
Installation Manual

for

**Groundwater Estimation and Management
System**

Prepared by

Tata Infotech Ltd

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Installation Manual

1. Introduction

Tata Infotech Ltd has developed Groundwater Estimation and Management System (GEMS) software for Central Ground Water Board and eight participating states. GEMS will be installed at Regional Offices, Unit offices of CGWB and the State Data Centers, Unit offices of the participating states.

The GEMS consists of creating database, updating it frequently as and when new data are available after carrying out validation checks on the database and retrieving the data from database when desired. It facilitates data entry, processing, validation, analysis and dissemination of periodic/annual reports on hydrological conditions water resources and development status.

CGWB has defined its locations in terms of the no of nodes supplied to the location and the type of installation to be implemented. Accordingly the software has also been distinguished as Package A, Package B, Package C and Package D.

This manual is to help in installing the GEMS software and all the supporting software necessary for execution of GEMS software.

Package	Hardware
A	8 Workstations and 1 Server
B	5 Workstations and 1 Server
C	2 Workstations
D	2 Workstations

In A Package the workstations and Server will be connected via Switch.

In B Package the workstations and Server will be connected via Hub and Router.

In C & D Packages the two workstations will be connected to each other via peer-to-peer.

2. Software Installation for Package A & B

2.1. Server Installation

- Windows 2000 Server. Make sure that Service Pack3 is loaded
- FTP Server (Installation in Appendix A)

- Oracle 9i Release2, Enterprise Edition for package A and Standard Edition for package B
- DSN Creation

2.2. Client Installation

- Windows 2000 Professional. Make sure that Service Pack3 is loaded
- Oracle 9i Release2, Client
- DSN Creation
- MapInfo 6.5
- SPSS 10.0
- Vertical Mapper 2.6 (Along with hardware lock on Parallel Port of the workstation)
- Vertical Mapper patch to be installed and configured on the client.
- GEMS 1.0 Application Software

3. Software Installation for Package C & D

As there are two machines for these packages

- Oracle 9i Release2, Personal Edition will be installed on one workstation
- Oracle 9i Release2, Client will be installed on other workstation.
- These two workstations will be connected peer-to-peer

3.1. Server Installation

- Windows 2000 Professional. Make sure that Service Pack3 is loaded
- FTP Server (Installation in Appendix A)
- Oracle 9i Release2, Personal Oracle
- DSN Creation
- MapInfo 6.5
- SPSS 10.0
- Vertical Mapper 2.6 (Along with hardware lock on Parallel Port of the workstation)
- Vertical Mapper patch to be installed and configured on the client.
- GEMS 1.0 Application Software

3.2. Client Installation

- Windows 2000 Professional. Make sure that Service Pack3 is loaded
- Oracle 9i Release2, Client
- DSN Creation
- MapInfo 6.5
- SPSS 10.0
- Vertical Mapper 2.6 (Along with hardware lock on Parallel Port of the workstation)

- Vertical Mapper patch to be installed and configured on the client.
- GEMS 1.0 Application Software

4. Installation of Software

This section covers software requirements and installation procedure. The following steps should be followed in the given sequence only

Name of software to be installed	Disk space requirements	Location of Installation
1. Oracle 9i Release2 SERVER	3 GB	On the server at A (Enterprise edition) and B (Standard edition) packages
2. Oracle 9i Release2 CLIENT	350 MB	On the client machine at all the packages
3. Oracle 9i Release2 Personal Oracle	1.5GB	On one of the client machine (which will also act as server) at C & D packages
4. MapInfo 6.5	200 MB	All the client machines at all the packages
5. Vertical Mapper 2.6(with VM Patch)	50 MB	All the client machines at all the packages
6. SPSS 10.1	150 MB	All the client machines at all the packages
7. GEMS 1.0	550 MB	the client machines at all the packages

4.1. MapInfo Installation

Step 1 : Insert the MapInfo Professional 6.5 CD. The installation screen starts automatically. If it does not start automatically then browse the CD and double-click on Setup.exe.

Step 2 : Click on Install Products and then click on MapInfo Professional. The installation wizard starts. Follow the steps and complete the Installation.

Step 3 : Click on DBMS support and the installation wizard starts. Follow the steps and complete the installation.

4.2. Vertical Mapper Installation

Step 1 : Make sure that Map Info is loaded and working. Insert the Vertical Mapper CD. The installation screen starts automatically. If it does not start automatically then browse the CD and double-click on Setup.exe

Step 2 : The installation wizard starts. Follow the steps and enter the License key to complete the installation

Step 3 : VM Patch (Browse the CD, click on VM Patch\Win_NT\
Setup86.exe Install the Sentinel Driver and click Ok. Then Configure
Sentinel Driver and click Ok to configure the software.)

Note : The Vertical Mapper software comes with a hardware lock which
needs to be fitted in the parallel port of the PC. If the hardware lock is
not fitted, Vertical Mapper will not work.

4.3. SPSS Installation

Step 1: Insert the SPSS 10.1 CD. The installation screen starts automatically. If it
does not start automatically then browse the CD and double-click on
Setup.exe.

Step 2: Select Install SPSS option. The wizard starts. Follow the steps and enter
the License key and Click Update button and then Next button to
complete the installation

Step 3: Select Install Smart Viewer option. The wizard starts. Follow the steps
same as above.

4.4. Oracle Installation

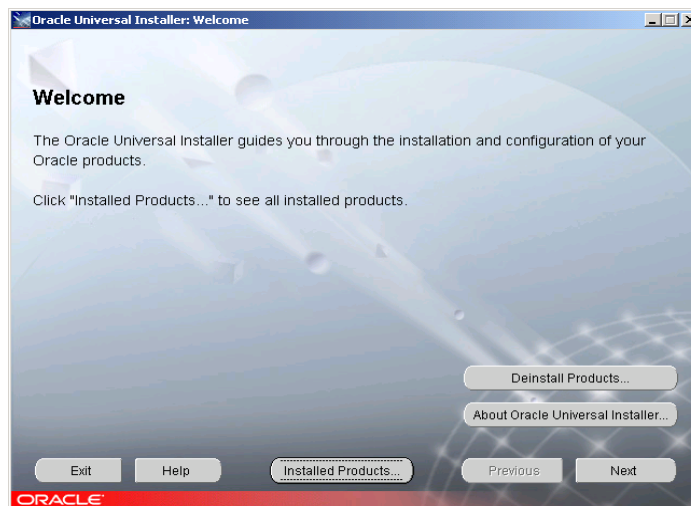
4.4.1. Oracle 9i Release2 Server Installation

Step 1: Insert disk 1 of 3 from the Oracle 9i Release2 Server CD's, and the
installation of Oracle 9i starts

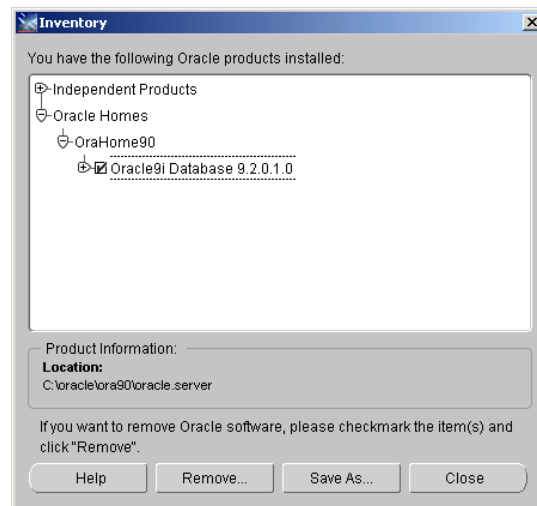
Step 2: Click on Install / Deinstall products and the Oracle Universal Installer:
Welcome screen appears.



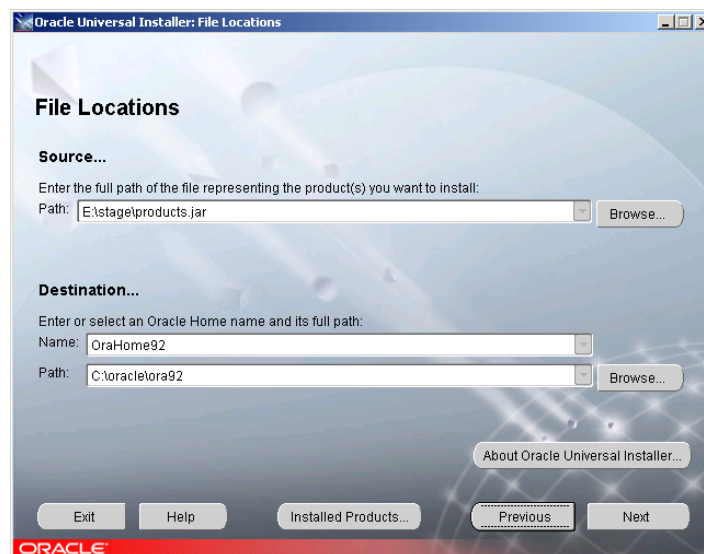
Step 3: On “Oracle Universal Installer: Welcome” screen click on Installed Products and see whether any Oracle Product is already installed or not.



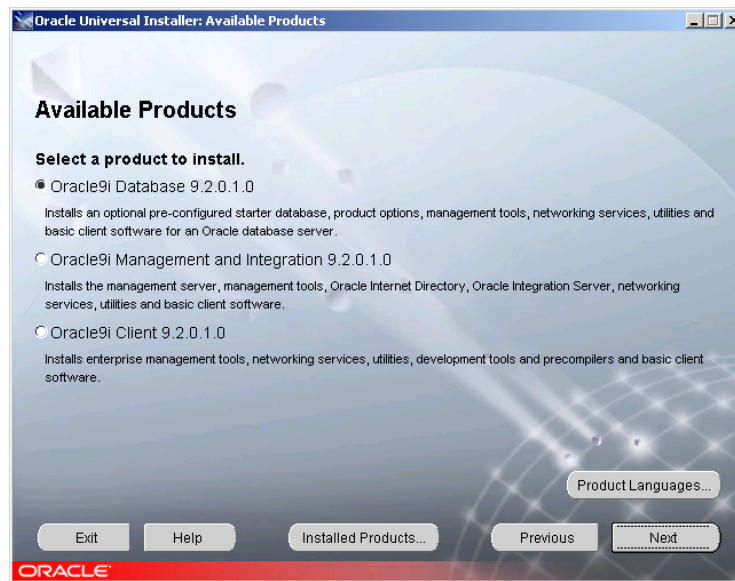
Step 4: If it is a fresh Installation, this screen will be blank. On the contrary, if any product is listed (installed) check the checkbox against that product and click on Remove as shown in the screen below, else click on Close to come to the “Oracle Universal Installer: Welcome “screen. Click <Next> and “Oracle Universal Installer: File Locations” screen appears.



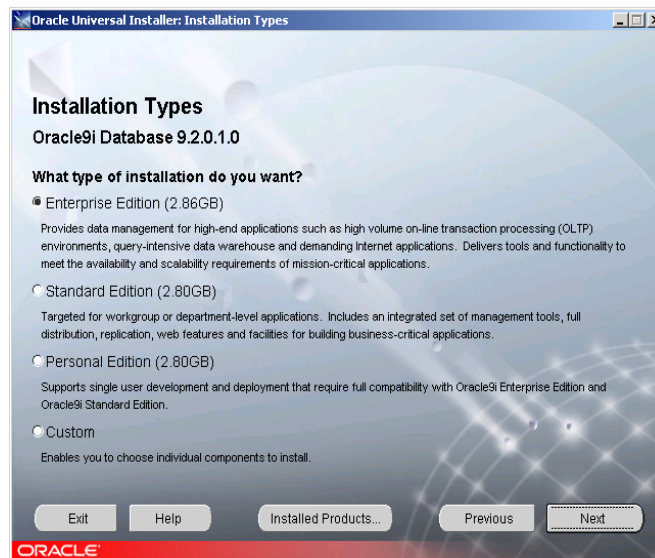
Step 5: Do not change the source settings. The destination path can be altered if the shown drive has less disk space. **Keep a note of Destination Path for further reference.** Click <Next> to come to the “Oracle Universal Installer: Available Products” screen.



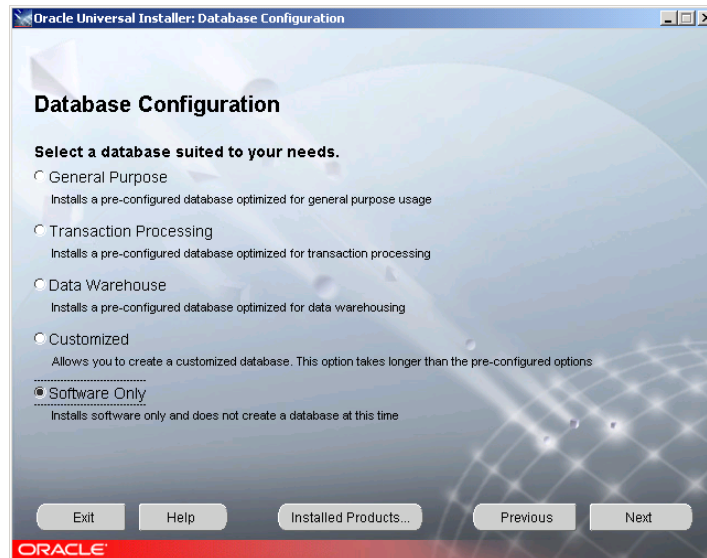
Step 6: Select Oracle 9i Database 9.2.0.1.0 and click <Next> to come to “Oracle Universal Installer: Installation Types” Screen.



