1. Instalasi Oracle & Membuat Starter Database

Pada bab ini akan kita bahas cara melakukan instalasi software Oracle dan membuat starter database dengan menggunakan Oracle Universal Installer dan juga melakukan upgrade database versi sebelumnya ke versi yang sesuai dengan software saat ini.

Di buku ini menyajikan cara instalasi software database Oracle pada sistem operasi Windows, untuk instalasi di sistem operasi Linux, silahkan liat di lampiran A.

1.1 System Requirement

Sebelum melakukan proses instalasi, installer OUI akan melakukan pengecekan terhadap kebutuhan minimal spesifikasi mesin server secara otomatis. Jika spesifikasi mesin tidak memenuhi kebutuhan minimal akan ditampilkan *error message*. Spesifikasi minimal sangat tergantung dari mesin dan sistem operasi dimana software database Oracle akan diinstall, tetapi secara umum, spesifikasi minimal yang diperlukan untuk instalasi software database Oracle adalah sebagai berikut:

Hardware:

512 MB physical random access memory (RAM)
1 GB swap space (atau dua kali ukuran RAM, jika ukuram RAM <= 2GB)
400 MB temporary directory (/tmp or \temp)
1.5 GB disk space untuk the Oracle software
1.5 GB disk space untuk the preconfigured database

Untuk software Sistem Operasi, silahkan lihat dokumentasi dari Sistem Operasi yang akan digunakan.

1.2 Instalasi Oracle

Untuk instalasi Oracle diperlukan master software Oracle10g database. Jika belum punya, software tersebut bisa didownload di website Oracle http://www.oracle.com/technology/software/products/database/oracle10g/index.html.

Pastikan anda masuk sebagai user Administrator di sistem operasi Windows.

1. Insert CD-master Oracle10g, tunggu beberapa saat, sampai muncul tampilan seperti ini:



Pilih Install/Deinstall Products, sehingga muncul tampilan seperti dibawah ini:



2. Installer akan menampilkan window Installtion Method seperti dibawah ini.

elect Installation Met	thod				
Basic Installation					
Perform full Oracle Database 10g i	installation with stand	dard config	uration optio	ns requiring mil	nimal input.
This option uses file system for sto	prage, and a single p	assword fo	r all databas	e accounts.	
_					
Oracle Home Location: D:W	oracle\product\10.2.0	\db_1			Browse
Installation Type:	terprise Edition (1.3G	B)			
Create Starter Database ((additional 720MB)				
Ginhal Database Name:	bisnis bandung cor	n			
Datahase Password	[onfirm Paccu	word word	
This passwo	rd is used for the SVS	SYSTEM S	YSMAN and D	BSNMP accounts	6
Advanced Installation					
Allows advanced selections such a	as different password	is for the S	YS, SYSTEM	SYSMAN, and	DBSNMP
accounts, database character set, alternative storage options such as	product languages, a s Automatic Storage I	automated Manageme	backups, cus nt.	stom installation	n, and

Installer memberikan dua pilihan metode instalasi, yaitu **Basic Installtion** dan **Advanced Installation**.

3. Pilih Basic Installation, pada kolom Oracle Home Location akan otomatis terisi. Oracle

Home Location adalah folder tempat software Oracle10g database akan diinstall. Folder ini disebut sebagai ORACLE_HOME. Untuk ORACLE_HOME ini, installer secara default akan memilih partisi yang free-spacenya paling banyak, dalam instalasi ini foldernya adalah C:\Oracle\Product\10.2.0\db_1. Pada kolom Installtion Type, pilih Enterprise Edition. Pilih (check) pada pilihan Create Starter Database dan ketik bisnis.bandung.com untuk isian Global Database Name. Click Next

4. Installer akan melakukan verifikasi terhadap mesin server, untuk memastikan spesifikasi mesin sudah sesuai dengan kebutuhan minimal terhadap setting dan konfigurasi database yang diinginkan. Perhatikan dan sesuaikan spesifikasi mesin jika ada *error-message*.

