Oreate and configure a database		
Grid Installation Options	O Install database software only		
🕺 Install Type			
Oracle Home User Selection	O <u>U</u> pgrade an existing database		
unstallation Location			
Prerequisite Checks			
y Summary			
Install Product			
J Finish			
Help	< Back	Next > Install Cancel	





7. In the System Class page, select Server Class as we are installing the database on a Server. Click on Next to continue.

<u></u>	Oracle Database 12c Release 1 Installer - Step 3 of 9
System Class	
Configure Security Updates Installation Option System Class Oracle Home User Selection Typical Installation Prerequisite Checks Summary Install Product Finish	<ul> <li>▶ Desktop class</li> <li>Choose this option if you are installing on a laptop or desktop class system. This option includes a starter database and allows minimal configuration.</li> <li>♥ ● Derver class</li> <li>Choose this option if you are installing on a server class system, which Oracle defines as a system used in a production data center. This option allows for more advanced configuration options.</li> </ul>
Help	< Back Next > Install Cancel

8. In the Installation Type page, select Single instance database installation. Click on Next to continue

<u>لا</u>	Oracle Database 12c Release 1 Installer - Step 4 of 11
Grid Installation Options	
<u>Configure Security Updates</u>	Select the type of database installation you want to perform.
Installation Option	Single instance database installation
🙏 <u>System Class</u>	Oracle Real Application Clusters database installation
Grid Installation Options	♀ ○ Oracle RAC One Node database installation
M Install Type	
Oracle Home User Selection	
Installation Location	
Prerequisite Checks	
y Summary	
unstall Product	
U Finish	
Help	< <u>B</u> ack <u>N</u> ext > Install Cancel





9. In the **Product Languages** pages page select English. Click on **Next** to continue

<u>\$</u>	Oracle Database 12c Release 1 Installer - Step 6 of 13	×
Select Product Languages		0
<ul> <li>Configure Security Updates</li> <li>Installation Option</li> <li>System Class</li> <li>Grid Installation Options</li> <li>Install Type</li> <li>Product Languages</li> <li>Database Edition</li> <li>Oracle Home User Selection</li> <li>Install Product</li> <li>Summary</li> <li>Install Product</li> <li>Finish</li> </ul>	Select the languages in which your product will run.          Available languages:       Selected languages:         Arabic       English         Bengali       English         Brazilian Portuguese       Bulgarian         Canadian French       Image: I	
Help	< Back Next > Install Cance	5

#### 10. In the Database Edition page, select Enterprise Edition .Click on Next to continue

<u>م</u>	Oracle Database 12c Release 1 Installer - Step 7 of 13
Select Database Edition	
Configure Security Updates Installation Option System Class Crid Installation Options Install Type Product Languages Database Edition Oracle Home User Selection Installation Location Prerequisite Checks Summary Install Product Finish	<ul> <li>Which database edition do you want to install?</li> <li>Interprise Edition (6.058)</li> <li>Oracle Database 12c Enterprise Edition is a self-managing database that has the scalability, performance, high availability, and security features required to run the most demanding, mission-critical applications.</li> <li>Standard Edition (5.508)</li> <li>Oracle Database 12c Standard Edition is a full-featured data management solution ideally suited to the needs of medium-sized businesses. It includes Oracle Real Application Clusters for enterprise-class availability and comes complete with its own Oracle Clusterware and storage management capabilities.</li> <li>Standard Edition Qne (5.508)</li> <li>Oracle Database 12c Standard Edition One is a full-featured data management solution ideally suited to the needs of small and medium-sized businesses.</li> <li>Personal Edition (4.8568)</li> <li>Supports single-user development and deployment that requires full compatibility with Oracle Enterprise Edition 12c.</li> </ul>
Help	< Back Next > Install Cancel





11. In the **Oracle Specify User** page, select second option. Enter the values for **username** and **password** arbitrarily. Click on **Next** to continue

<u>\$</u>	Oracle Database 12c Release 1 Installer - Step 8 of 13		
Specify Oracle Home User			
Configure Security Updates	Oracle recommends that you specify a standard Windows User Account (not an Administrator account) to install and configure the Oracle Home for enhanced security. This account is used for running the Windows Services for the Oracle Home. Do not log in using this account to perform administrative tasks.		
Grid Installation Options	Liser Name:		
Oracle Home User Selection	<u>Create New Windows User</u>		
Installation Location Prerequisite Checks Summary Install Product Finish	Uger Name: rran Pgssword:  Pgssword:  Cgnfirm Password:  The newly created user is denied Windows logon privileges. Use Windows Built-in Account		
	<pre></pre>		