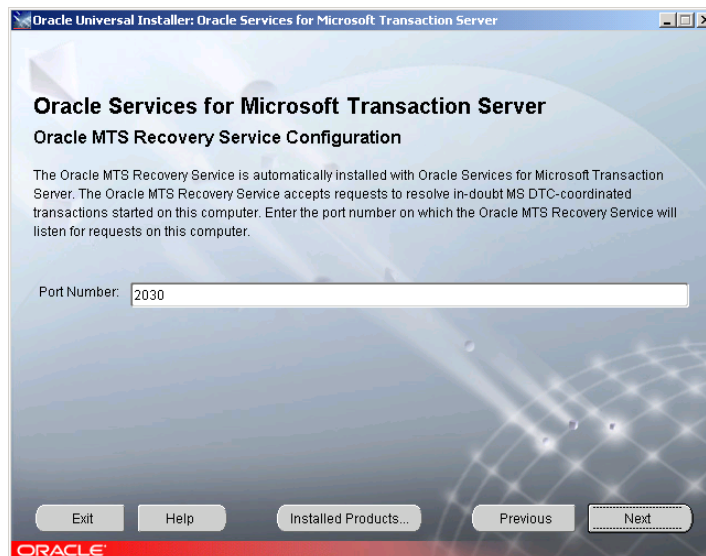
Step 7: Select Enterprise Edition for package A, Standard Edition for package B, Personal Edition for packages C and D. Click <Next> to come to the “Oracle Universal Installer: Database Configuration” screen.



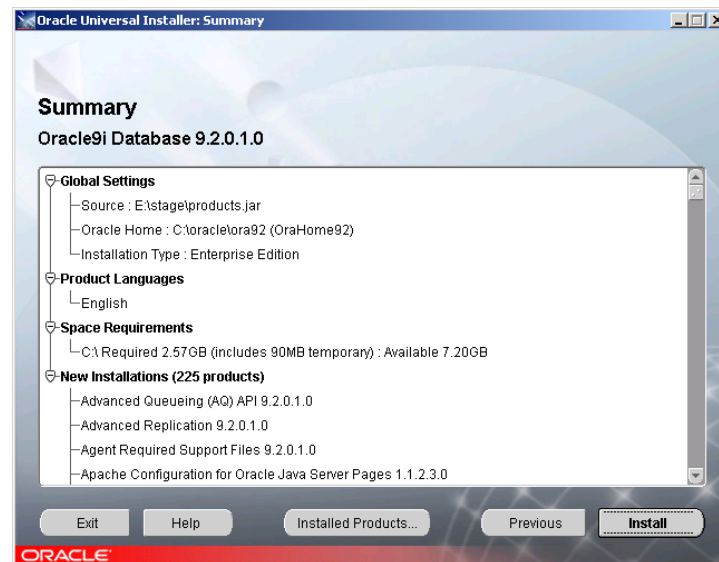
Step 8: Select Software Only radio button and click <Next> to come to the “Oracle Universal Installer: Oracle Services for Microsoft Transaction Server” screen.



Step 9: The Oracle software automatically identifies the port number of server and does not require user intervention. Click **<Next>** to come to the “Oracle Universal Installer: Summary Screen”.



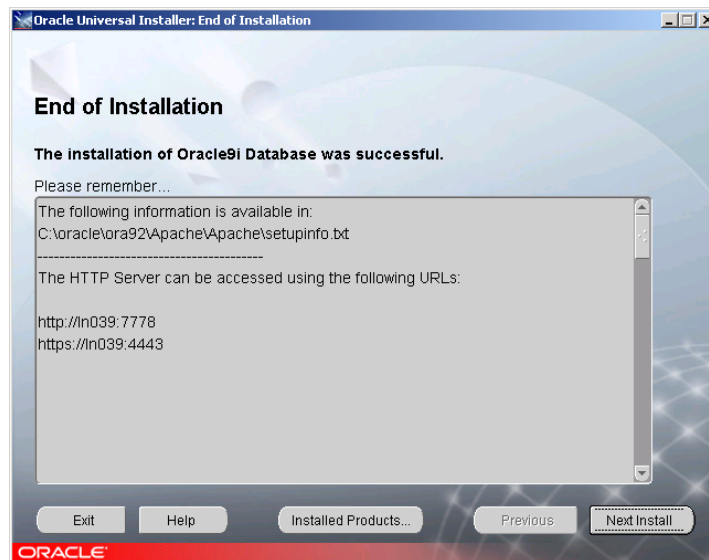
Step 10: Click on Install and the installation starts with a progress bar showing the percentage of installation finished. During Installation it will prompt for Disk 2 of 3 as in the following screen



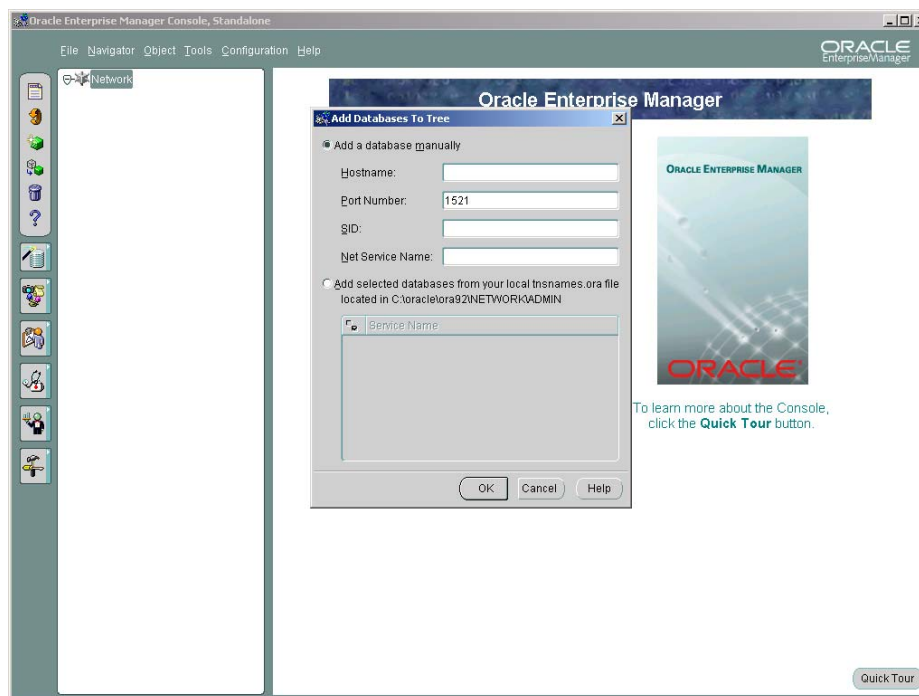
Step 11: Enter disk 2 of 3 and click **<OK>**. Similarly disk 3 of 3 will be asked, enter disk 3.



Step 12: “Oracle Universal Installer: End of Installation” screen comes with the message saying “The installation of Oracle 9i Database was successful”. Click **<Exit>** to come out of the installation wizard.

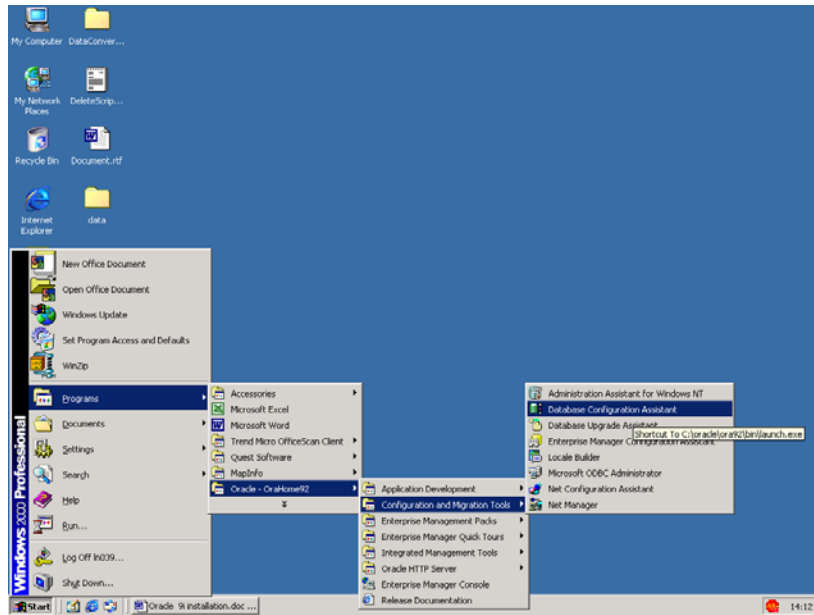


Step 13: Click Cancel to close the “Add Database to Tree” screen. Close the Oracle Enterprise Manager Console, Standalone application. Remove the CD from CD Drive.

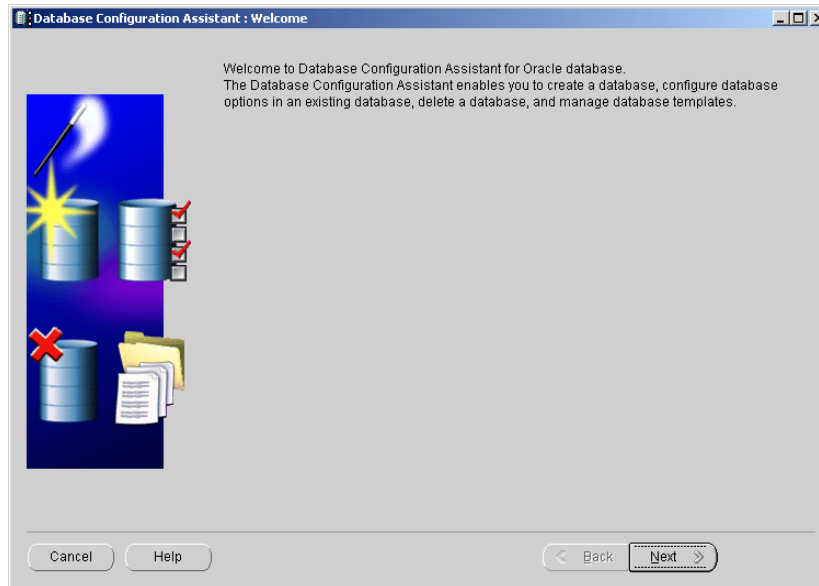


4.4.2. Oracle - 9i Release2 Database creation and configuration

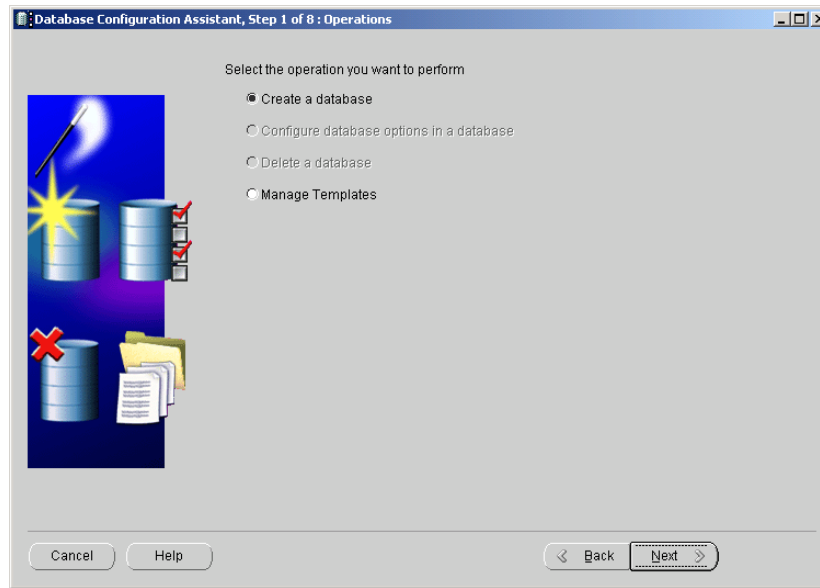
Step 1: Go to Start→Programs→Oracle-OraHome92→Configuration and Migration Tools→Database Configuration Assistant.



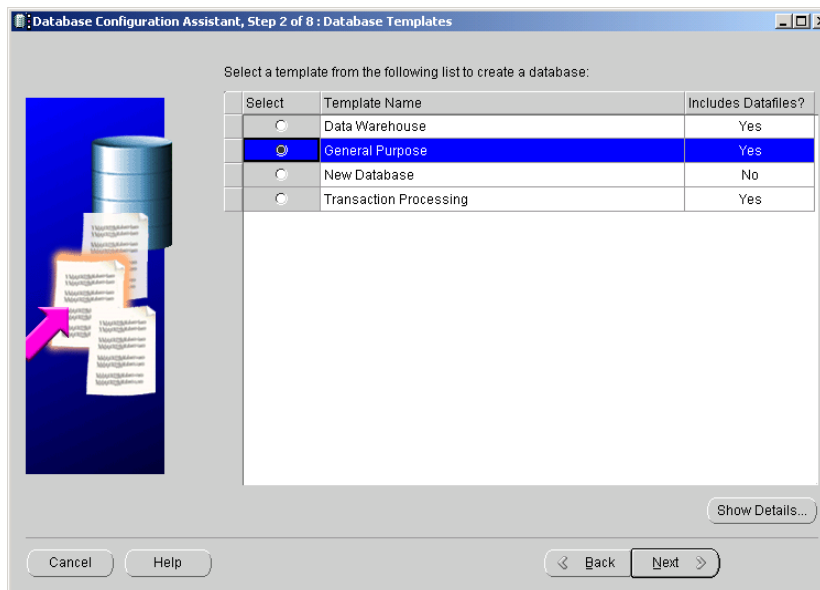
Step 2: On the “Database configuration Assistant: Welcome” screen, click Next.