Oracle Universal Installer: Product-Specific Prerequi	site Checks			
Product-Specific Prerequisite Chec	ks			
The Installer verifies that your environment meets all of the n configuring the products that you have chosen to install. You are flagged with warnings and items that require manual ch checks, click the item and review the Jetails in the box at the	ninimum requirements f must manually verify an ecks. For details about p bottom of the window.	for in Id co Derfo	stalling and nfirm the items rming these	s that
Check	Туре		Status	
Checking physical memory requirements	Automatic	R	Succeeded	
Checking Network Configuration recuirements	Automatic		Warning	P
1 warnings, 0 requirements to be verified.			Retry	Stop
Check complete. The overall result of this check is: Passed				6
Checking Network Configuration requirements Check complete. The overall result of this check is: Failed <	<<<			
Help Installed Products Bac	k Next (ns	tall Ca	ancel
ORACLE				

Click Next, jika verifikasi complete

5. Selanjutnya akan muncul **Summary window**, untuk verifikasi komponen-komponen yang akan diinstall.

a Oracle Universal Installer: Summary	
Summary Oracle Database 10g 10.2.0.1.0	
- Global Settings	<u> </u>
Source: C:\TEMP\database\ins:all\./stage/products.xml	27
-Oracle Home: C:\oracle\product\10.2.0\db_1 (OraDb10g_home1)	
Installation Type: Enterprise Ecition	
-Product Languages	
English	
C:1 Required 696MB (includes 44MB temporary) : Available 26.01GB	
⊖-New Installations (114 products)	
-Agent Required Support Files 10.2.0.1.0	
-Assistant Common Files 10.2.0.1.0	
-Bali Share 1.1.18.0.0	
-Buildtools Common Files 10.2 0.1.0	
Character Dat Misratian Litility 10.2.0.1.0	
Help Installed Products Back Next	(Install) Cancel
ORACLE	N.

Click Install

6. Akan muncul progress window installtion

🕷 Oracle Universal Installer: Install	
Install Installing Oracle Database 10g 10.2.0.1.0	10 ^g
Copying files for 'Oracle Core Required Support Files 10.2.0.1.0 ' Setup pending Configuration pending copying 'regsvr32.exe' 43%	The Self-Managing Database • Automatic performance diagnosis • Guided application and SQL tuning • Proactive space management
Stop installation You can find a log of this install session at: C:Program FilesVOracleVInvertoryVlogsVinstallActions2005-11-29_12-55-00PM.log	5
Help (Installed Products) Back Next	Install Cancel

 Pada akhir instalasi, installer akan melakukan konfigurasi jaringan, membuat sterter database dan konfigurasi tool iSQL*Plus. Pada saat konfigurasi ini, installer akan memunculkan Configuration Assistant window.

Oracle Universal Installer: Configuration Assista	ants	
Configuration Assistants	nd start the components y	ou selectad earlier.
Tool Name	Status	Туре
Oracle Database 10g		
C Oracle Net Configuration Assistant	Succeeded	Recommended
🔜 Oracle Database Configuration Assistant	In progress	Recommended
☑ ISQL*Plus Configuration Assistant	Pending	Optional
Details (see full log at C:\Program Files\Oracle\Invento	oryllogs\installActions2006	Betry Stop
Configuration assistant "Oracle Net Configuration Ass Output generated from configuration assistant "Oracle	sistant" succeeded e Database Configuration	Assistant':
Help (Installed Products)	Back Next) (Install) (Cancel

8. Tampilan pada saat Create Starter Database

🛱 Database Configuratio	n Assistant
	Copying database files Creating and starting Oracle instance Completing Database Creation
	Clone database creation in progress
	Log files for the current operation are located at: C:loraclelproductf: 0.2.0kb_11cfgtoollogskdbcalorcl

9. Jika proses Create Database sudah selesai, click **Password Management** untuk membuka lock beberapa user seperti SH, OE dan HR.

http://www.configuration Assi	istant X		
Database creation complete. C \db_1\cfgtoollogs\dbca\bisnis f	check the logfiles at D:\oracle\product\10.2.0 or details.		
Database Information: Global Database Name: System Identifier(SID): Server Parameter Filename:	bisnis.bandung.com bisnis Ditoracle\product\10.2.0\db_1/dbs/spfilebisnis.ora		
The Database Control URL is I	nttp://imola02:1158/em		
Note: All database accounts except SYS, SYSTEM, DBSNMP, and SYSMAN are locked. Select the Password Management button to view a complete list of locked accounts or to manage the database accounts (except DBSNMP and SYSMAN). From the Password Management window, unlock only the accounts you will use. Oracle Corporation strongly recommends changing the default passwords immediately after unlocking the account.			
	Password Management)		
	ок		