12. In the **Installation Location** page, select the path to place all Oracle Software and configuration files. Enter the values for **Oracle Base** and **Software Location**. Click on **Next** to continue

<u></u>	Oracle Database 12c Release 1 Installer - Step 9 of 13
Specify Installation Location	
Configure Security Updates  Installation Option  System Class Grid Installation Options Install Type Product Languages	Specify a path to place all Oracle software and configuration-related files installed by this installation owner.         This location is the Oracle base directory for the installation owner.         Qracle base:       D:DevPrograms/ora12c         Specify a location for storing Oracle database software files separate from database configuration files in the Oracle base directory.
Database Edition     Oracle Home User Selection     Installation Location	Software location D: DevPrograms/ora12c/product/12.1.0/dbhome_1
Prerequisite Checks Summary Install Product Finish	
Help	< Back Next > Install Cancel





- \_ 0 Oracle Database 12c Release 1 Installer - Step 10 of 20 х ORACL Select Configuration Type DATABASE Select the type of database that you want to create Configure Security Updates Installation Option 💡 💿 General Purpose / Transaction Processing A starter database designed for general purpose use, or for transaction-heavy applications. System Class Grid Installation Options O Data Warehousing Install Type A starter database optimized for data warehousing applications. Product Languages Database Edition Oracle Home User Selection Installation Location Configuration Type Database Identifiers Database Storage Install Product < Back <u>N</u>ext > Cancel Help
- 13. In the Configuration Type page, select General Purpose/Transaction Processing. Click on Next to continue

14. In this step, Provide appropriate name for SID and DB name. If the installer asks whether you create Plugin or not, Do not select: Create as Container Database option.

<u>\$</u>	Oracle Database 12c Release 1 Installer - Step 11 of 20
Specify Database Identifiers	
Configure Security Updates Installation Option System Class Grid Installation Options Install Type Product Languages Database Edition Oracle Home User Selection Installation Location Configuration Type Database Identifiers Configuration Options Database Storage Management Options Recovery Options Schema Passwords Prerequisite Checks Summary Install Product	Provide the identifier information required to access the database uniquely. An Oracle database is uniquely identified by a Global database name, typically of the form "name domain". A database is referenced by atteast one Oracle Instance which is uniquely identified from any other instance on this computer by an Oracle system identifier (SD). Global database name: Qracle system identifier (SID): db12c Create as Container database Creates a database container for consolidating multiple databases into a single database and enables database virtualization. Pluggable database name:
	< Back Next > Install Cancel





15. In the **Configuration Options-> Memory** tab, update the default values if required.

Solution Oracle Database 12c Release 1 Installer - Step 12 of 20		
Specify Configuration Opt	tions	DATABASE 12C
Configure Security Updates     Installation Option     System Class     Grid Installation Options     Install Type     Product Languages     Database Edition     Oracle Home User Selection     Installation Location     Configuration Type     Database Identifiers     Configuration Options     Database Storage     Management Options     Recovery Options     Schema Passwords	▲ Memory Character sets Enabling Automatic Memory M the system global area (SGA) database memory target size be sized manually. ✓ Enable Automatic Memory Allocate memory. 256	Samgle schemas         Ianagement allows the database to distribute memory automatically between and the program global area (PGA), based on user-specified overall if automatic memory management is not enabled, then the SGA and PGA must         Management         Iss8       4095         SGA target:       AUTO         Management         SGA target:       AUTO         Management         Target database memory:         1858
Prerequisite Checks Summary Install Product	-	
		< Back Next > Install Cancel

16. In the Configuration Options-> Character Sets tab, Select User Unicode option .Click on Next to continue





<u></u>	Oracle Database 12c Release 1 Installer - Step 12 of 20
Specify Configuration Op	
Configure Security Updates     Installation Option     System Class     Grid Installation Options     Install Type     Product Languages     Database Edition     Oracle Home User Selection     Installation Location     Configuration Type     Database Identifiers     Configuration Options     Recovery Options     Schema Passwords     Prerequisite Checks     Summary     Install Product	<ul> <li>Memory Character sets Sample schemas</li> <li>The database character set determines how character data is stored in the database.</li> <li>Use the gefault Character set for this database is based on the language setting of this operating system: WEBMSWIN1252.</li> <li>Use Unicode (AL32UTF8) Setting character set to Unicode (AL32UTF8) enables you to store multiple language groups.</li> <li>Chgose from the following list of character sets Select Database character set: Unicode standard UTF-8 AL32UTF8</li> </ul>
Help	< Back Next > Install Cancel