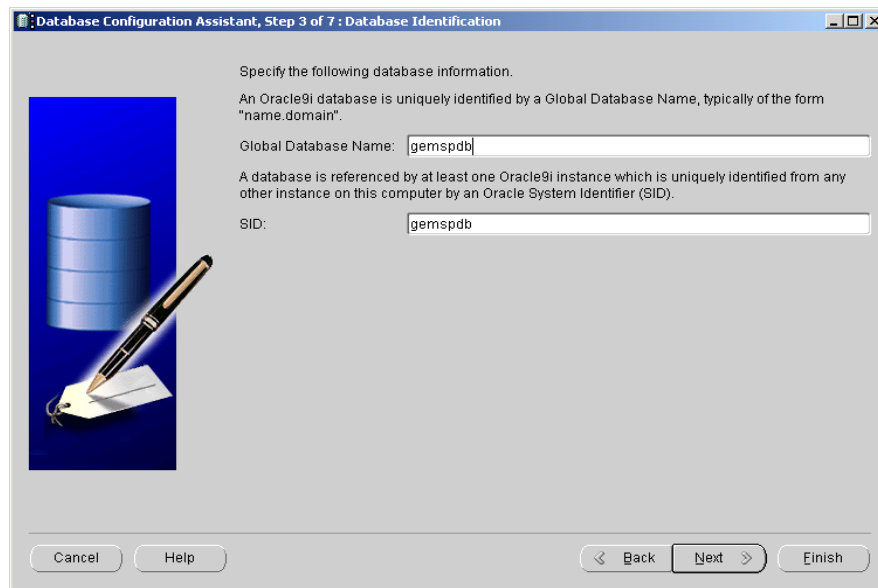
Step 3: On the Database configuration Assistant: Step 1 of 8” screen, Click on “Create a database” radio button. Click <Next>



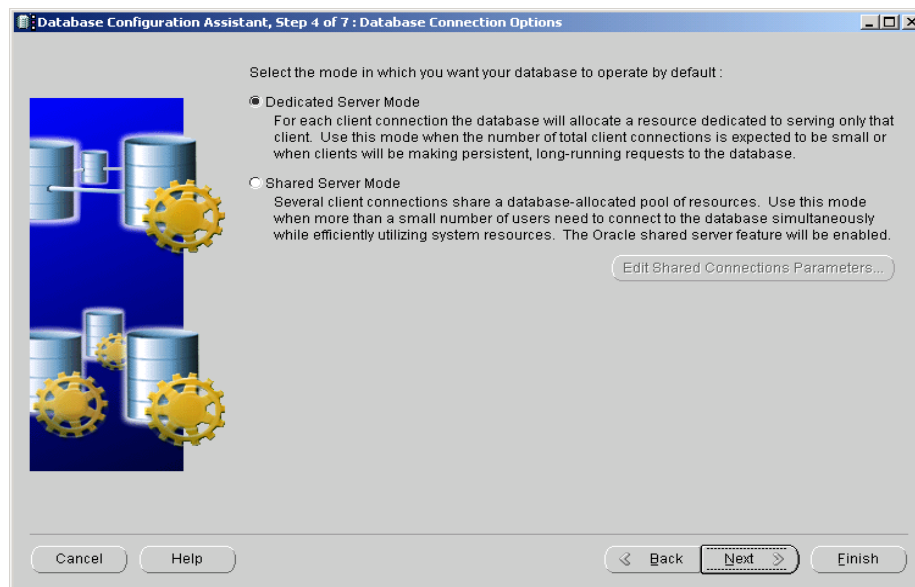
Step 4: On the “Database configuration Assistant, Step 2 of 8” screen, Choose “General Purpose” and click <Next>



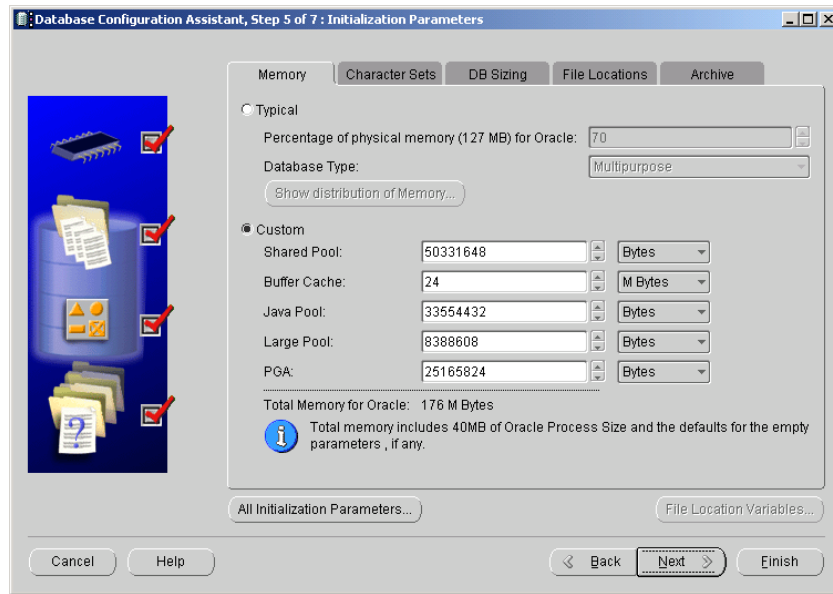
Step 5: On the “Database configuration Assistant: step 3 of 7 “ screen, Enter a database name (eg. gemspdb) in the Global Database Name textbox. SID textbox gets automatically filled in with the same name, the user need not change it. Click < Next>



Step 6: On the “Database configuration Assistant, step 4 of 7: Database Connection Options” screen, choose the “Dedicated Server Mode” radio button and click <Next>.



Step 7: On the “Database configuration Assistant, step 5 of 7: Initialization Parameters” screen, click on “All Initialization Parameters”, to proceed to all Initialization Parameters Screen.



Name	Value	Included (Y/N)	Category
optimizer_features_enable	9.0.1		Optimizer
remote_dependencies_m...	TIMESTAMP		PL/SQL
parallel_threads_per_cpu	2		Parallel Executions
logmnr_max_persistent_s...	1		Miscellaneous
nls_date_language			NLS
workarea_size_policy	MANUAL		Sort, Hash Joins, Bitmap Indexes
O7_DICTIONARY_ACCES...	FALSE		Security and Auditing
license_max_sessions	0		License Limits
star_transformation_enabl...	FALSE	✓	Optimizer
nls_date_format			NLS
lock_sga	FALSE		SGA Memory
fixed_date			Miscellaneous
remote_os_roles	FALSE		Security and Auditing
nls_comp			NLS
object_cache_max_size_p...	10		Objects and LOBs
shared_memory_address	0		SGA Memory
db_recycle_cache_size	0		Cache and I/O
row_locking	always		ANSI Compliance
log_archive_duplex_dest			Archive
sql_trace	FALSE		Diagnostics and Statistics
db_block_buffers	0		Cache and I/O
undo_management	AUTO	✓	System Managed Undo and Rollback Segments
oracle_trace_collection_p...	?/otrace/admin/cdf		Diagnostics and Statistics
fast_start_parallel_rollback	LOW		Transactions
global_names	FALSE		Distributed, Replication and Snapshot
create_bitmap_area_size	8388608		Sort, Hash Joins, Bitmap Indexes
max_enabled_roles	30		Security and Auditing
gc_files_to_locks			Cluster Database
db_name	nemsndb	✓	Database Identification

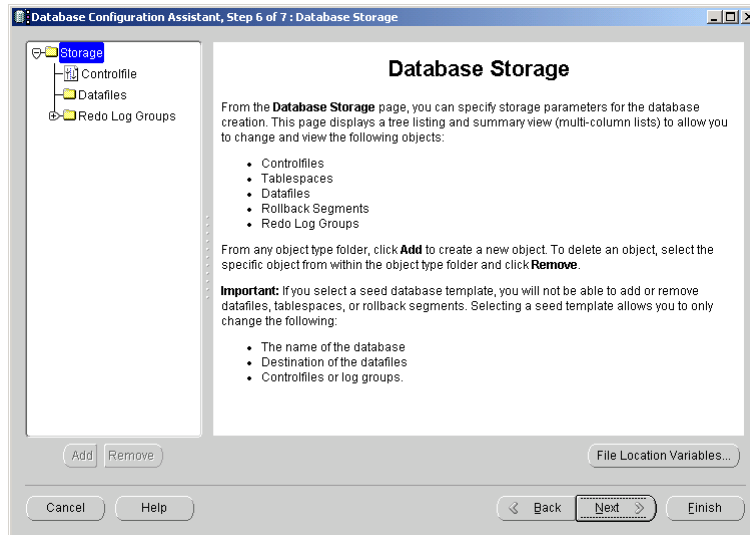
Step 8: In the All Initialization Parameters screen scroll down to “open_cursors” and change its value to 2000 as shown in the screen below.

Name	Value	Included (Y/N)	Category
nls_length_semantics	BYTE		NLS
nls_nchar_conv_excp	FALSE		NLS
nls_numeric_characters			NLS
nls_sort			NLS
nls_territory	AMERICA		NLS
nls_time_format			NLS
nls_time_tz_format			NLS
nls_timestamp_format			NLS
nls_timestamp_tz_format			NLS
object_cache_max_size_p...	10		Objects and LOBs
object_cache_optimal_size	102400		Objects and LOBs
open_cursors	2000	✓	Cursors and Library Cache
open_links	4		Distributed, Replication and Snaps...
open_links_per_instance	4		Distributed, Replication and Snaps...
optimizer_features_enable	9.0.1		Optimizer
optimizer_index_caching	0		Optimizer
optimizer_index_cost_adj	100		Optimizer
optimizer_max_permutatio...	2000		Optimizer
optimizer_mode	CHOOSE		Optimizer
oracle_trace_collection_n...			Diagnostics and Statistics
oracle_trace_collection_p...	?\otrace\admin\cdf		Diagnostics and Statistics
oracle_trace_collection_size	5242880		Diagnostics and Statistics
oracle_trace_enable	FALSE		Diagnostics and Statistics
oracle_trace_facility_name	oracled		Diagnostics and Statistics
oracle_trace_facility_path	?\otrace\admin\fd		Diagnostics and Statistics
os_authent_prefix	ops\$		Security and Auditing
os_roles	FALSE		Security and Auditing
parallel_adaptive_multi_u...	FALSE		Parallel Executions
parallel_automatic_tuning	FALSE		Parallel Executions

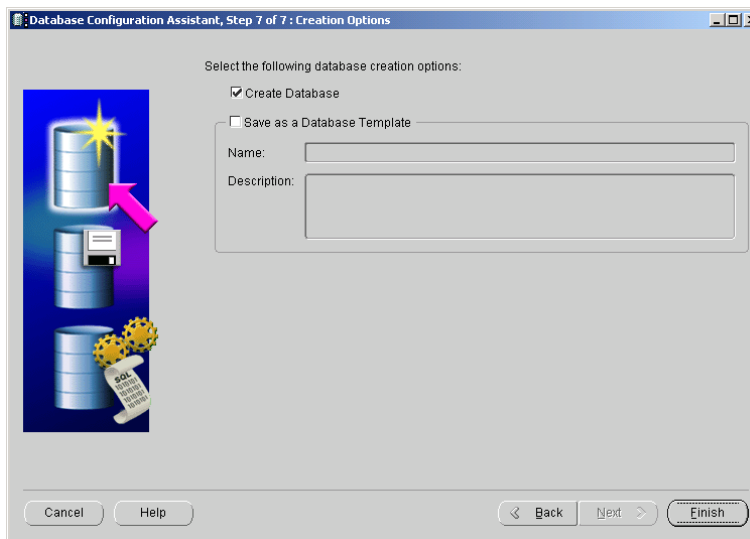
Scroll down to “utl_file_dir “ and enter “*” there. Be sure that a ✓ symbol comes in the Included(Y/N) column of the screen against “open_cursors “and “util_file_dir”, then click <Close>

Name	Value	Included (Y/N)	Category
shared_server_sessions	0		MTS
shared_servers	0		MTS
sort_area_retained_size	0		Sort, Hash Joins, Bitmap Indexes
sort_area_size	524288	✓	Sort, Hash Joins, Bitmap Indexes
sprofile			Miscellaneous
sql92_security	FALSE		Security and Auditing
sql_trace	FALSE		Diagnostics and Statistics
sql_version	NATIVE		Miscellaneous
standby_archive_dest	?\dbs\arch		Standby Database
standby_file_management	MANUAL		Standby Database
standby_preserves_names	FALSE		Standby Database
star_transformation_enabl...	FALSE	✓	Optimizer
tape_asynch_io	TRUE		Backup and Restore
thread	0		Cluster Database
timed_os_statistics	0		Diagnostics and Statistics
timed_statistics	TRUE	✓	Diagnostics and Statistics
trace_enabled	TRUE		Diagnostics and Statistics
tracefile_identifier			Diagnostics and Statistics
transaction_auditing	TRUE		Redo Log and Recovery
transactions	41		Transactions
transactions_per_rollback...	5		System Managed Undo and Rollba...
undo_management	AUTO	✓	System Managed Undo and Rollba...
undo_retention	10800	✓	System Managed Undo and Rollba...
undo_suppress_errors	FALSE		System Managed Undo and Rollba...
undo_tablespace	UNDOTBS1	✓	System Managed Undo and Rollba...
use_indirect_data_buffers	FALSE		Cache and I/O
user_dump_dest	{ORACLE_BASE}\a...	✓	Diagnostics and Statistics
utl_file_dir	*	✓	PL/SQL
workarea_size_policy	MANUAL		Sort, Hash Joins, Bitmap Indexes