10. Unlock user SH, OE dan HR dan ganti password sesuai nama user, ini untuk keperluan tutorial saja. Tidak harus dilakukan. Sebagai contoh, Unlock user **SH** dan ketik **SH** pada kolom **New Password** dan **Confirm Password**. Click OK

🗣 Password Managem	ent			×
Lock / unlock database (user accounts and /	or change the default p	asswords:	
User Name	Lock Account?	New Password	Confirm Password	
OLAPSYS	×			
MDDATA	×			
DX.	×			
SH		**	**	
DIP	×			- 11
OE		**	**	
SCOTT	×			
HR		**	**	
TSMSYS	×			8
BI	×			
PM	×			-
	OF	Cancel Help		

11. Click OK lagi

batabase Configuration Assist	tant 🔀
Database creation complete. Ch \db_1\cfgtoollogs\dbca\bisnis for	eck the logfiles at D:\oracle\product\10.2.0 r details.
Database Information: Global Database Name: B System Identifier(SID): B Server Parameter Filename: D	oisnis.bandung.com oisnis D:toracletproduct(10.2.0tdb_1/dbs/spfilebisnis.ora
The Database Control URL is ht	tp://imola02:1158/em
Note: All database accounts exc the Password Management butto database accounts(except DBS) unlock only the accounts you will default passwords immediately :	ept SYS, SYSTEM, DBSNMP, and SYSMAN are locked. Select on to view a complete list of locked accounts or to manage the IMP and SYSMAN). From the Password Management window, use. Oracle Corporation strongly recommends changing the after unlocking the account.
	Password Management

12. Sebelum mengakhiri proses instalasi perhatikan dan ingat konfigurasi di **End of Installtion window**, bila perlu copy ke file lain. Click Exit



13. Click Yes, untuk konfirmasi exit.



1.3 Post Installation

Setelah proses instalasi selesai, DB control atau Enterprise Manager sudah bisa digunakan untuk melakukan manajemen database Oracle10g, tetapi belum semua feature yang ada di DB control berjalan maksimal, seperti backup, scheduling, startup dan shutdown database. Agar DB control berfungsi maksimal harus dibuat user di sistem operasi yang merupakan anggota dari group ORA_DBA. Berikut ini adalah proses pembuatan user di sistem operasi. Proses ini dilakukan di Windows XP.

1. Click Start > Settings > Control Panel. Pilih Administrative Tools.



2. Pilih Computer Management

🕯 Administrative Tools		(
File Edit View Favorite	s Tools Help		1
🔇 Back 🔹 🕥 🕤 💋	Search 📂 Folders		
Address 🙀 Administrative Too	ols		Y
Folders	× Name 🔺	Size	Туре
Desktop	Component Services	2 KB	Shortcut
E 🕒 My Documents	Computer Management	2 KB	Shortcut
a 夏 My Computer	Data Sources (ODBC)	2 KB	Shortcut
⊞ 🥪 label0 (C;)	Event Viewer	2 KB	Shortcut
I A DVD/CD-RW Drive (D	2) 🔂 Local Security Policy	2 KB	Shortcut
🖃 🔂 Control Panel	Microsoft .NET Framework 1	1 KB	Shortcut
Administrative To	ols 🛛 🕂 Microsoft .NET Framework 1	2 KB	Shortcut
Tonts	Performance	2 KB	Shortcut
Network Connect Printers and Pax Scanners and Pax Scanners and Cax Scheduled Tasks District Comments District Comments D	ions 🖗 Services 15 meras	2 KB	Shortcut
	4		

3. Pilih Local Users and Group



4. Pada panel kanan, click kanan mouse pada item Users dan pilih New User



5. Pada New User window, isikan :

User name: **oracle** Description: **Oracle Administration User** Password: <a secure password> Confirm: <a secure password>

Pada contoh ini password yang digunakan oracle.