17. In the Configuration Options - > Sample Schemas, Select Install Sample schemas option. Click on Next to continue

<u>ی</u>	Oracle Database 12c Release 1 Installer - Step 12 of 20
Specify Configuration Op	
Configure Security Updates Installation Option System Class Grid Installation Options Install Type Product Languages Database Edition Oracle Home User Selection Installation Location Configuration Type Database Identifiers Octabase Identifiers Configuration Options Recovery Options Schema Passwords Prerequisite Checks Summary Install Product	<ul> <li>Memory Character sets Sample schemas</li> <li>You can choose to create a starter database with or without sample schemas. Note that you can plug in the sample schemas to your existing starter database after creation. See "Help" for more details.</li> <li>Create database with sample schemas</li> </ul>
Help	< Back Next > Install Cancel



مدرسہ اوراکل

18. Follow next stpes based on above pictures:







19. In the **Specify Recovery Options** page select the appropriate option.

<u></u>	Oracle Database 12c Release 1 Installer - Step 15 of 20	D X
Specify Recovery Option		12 <sup>°</sup>
Configure Security Updates Installation Option System Class Grid Installation Options Install Type	Enable or disable recovery for your database. If you choose to enable recovery, then the location specused as recovery area storage.	sified will be
Product Languages     Database Edition     Oracle Home User Selection     Installation Location     Configuration Type     Database Identifiers     Configuration Options     Database Storage     Management Online	Recovery area location: D:DevProgramstora12ctrecovery_area	Browse
Management Options     Recovery Options     Schema Passwords     Prerequisite Checks     Summary     Install Product	< Back Next > [nstall	Cancel

20. In the Schema Passwords page, Select appropriate option to and specify the passwords for schema accounts. Click on **Next** to continue.

<u>\$</u>	Oracle Database 12c Release 1 Installer - Step 16 of 20
Specify Schema Passwords	
Configure Security Updates Configure Class Class Configure Class	The starter database contains pre-loaded schemas, most of which have passwords that are expired and locked at the end of installation. After installation is complete, you must unlock and set new passwords for those accounts you want to use. Schemas used for database management and postinstallation functions are left unlocked, and passwords for these accounts will not expire. Specify the passwords for these accounts.
Configuration Options	Password?
Management Options     Recovery Options	
Schema Passwords     Prerequisite Checks     Summary     Install Product	Messages: APassword:[INS-30011] The ADMIN password entered does not conform to the Oracle recommended standards.
Help	< Back Next > Install Cancel





21. In the **Summary** page, verify the details and **Save the Response File** if required. Click on **Install for** Oracle database 12c installation.

<u>\$</u>	Oracle Database 12c Release 1 Installer - Step 18 of 20
Summary	
Configure Security Updates Installation Option System Class Orid Installation Options Install Type Product Languages Database Edition Oracle Home User Selection Installation Location Configuration Cytions Database Identifiers. Configuration Options Database Storage Management Options Schema Passwords Prereguiste Checks Summary Install Product Finish	Oracle Database 12: Release 1 Installer     Oracle Jostabase 12: Release 1 Installer     Oracle Jostabase 12: Release 1 Installer     Oracle Home User Selection: tran [Edg]     Oracle Advanced installation (Create and configure a database) [Edg]     Oracle Section: D: VDevPrograms/oral 2c (Edg)     Software location: D: VDevPrograms/oral 2c (Edg)     Oracle System identifier (SID): db12c [Edg]     Oracle system identifier (SID): db12c [Edg]     Automatic memory: 1858 MB [Edg]     Automatic memory management option: TRUE [Edg]     Database character set: Unicode standard UTF-8 (AL32UTF8) [Edg]     Management method: Database express [Edg]     Database file location: D: VDevPrograms/oral 2c/oradata [Edg]     Database file location: D: VDevPrograms/oral 2c/oradata [Edg]     Recovery: Enabled [Edg]     Recovery: Enabled [Edg]
Help	< Back Next > Instal Cancel