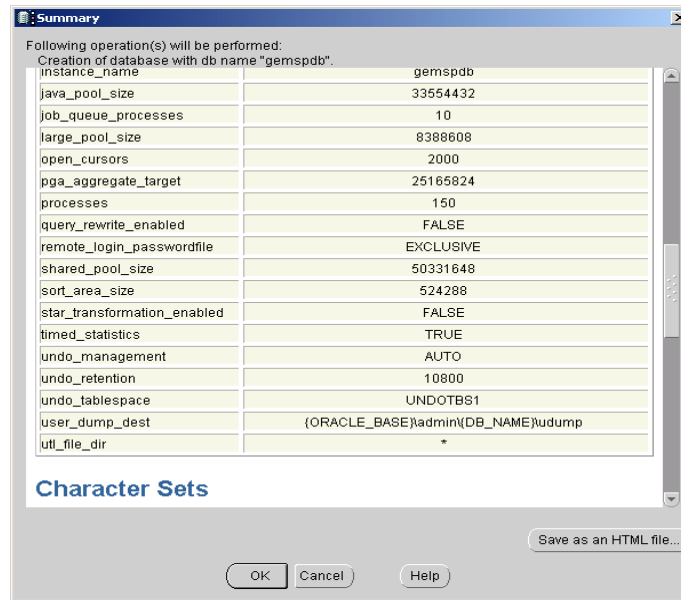
Step 9: On the “Database configuration Assistant 6 of 7: Database Storage” screen, click <Next>



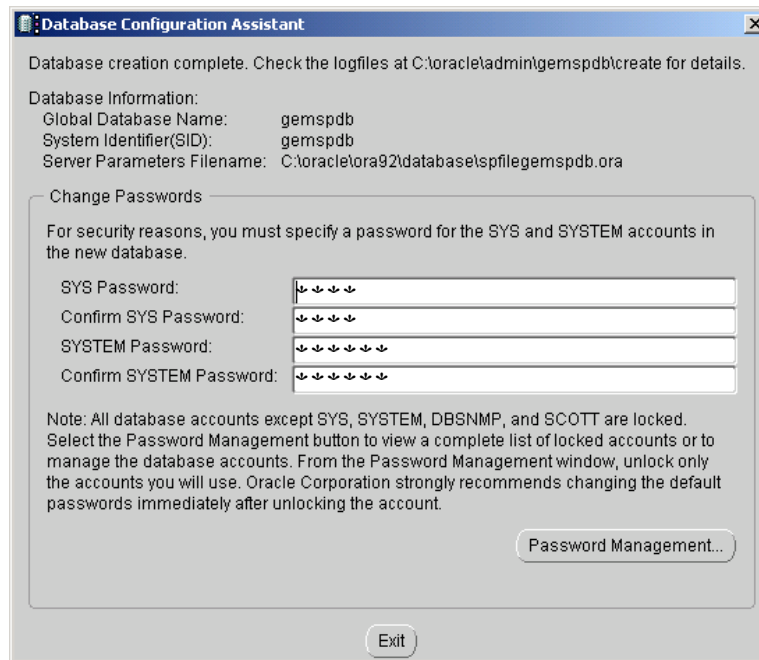
Step 10: On the “Database configuration Assistant, step 7 of 7: Creation Options” screen, click <Finish>



Step 11: After the above step the following screen pops up showing all the details with which the database will be created. Make sure the changes done are reflected in the summary and click <OK>

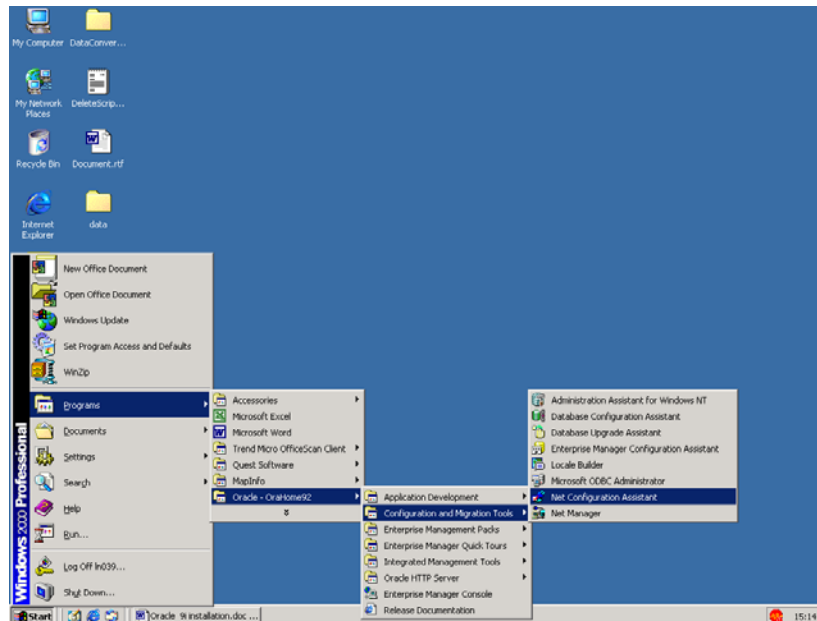


Step 12: In the screen below assign and confirm passwords for SYS and SYSTEM and click <Exit>

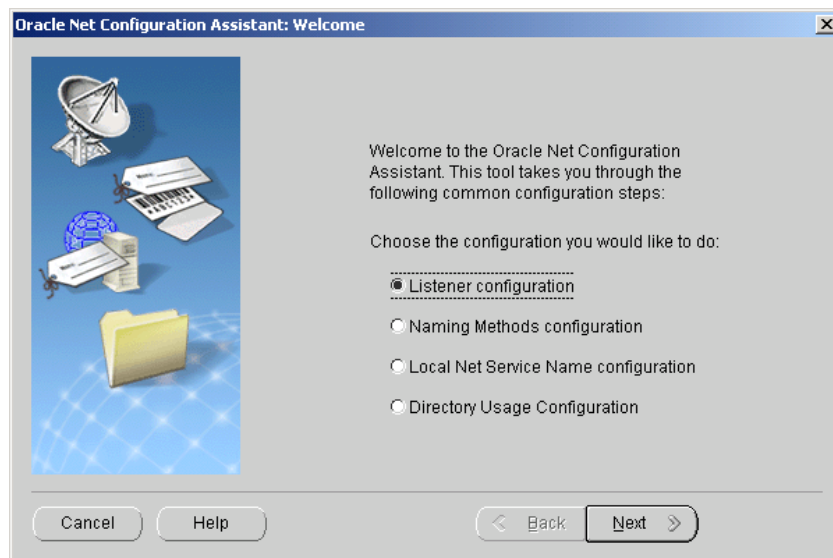


4.4.3. Oracle 9i Release2 Net configuration

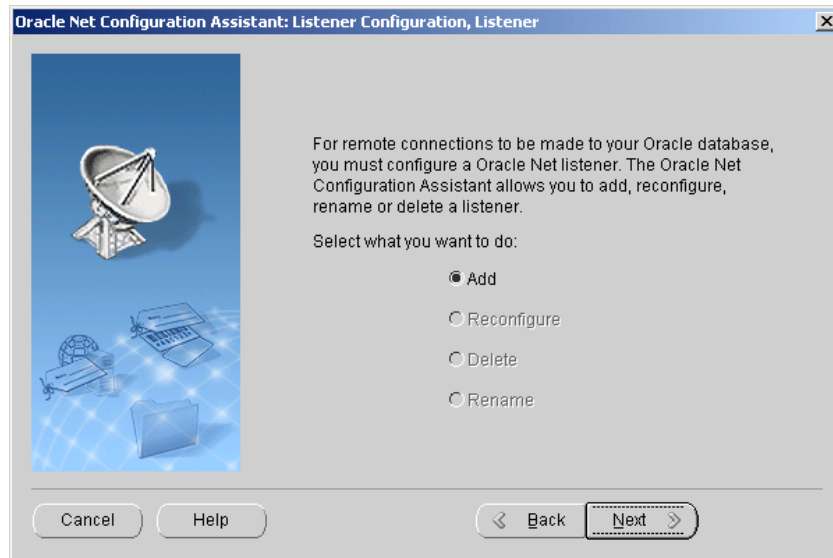
Step 1: Go to Programs→Oracle-OraHome92→Configuration and Migration tools→Net Configuration Assistant



Step 2: On the “Oracle Net Configuration Assistant: Welcome” screen, Choose Listener Configuration radio button and click <Next>



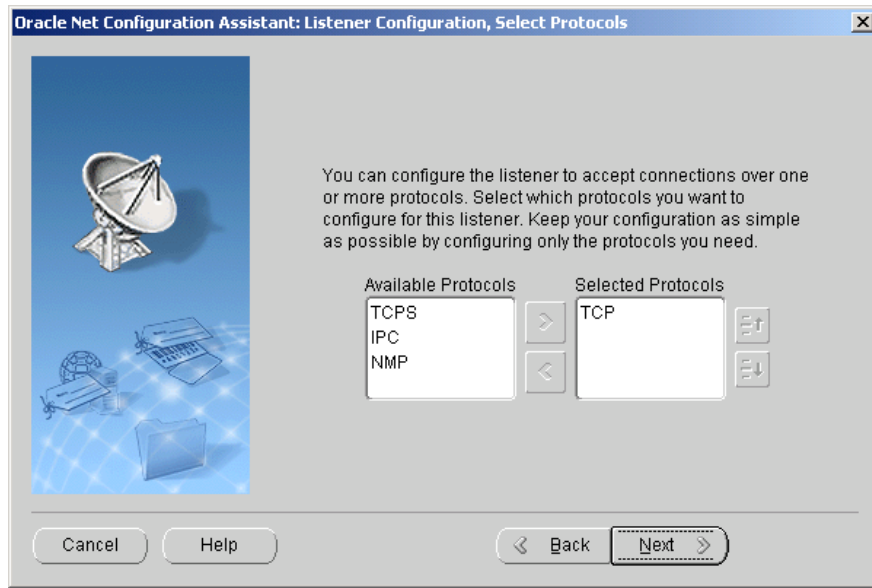
Step 3: On the “Oracle Net Configuration Assistant: Listener Configuration, Listener” screen, choose Add radio button and click <Next>



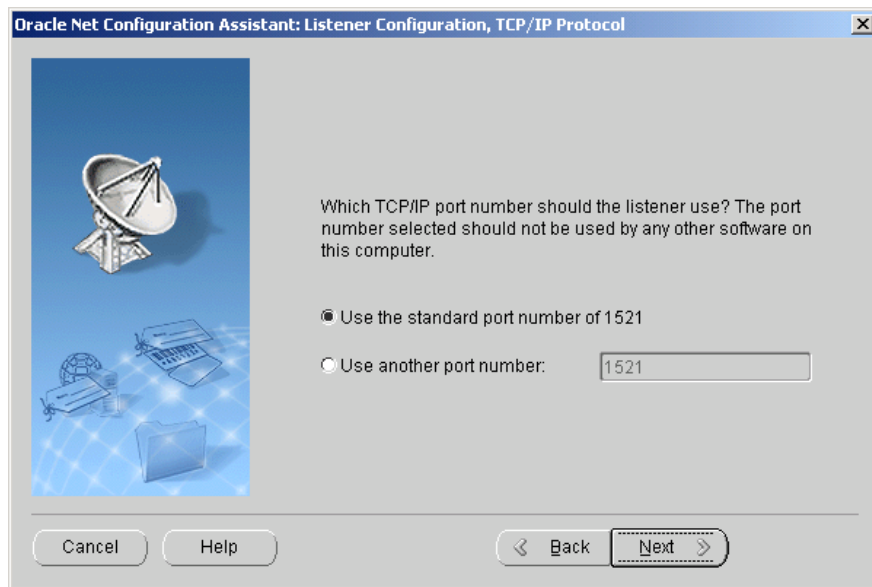
Step 4: On the “Oracle Net Configuration Assistant: Listener Configuration, Listener Name” screen, Listener name textbox gets automatically filled up with “LISTENER” (need not change it). Click <Next>



Step 5: On the “Oracle Net Configuration Assistant: Listener Configuration, Select Protocols” screen,click <Next>



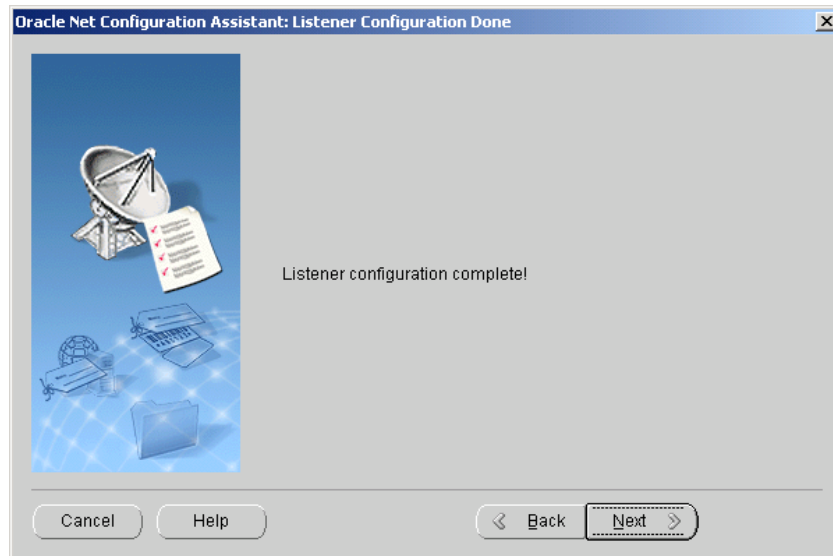
Step 6: On the “Oracle Net Configuration Assistant: Listener Configuration, TCP/IP Protocol” screen,choose “Use the standard port number of 1521” and click <Next>.