Deselect User must change password at next logon

Click Create

New User	2
User name:	oracle
Full name:	
Description:	Oracle Administration User
Password:	
Confirm passwo	d ••••••
User must cl	lange password at next logon
User cannot	change password
Account is d	vere>pires isabled
	Create Close

6. Click Close jika muncul New User window lagi

New User	? 🛛
User name:	
Full name:	
Description:	
Password:	
Confirm password:	
🗹 User must change pa	word at next logon
User cannot change	sword
Password never expi	
Account is disabled	
	Create

7. Double-click Groups



8. Double-click ORA_DBA



9. Pada screen ORA_DBA click Add

ora_dba Properties	? ×
General	
ra_dba	
Description: Dracle DBA Group	
Members:	
MINT AUTHORITY∖SYSTEM Suleijo	
Add Fernove	
OK Cancel	Apply

10. In the Select Users screen, click **Advanced**.

Select Users	<u>? ×</u>
Select this object type:	
Users or Built-in security principals	Object Types
From this location:	
CP2100	Locations
Enter the object names to select (<u>examples</u>):	
1	Check Names
Advanced	Cancel

11. Click Find Now.

Select Users	? ×
Select this object type: Users or Built-in security principals	Object Types
From this location:	
CP2100	Locations
Common Queries	
Name: Starts with Description: Starts with Disabled accounts Non expiring password Days since last logen:	Columns Find Now Stop
Nassa (EDN) In Folder	Cancel

12. Tekan Ctrl-pilih user **BATCH** dan **oracle** dari daftar yang ada di window bagian bawah. Kemudian click **OK**.

		2
Select this object t	ype:	
Users or Built-in se	ecurity principals	Object Types
From this location:		
CP2100		Locations
Common Queries		
Name:	Starts with 🔻	Columns
Description:	Starts with 💌 📔	
🗖 Disabled ac	counts	Stop
🔲 Non expiring	g password	
Days since last	legen:	
		OK Cancel
ame (RDN)	In Folder	OK Cancel
ame (RDN) BATCH	In Folder	OK Cancel
ame (RDN) BATCH CREATOR G	In Folder	OK Cancel
ame (RDN) BATCH CREATOR G CREATOR G	In Folder	OK Cancel
ame (RDN) BATCH CREATOR G CREATOR O DIALUP desce	In Folder	OK Cancel
ame (RDN) SATCH CREATOR G CREATOR O DIALUP dosen	In Folder CP2100	OK Cancel
ame (RDN) BATCH CREATOR G CREATOR O DIALUP dosen Everyone Guest	In Folder CP2100 CP2100	OK Cancel
ame (RDN) BATCH CREATOR G CREATOR O COLALUP dosen Everyone Guest HaleAcritant	In Folder CP2100 CP2100 CP2100	OK Cancel
ame (RDN) BATCH CREATOR G CREATOR G CREATOR G CALL DIALUP dosen Loset HelpAssistant HoltPASTIVE	In Folder CP2100 CP2100 CP2100	OK Cancel
ame (RDN) (RATCH CREATOR G (CREATOR O (CREATOR O (C	In Folder CP2100 CP2100 CP2100	OK Cancel
ame (RDN) (BATCH CREATOR G CREATOR O DIALUP dosen Everyone Guest HelpAssistant INTERACTIVE LOCAL SERV Meutia	In Folder CP2100 CP2100 CP2100 CP2100 CP2100	OK Cancel
ame (RDN) BATCH CREATOR G COLLUP dosen Everyone Guest HelpAssistant INTERACTIVE LIOCAL SERV Meutia NETWORK	In Folder CP2100 CP2100 CP2100 CP2100 CP2100	OK Cancel
ame (RDN) GREATOR G CREATOR G CREATOR G CALUP dosen Everyone Guest HelpAssistant HINTERACTIVE LOCAL SERV MetwoRK NETWORK S	In Folder CP2100 CP2100 CP2100 CP2100	OK Cancel
Iame (RDN) SBATCH CREATOR G CREATOR O DIALUP dosen Everyone Guest HelpAssistant INTERACTIVE LOCAL SERV Meutia NETWORK S Novi	In Folder CP2100 CP2100 CP2100 CP2100 CP2100	OK Cancel
ame (RDN) BATCH CREATOR G CREATOR G CALUP DIALUP DALUP dosen Everyone Guest HelpAssistant RINTERACTIVE RLOCAL SERV Meutia Meutia NETWORK S Novi oracle	In Folder CP2100 CP2100 CP2100 CP2100 CP2100 CP2100 CP2100	OK Cancel