22. The Install Product page, Installation status will be displayed. This will take some time to complete

<u>s</u>	Oracle Database 12c Release 1 Installer - Step 19 of 20	
Install Product		DATABASE 12
Configure Security Updates	Progress	
Installation Option	8%	
🔍 System Class	Extracting files to 'D: \DevPrograms\ora12c\product\12.1.0\dbhome_1'.	
Grid Installation Options		
🖌 Install Type	-Status	
Product Languages		
Database Edition	Oracle Database installation     Prepare	In Progress Succeeded
<ul> <li>Oracle Home User Selection</li> </ul>	-> Copy files	In Progress
	Setup     Setup	Pending
	Oracle Database configuration	Pending
Configuration Type		_
Database Identifiers		
Configuration Options		
🔶 Database Storage		
Management Options		
Recovery Options		
Schema Passwords		
↓ ♀ Prerequisite Checks		Details Retry Sk
y Summary		
install Product		
Finish	DATABASE	
Hala		Next > Detail Carr



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<u>\$</u>	Oracle Database 12c Release 1 Installer - Step 19 of 2	o 🕒	. 🗆 X
Install Product		DATABASE	<b>12</b> <sup>c</sup>
Configure Sec	Database Configuration Assistant	X	
System Class Clone database	"db12c" creation in progress		
	8%		
Product Langu			
Database Editi			gress eded
Oracle Home L	Steps	Status	gress
Copying Creating	and starting Oracle instance	ITProgress	hg Lu
Complet	ing Database Creation		ig ha
Configuration	Pluggable Databases		19
🌞 Database Iden			
Configuration			
O Database Stor			
Management C			
Recovery Opti			
🖞 Schema Pass			
Prerequisite C	Alart on Ston		y <u>S</u> kip
Summary	Mient Log Zich	li	
Install Product			
Finish			
Help	< Back	. Next > Install	Cancel

23. In the **Database Configuration** page. Click **OK** to continue. You can Click Password Management to unlock and set a password for Users you want. Passwords are Case-Sensitive.

٩	Database Configuration Assistant
Database creation complete. Fo D:\DevPrograms\ora12c\cfgtooll	r details check <mark>the logfiles at:</mark> logs\dbca\db12c.
Database Information: Global Database Name: System Identifier(SID): Server Parameter File name:	db12c db12c D:\DevPrograms\ora12c\product(12.1.0\dbhome_1\database\spfiledb12c.ora
EM Database Express URL:	https://WIN-QNT99J7F24M:5500/em
Note: All database accounts exc to view a complete list of locked Management window, unlock on default passwords immediately	ept SYS and S <mark>YSTEM are</mark> locked. Select the Password Management button accounts or to manage the database accounts. From the Password ily the accounts you will use. Oracle strongly recommends changing the after unlocking the a <mark>ccount</mark> .
	Password Management
	QK





24. In the Finish page, the installation status will be displayed. You can access the Enterprise Manager Database Control URL displayed in the Finish page.

<u>\$</u>	Oracle Database 12c Release 1 Installer - Step 20 of 20
Finish	
<ul> <li>Configure Security Updates</li> <li>Installation Option</li> <li>System Class</li> <li>Grid Installation Options</li> <li>Install Type</li> <li>Product Languages</li> <li>Database Edition</li> <li>Oracle Home User Selection</li> <li>Installation Location</li> <li>Configuration Type</li> <li>Database Identifiers</li> <li>Configuration Options</li> <li>Database Storage</li> <li>Management Options</li> <li>Schema Passwords</li> <li>Prerequisite Checks</li> <li>Summary</li> <li>Install Product</li> </ul>	The installation of Oracle Database was successful. Note: Your database configuration files have been installed in D:/DevPrograms/ora12c/product/12.1.0/dbhome_1. Be cautious not to accidentally delete these configuration files.
Finish	
Help	< Back Next > Install Gose





## ۴. روش ساخت یک Connection در Oracle SQL Developer

1. Open Oracle SQL Developer Tool then press green plus symbol on the left top corner ( shown below)



2. Fill the blank spaces using correct Database information of relative connection, for example 'HR' connection.

Connection Name	Connection Details	Connection Name	HR
		<u>U</u> sername	HR
		Password	Your HR User's Password
		Save Password	
		Oracle Acc	ess
		Connection Type	Basic  Role default
		Hostname	localhost
		Po <u>r</u> t	1521
		ID SID	Your DB SID provided while installation
		Service name	
		OS Authentic	ation Creberos Authentication Proxy Connection
tatue : Success			

3. After that click on 'Save' and then 'Connect' button. (you can check your connection using 'Test' button)