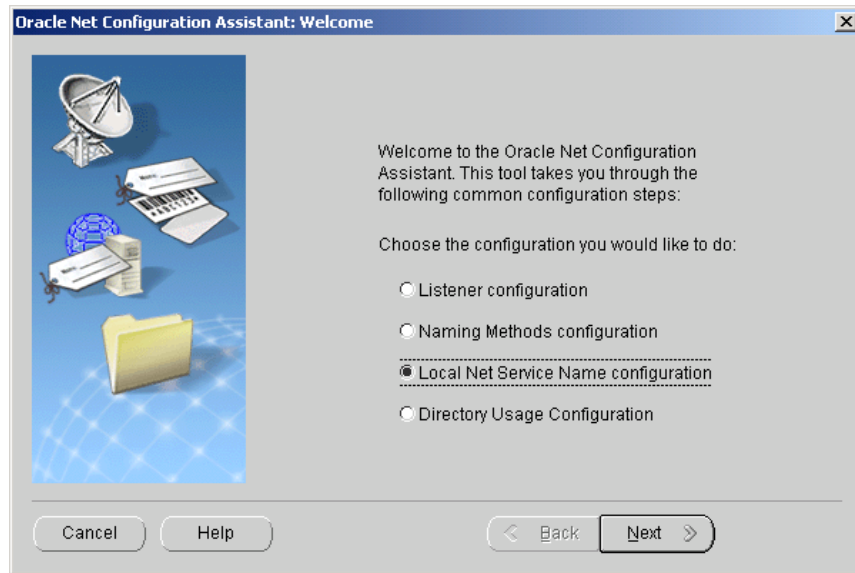
Step 7: On the “Oracle Net Configuration Assistant: Listener Configuration, More Listeners” screen,choose No and click <Next>



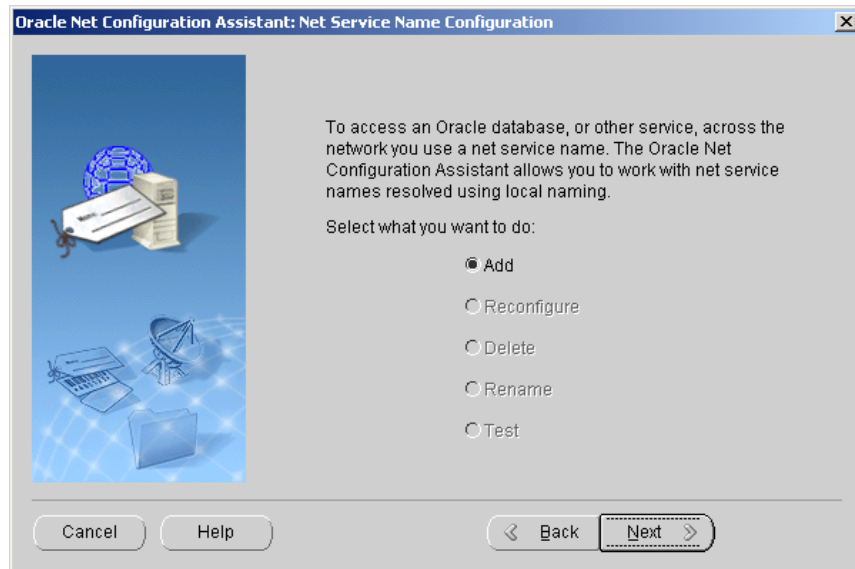
Step 8: On the “Oracle Net Configuration Assistant: Listener Configuration Done”. Click <Next>



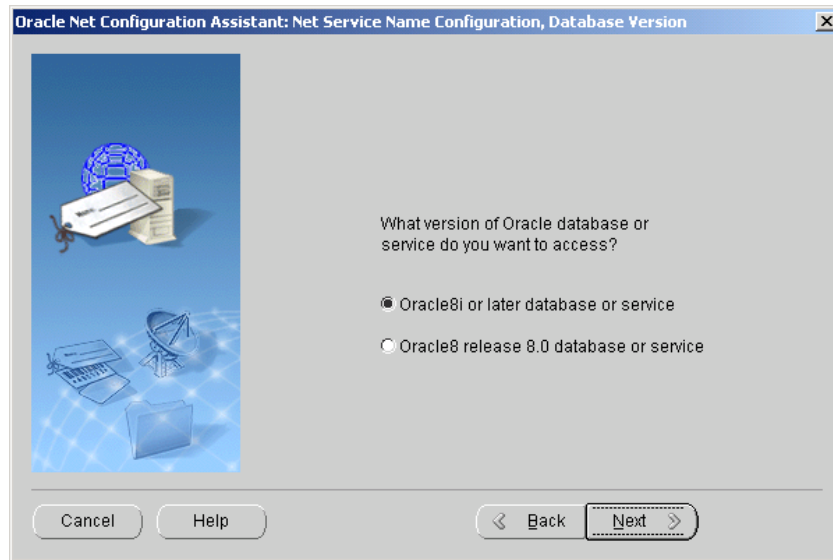
Step 9: Again the “Oracle Net Configuration Assistant: Welcome” screen appears. Choose “Local Net Service Name configuration” and click <Next>



Step 10: On the “Oracle Net Configuration Assistant: Net Service Name Configuration screen”,choose Add and click <Next>



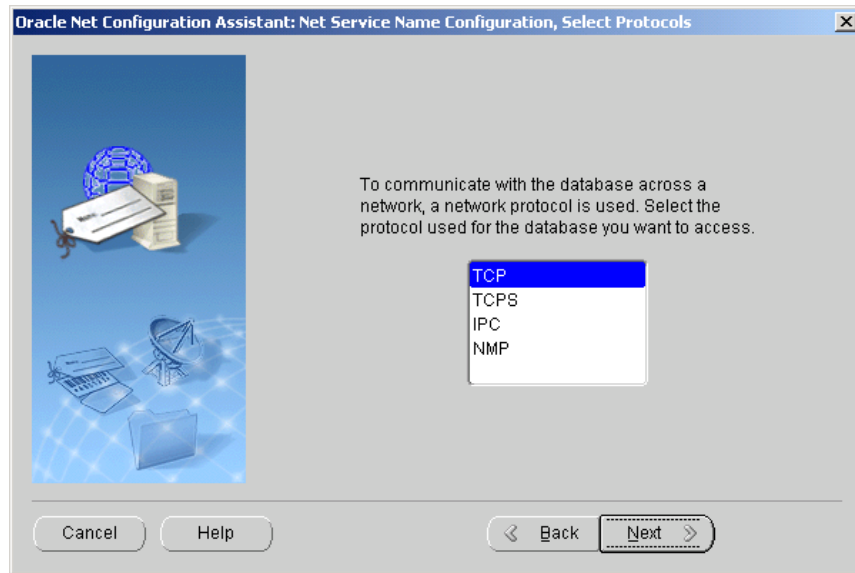
Step 11: On the “Oracle Net Configuration Assistant: Net Service Name Configuration, Database Version” screen, choose “Oracle 8i or later database or service” and click <Next>



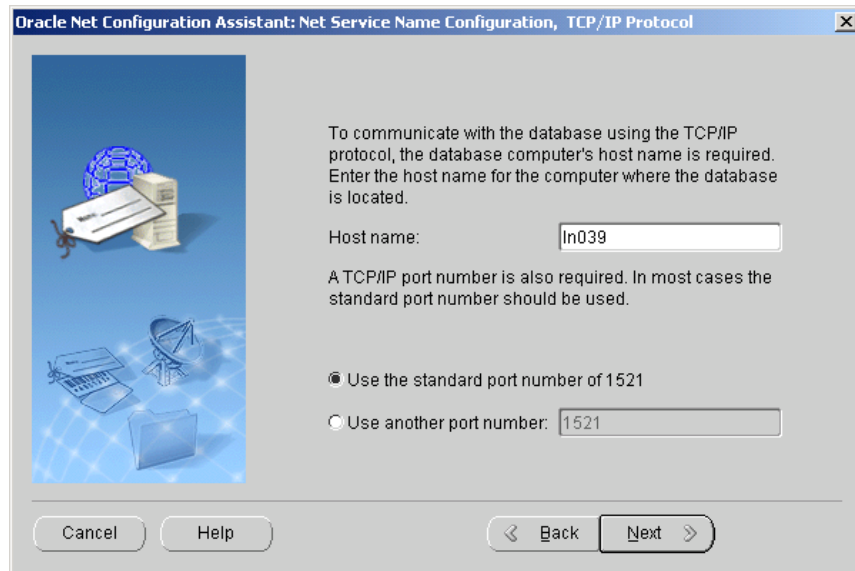
Step 12: On the “Oracle Net Configuration Assistant: Net Service Name Configuration, Service Name” screen enter a service name in the Service Name textbox and click <Next>

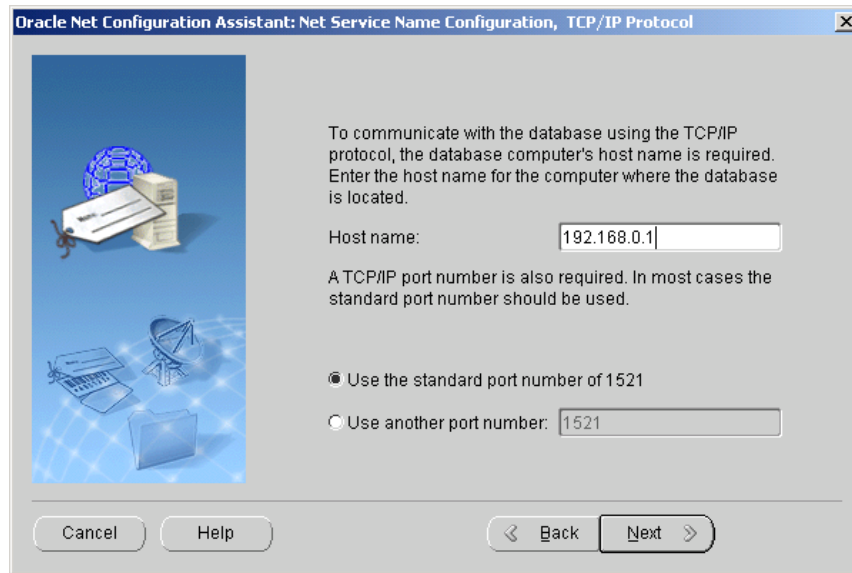


Step 13: On the “Oracle Net Configuration Assistant: Net Service Name Configuration, Select Protocols” screen, choose TCP and click <Next>

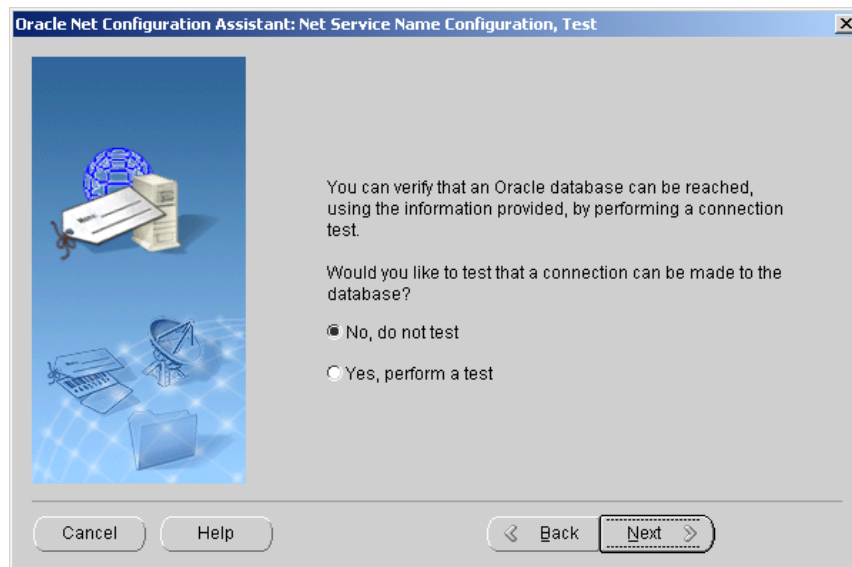


Step 14: On the “Oracle Net Configuration Assistant: Net Service Name Configuration, TCP/IP Protocol” screen, enter the name of the local machine or the IP Address (as shown in the following screenshots) in Host Name textbox. Choose the radio button “Use the standard port number of 1521” and click <Next>