13. Click OK

Select Users		<u>? ×</u>
Select this object type:		
Users or Built-in security principals		Object Types
From this location:		
CP2100		Locations
Enter the object names to select (examples):		
BATCH; CP2100\oracle		Check Names
Advanced	ОК	Cancel

14. Click OK

ora_dba Properties	<u>? ×</u>
General	
ora_dba	
Description: Oracle DBA Group	- 11
Members:	
INT AUTHORITY\BATCH INT AUTHORITY\SYSTEM Soracle Sutejo	
Add Remove	
OK Cancel A	pply

15. Tutup window Computer Management



Proses selanjutnya adalah menambahkan user oracle ke Security Policy Log on as batch job.

1. Start > Setting> Control Panel > Administrative Tools > Local Security Policy



2. Double-click pada Log on as batch job

😼 Local Security Settings				
File Action View Help				
← → 🗈 🗙 🗗 😼 😫				
Image: Security Settings Image: Security Settings Image: Security Policies Image: Security Options Image: Software Restriction Policies Image: Software Restriction Policies <	Policy / Access this computer from the net Add workstations to domain Add workstations to domain Add workstations to domain Add workstations to a process addust memory quotas for a process Back up files and directories Back up files and directories Bock up files and directories Create a pagefile Create a caken object Create global objects Create global objects Create global objects Debug programs Debug progr	Security Setting Everyone, ASPNET, Administrators, Ben Administrators, Back Everyone, Administrators Administrators Administrators SUPPORT_388945a AspNET Administrators LOCAL SERVICE, NE Administrators SUPPORT_388945a SUPPORT_388945a SUPPORT_388945a		
	tog on locally		~	

3. Double-click Add Users or Groups

Log on as a batch job Properties	<u>? ×</u>
Local Security Setting	
Log on as a batch job	
Administrator SUPPORT_388945a0 Sutejo	
Add User or Group	
OK Cancel Ap	ylqc

4. Click Advanced

Select this object type:	
Users or Built-in security principalsObject Types.	
From this location:	
CP2100 Locations	
Enter the object names to select (<u>examples</u>):	
Check Name	8
Advanced	

5. Click Find Now

Select Users or Groups	<u>? ×</u>
Select this object type: Users or Built-in security principals	Object Types
, From this location: CP2100	Locations
Common Queries Name: Starts with ▼ Description: Starts with ▼ □ Disabled accounts	Columns Find Now Stop
	OK. Cancel

6. Pilih **oracle** dan click **OK**

Select Users a	or Groups			<u>?</u> ×
Select this obje	ect type:			
Users or Built-	in security principals		Obj	ect Types
From this locat	ion:			
CP2100			Lo	ocations
Common Que	eries			
Name:	Starts with 💌		_	Columns
Description	Starts with 💌	, 	-	Find Now
🗖 Disable	d accounts			Stop
🗖 Non exj	piring password			7
Days since	last logon:	~		
			ОК	Cancel
Name (RDN)	In Folder			_
😰 Meutia	CP2100			
SINE I WURK	. 5 CP2100			
	CP2100			
🕵 REMOTE IN	NT			-

7. Click OK

Select Users or Groups	? ×
Select this object type:	
Users or Built-in security principals	Object Types
From this location:	
CP2100	Locations
Enter the object names to select (<u>examples</u>):	
CP2100\oracle	Check Names
Advanced	Cancel

8. Click OK

og on as a batch job Properties	<u>?×</u>
Local Security Setting	
Log on as a batch job	
Administrator CP2100Xoracle SUPPORT_388945a0 Sutejo	
Add User or Group Remove	
OK Cancel	Apply

9. Tutup window Local Security Policy