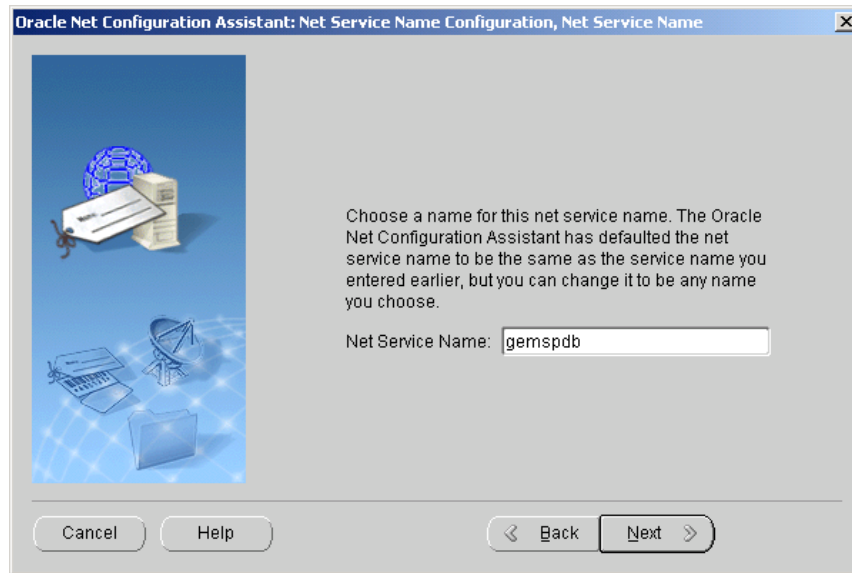




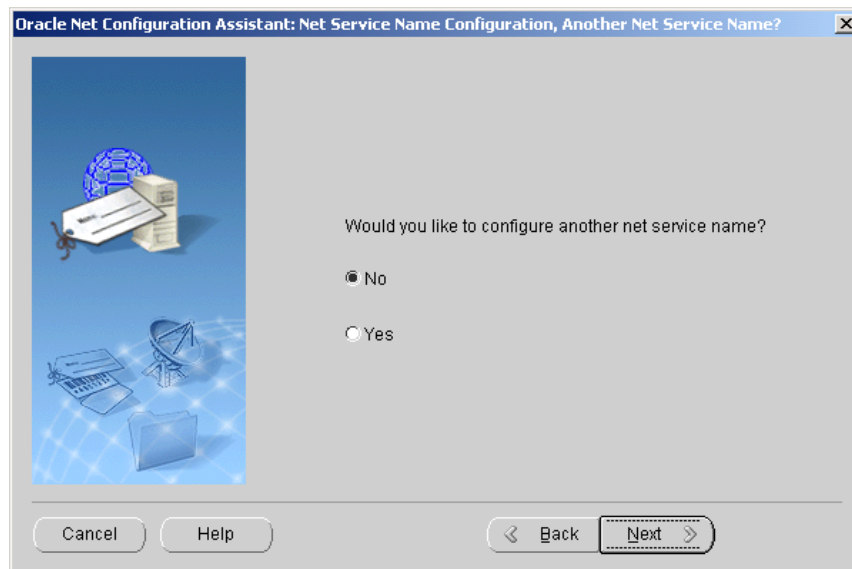
Step 15: On the “Oracle Net Configuration Assistant: Net Service Name Configuration, Test” screen, choose “No, do not test” and click <Next>



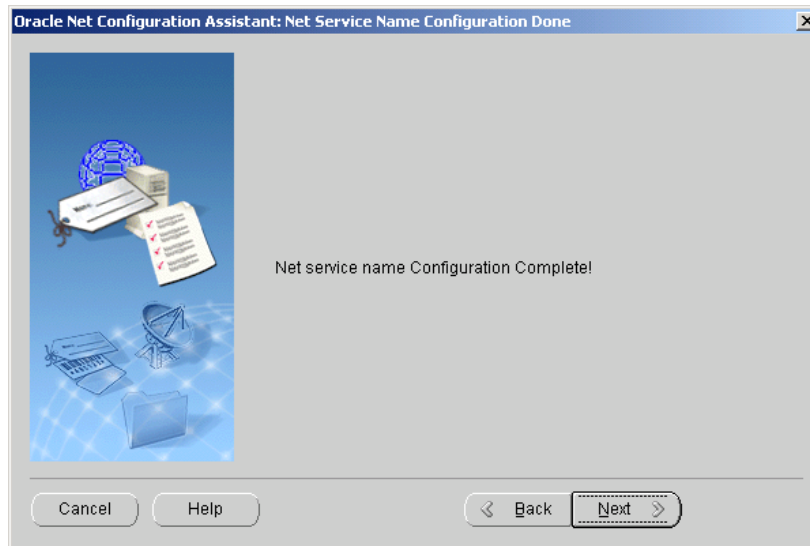
Step 16: On the “Oracle Net Configuration Assistant: Net Service Name Configuration, Net Service Name” screen, the Net Service Name is automatically filled in. Need not change and click <Next>



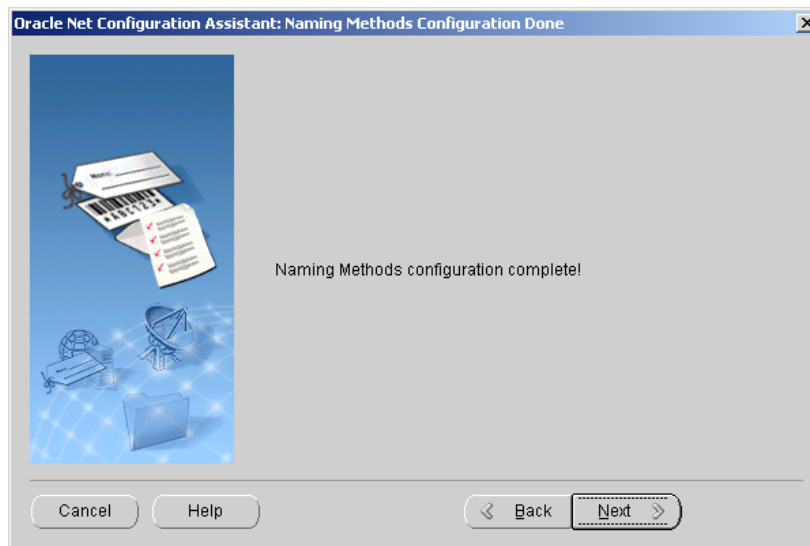
Step 17: On the “Oracle Net Configuration Assistant: Net Service Name Configuration, Another Net Service Name?” screen, choose No and click <Next>



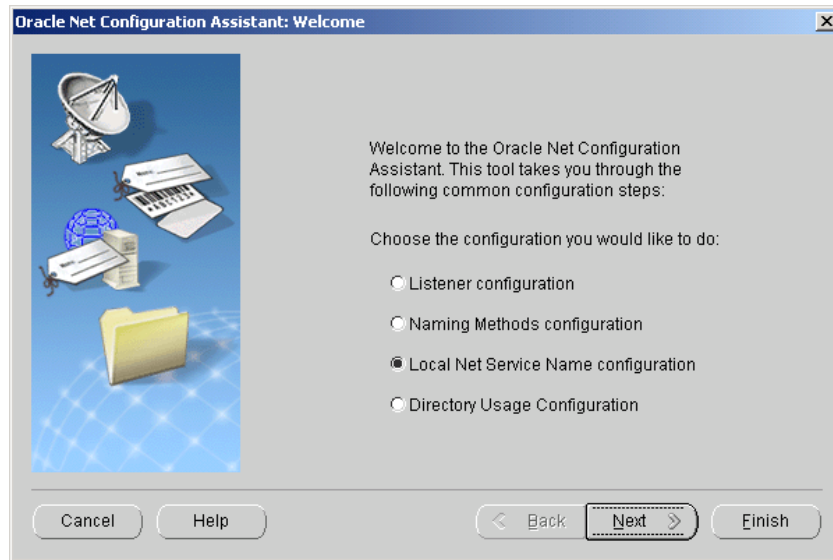
Step 18: On the “Oracle Net Configuration Assistant: Net Service Name Configuration Done” screen ,click <Next>



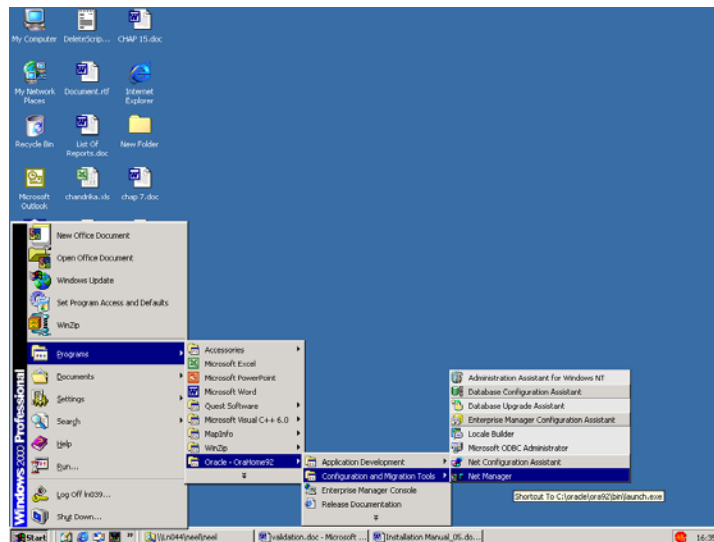
Step 19: On the “Oracle Net Configuration Assistant: Naming Methods Configuration Done” screen,click <Next>



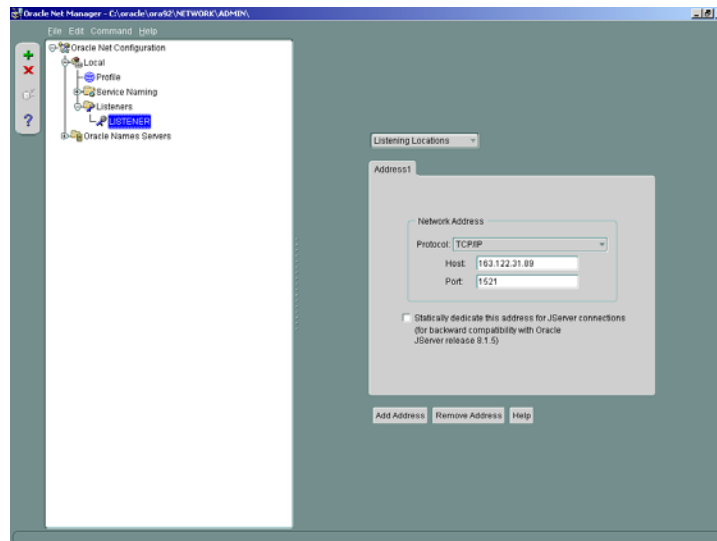
Step 20: Again from the “Oracle Net Configuration Assistant: Welcome” screen, click < Finish>



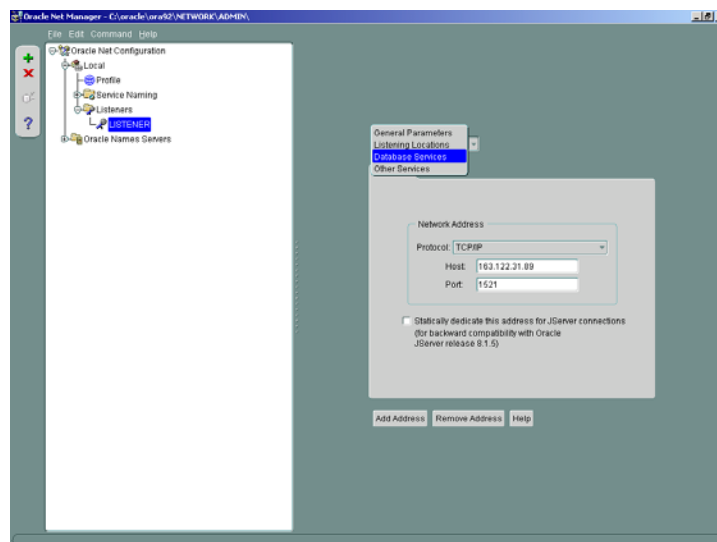
Step 21: Go to Start → Programs → Oracle-OraHome92 → Configuration and Migration tools → Net Manager



Step 22: Click on Listeners and then Listener. After the details of the Listener are shown Click on Listening Locations.



Step 23: Select Database Services.



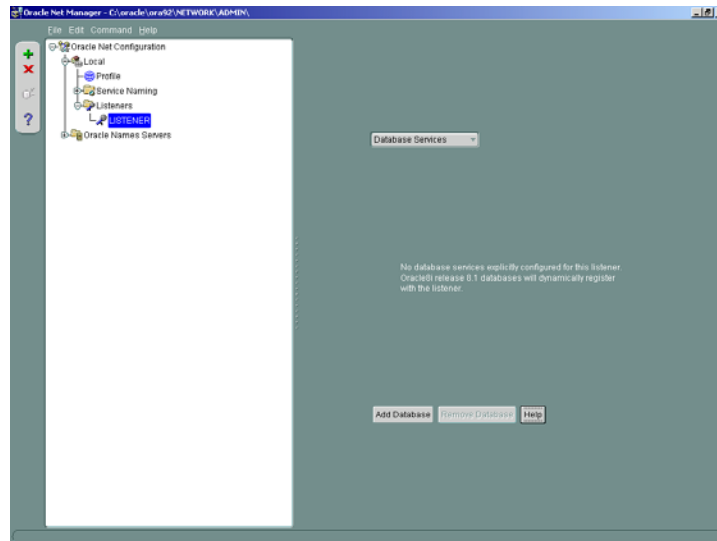
Step 24: If the screen shows the details of the Database Service make sure that the are as follows

Global Database Name: Name of the database as given in Oracle Step 5 of **“Oracle 9i Release2 Database creation and configuration”**.

Oracle Home Directory : The destination path given as in Step 5 of **“Oracle 9i Release2 Installation”**

SID: Same as Global Database Name

If no Database Service is shown Click on Add Database.



Step 25 : Enter following details

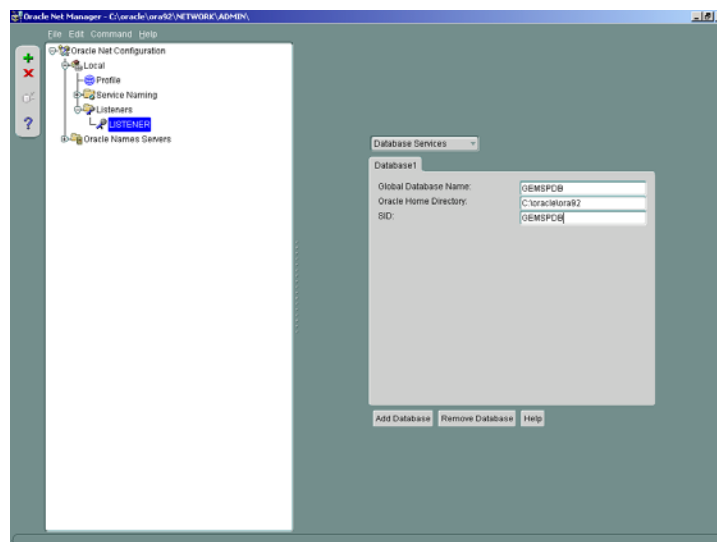
Global Database Name: Name of the database as given in Oracle Step 5 of **“Oracle 9i Release2 Database creation and configuration”**.

..... Oracle Home Directory : The destination path given as in Step 5 of **“Oracle 9i Release2 Installation”**

SID: Same as Global Database Name

Click on File → Save Network Configuration to save the settings.

Click on File → Exit to complete the configuration.

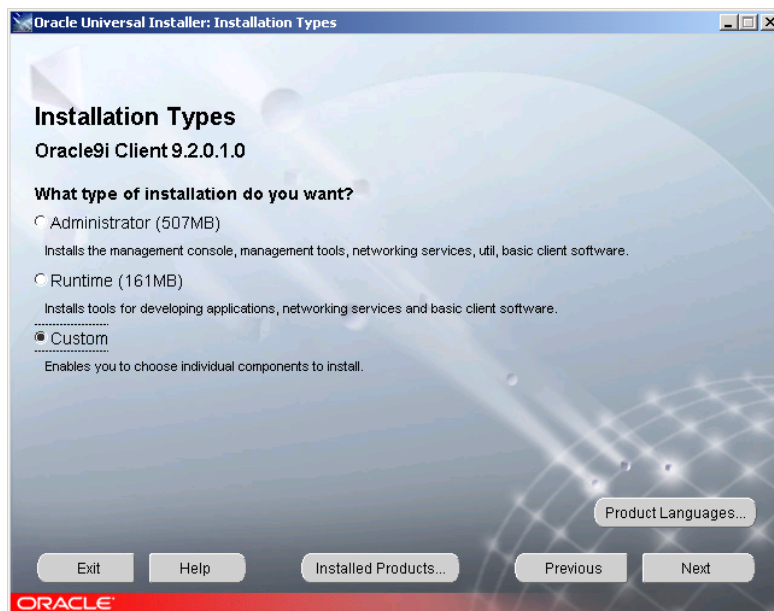


4.4.4 Oracle 9i Release2 Client Installation

Step 1: Insert the Oracle 9i Release2 Client CD and the following screen appears



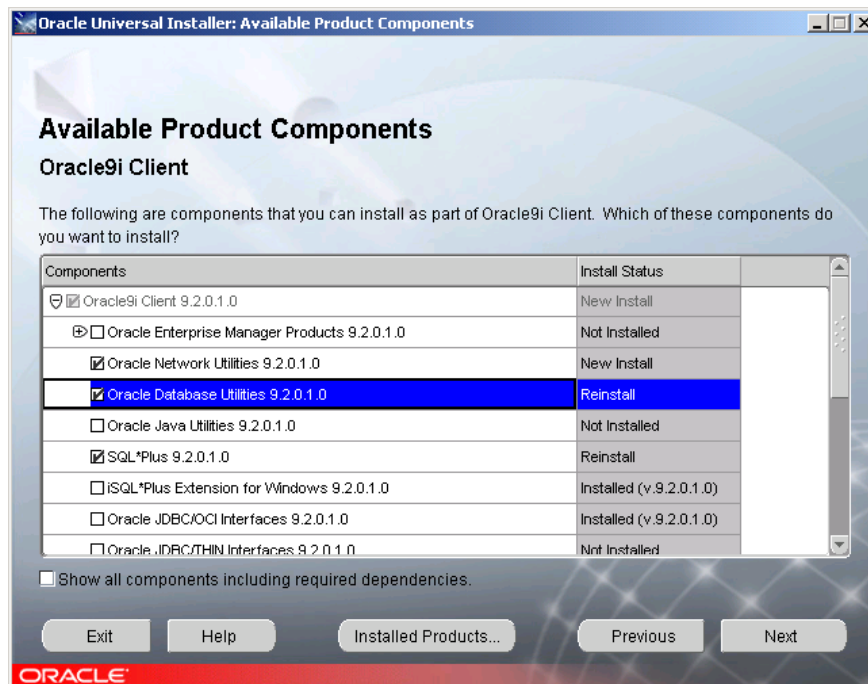
Step 2: Follow the steps 3-5 described in Server installation to check the existing /installed oracle products and remove the same before installing Oracle client product on computer. Select Custom radio button and click <Next>.



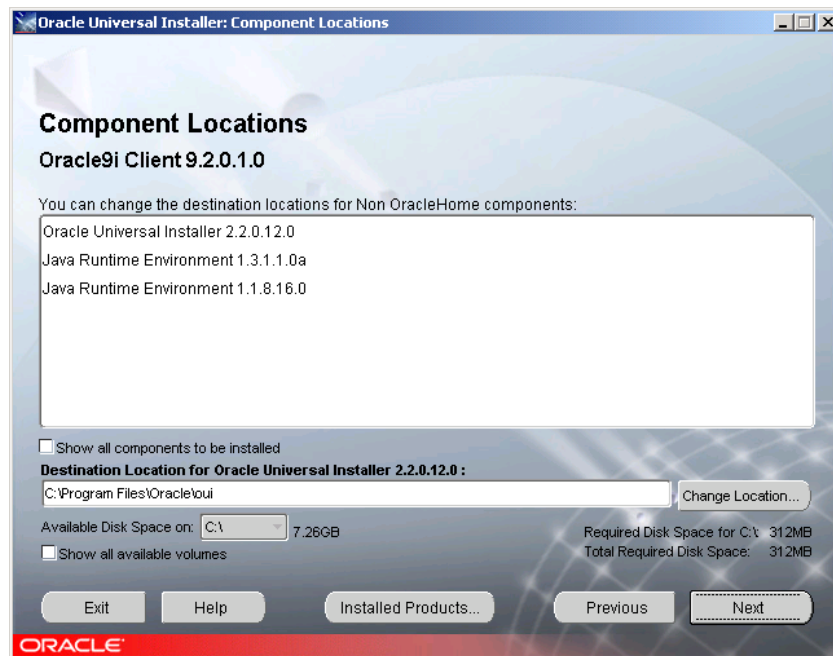
Step 3:

- On the “Oracle Universal Installer :Available Product Components “ screen, check the following checkboxes on the below screen
- Oracle Network Utilities 9.2.0.1.0
- Oracle Database Utilities 9.2.0.1.0
- SQL *Plus 9.2.0.1.0
- Oracle Windows Interfaces 9.2.0.1.0
- Oracle Programmer 9.2.0.1.0
- Oracle Universal Installer 9.2.0.1.0

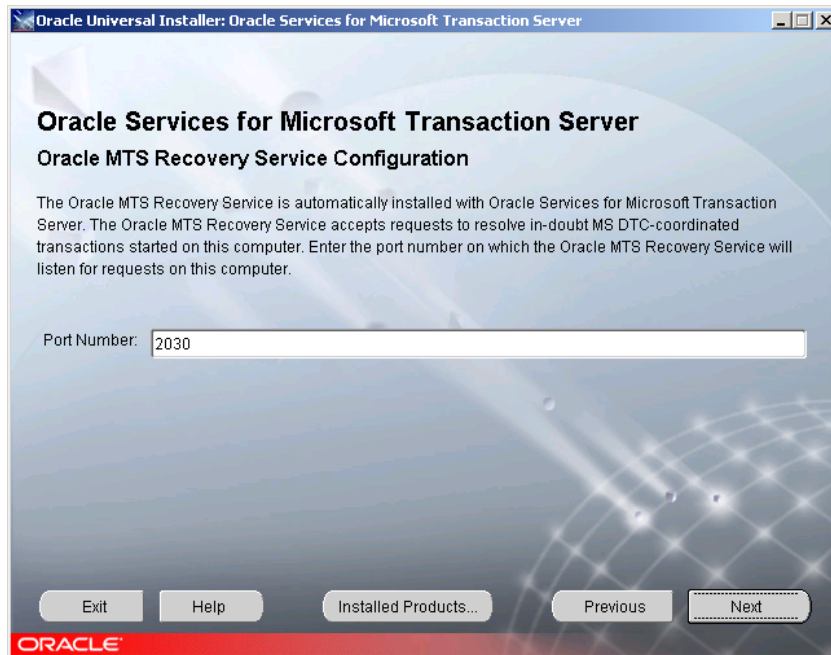
And click <Next>



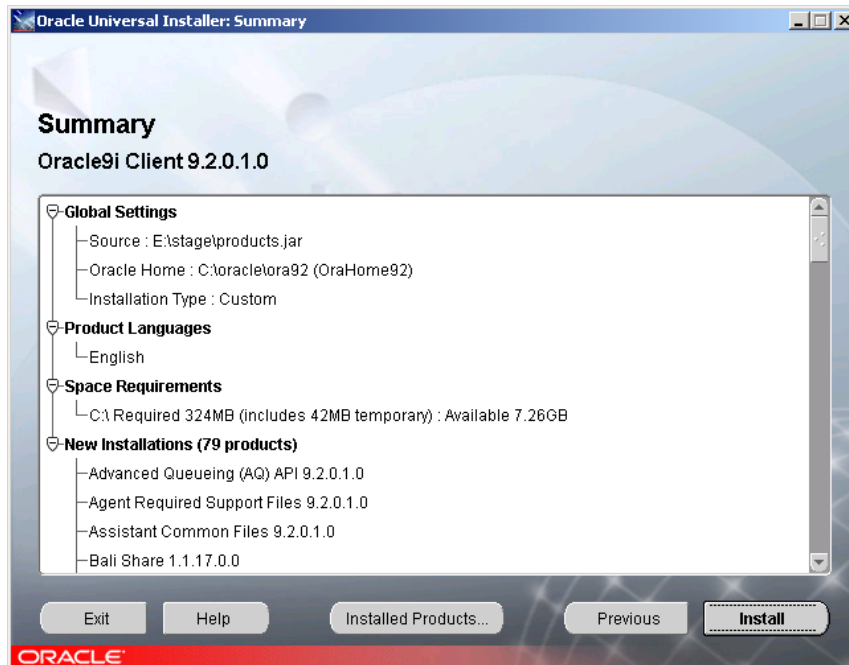
Step 4: On the “Oracle Universal Installer :Component Location” screen, click <Next >



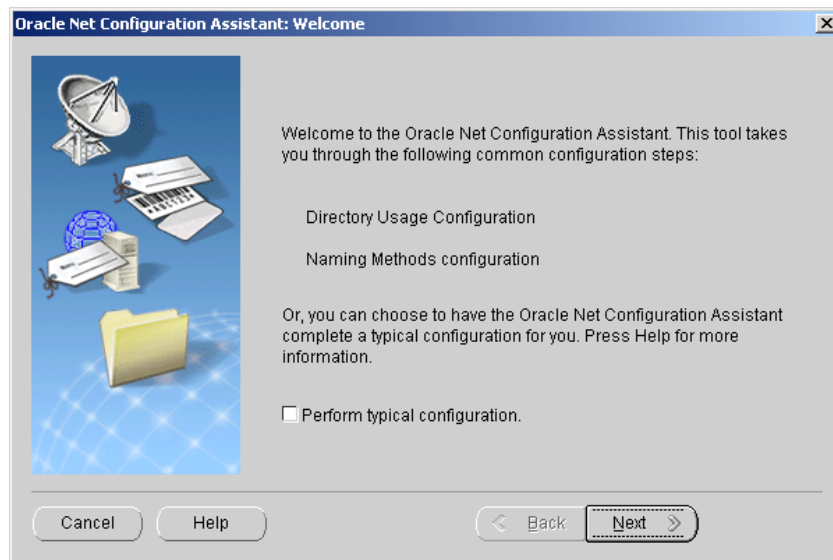
Step 5: The Oracle software automatically identifies the port number of server(GEMSPDB) and does not require user intervention. Click <Next >to proceed to the “Oracle Universal Installer: Summary Screen”.



Step 6: Click <Install> and the installation starts with a progress bar showing the percentage of installation finished.



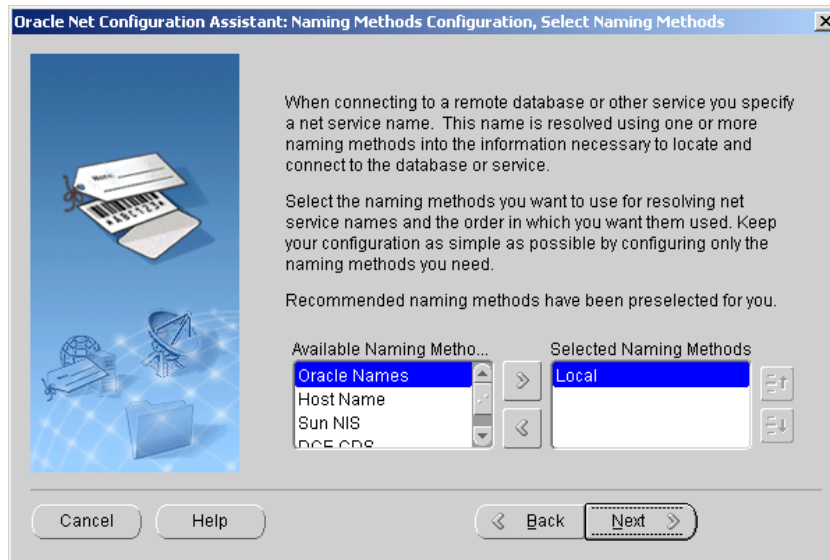
Step 7: On the “Oracle Net Configuration Assistant :Welcome” screen, click <Next>



Step 8: On the “Oracle Net Configuration Assistant: Directory Usage Configuration” choose “No, I want to defer this configuration to another time” and click <Next>.

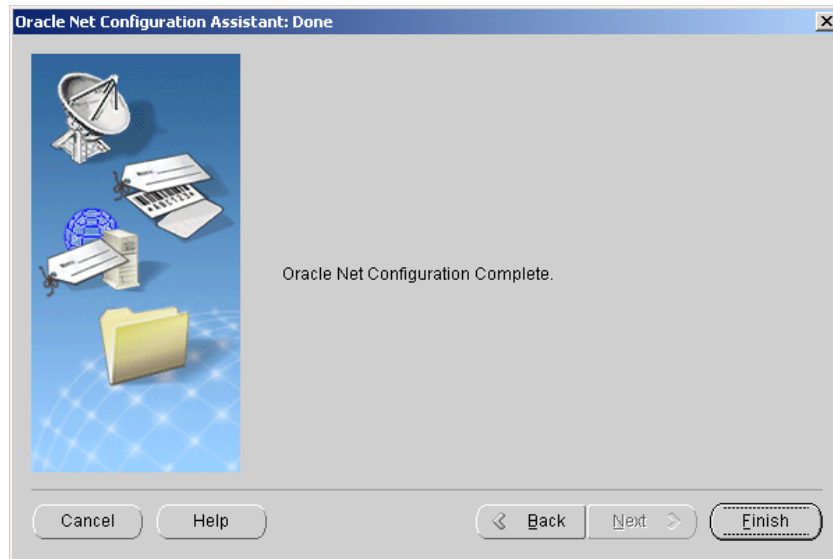


Step 9: On the “Oracle Net Configuration Assistant: Naming Methods Configuration, Select Naming Methods” click <Next>

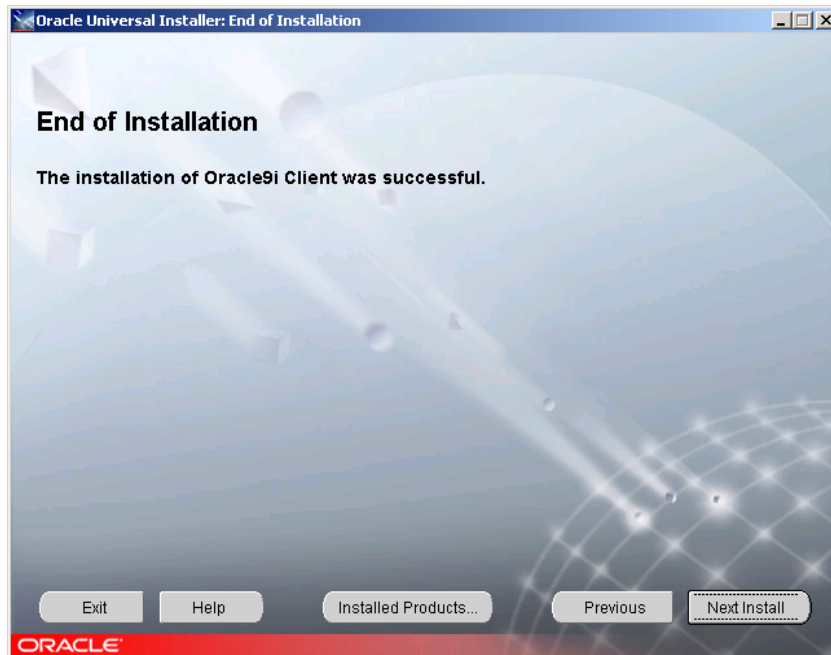


Step 10: Follow the steps 11-19 described in “Oracle 9i Release2 Net configuration “

Step 11: On the “Oracle Net Configuration Assistant: Done” screen click <Finish>



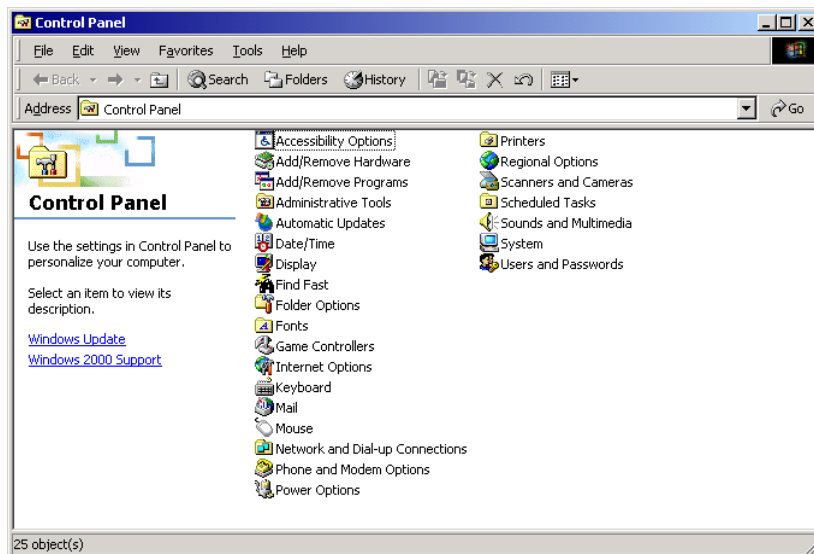
Step 12: The Oracle Universal Installer: End Of Installation screen shows that the installation of Client was successful. Click <Exit>



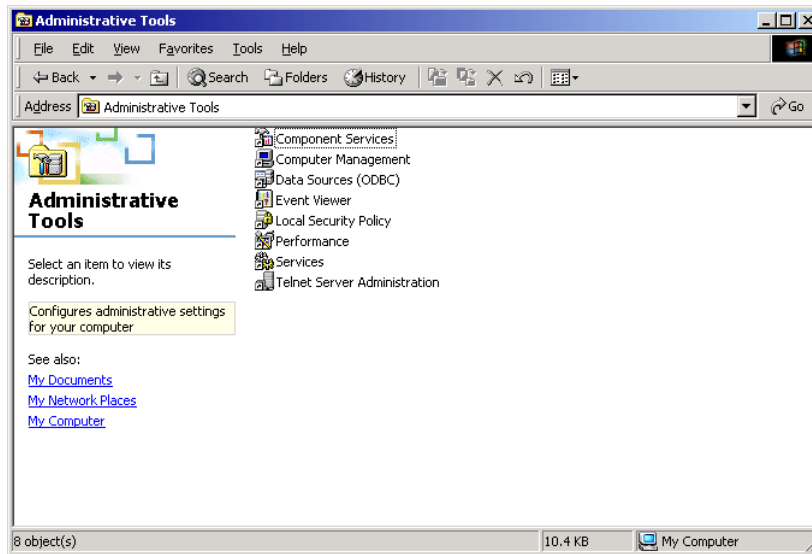
4.5. DSN Creation

Data Source Name(DSN) is required by GEMS to connect to Oracle database.

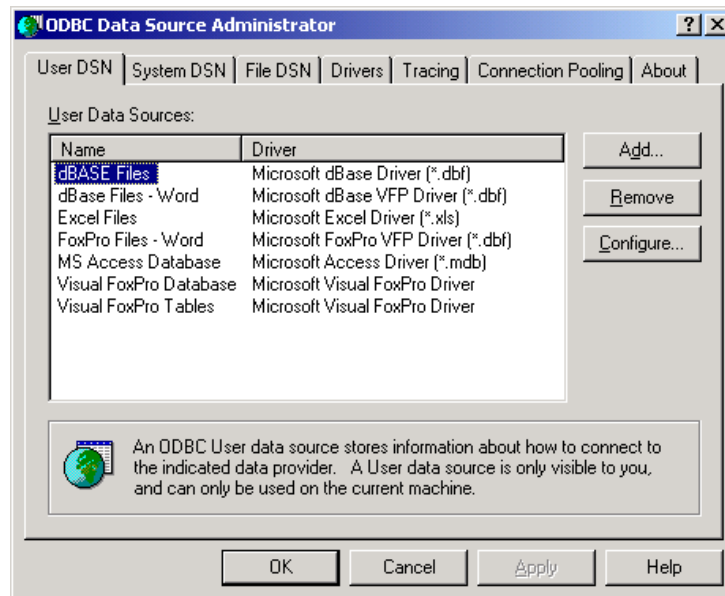
Step 1: Go to Start → Settings → Control Panel and the following screen “Control Panel” appears.



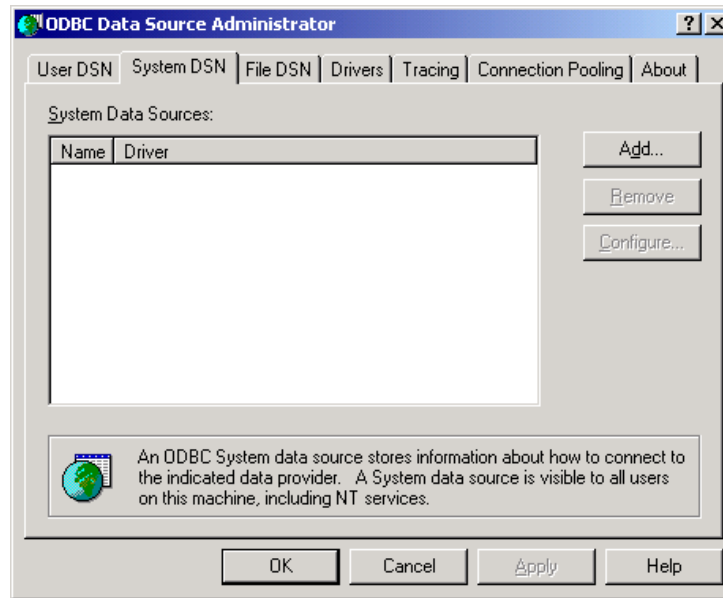
Step 2: Click <Administrative Tools> and the following screen “Administrative Tools” appears.



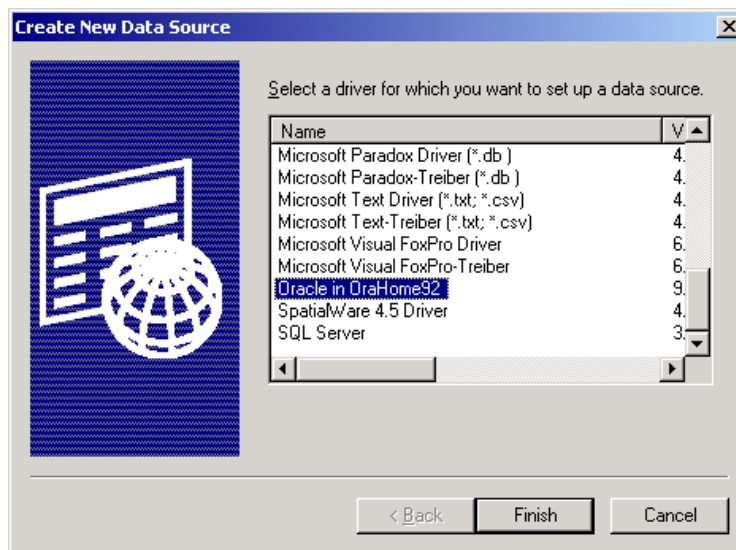
Step 3: Click on <**Data Sources(ODBC)**> and the following screen “ODBC Data Source Administrator” appears.



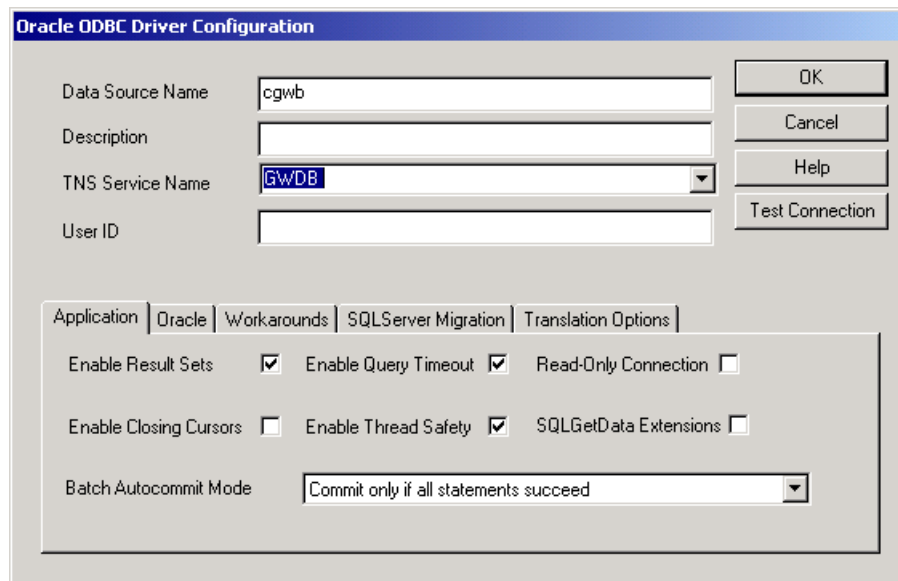
Step 4: Select “System DSN” tab page and the following screen “ODBC Data Source Administrator” with System DSN page opened appears.



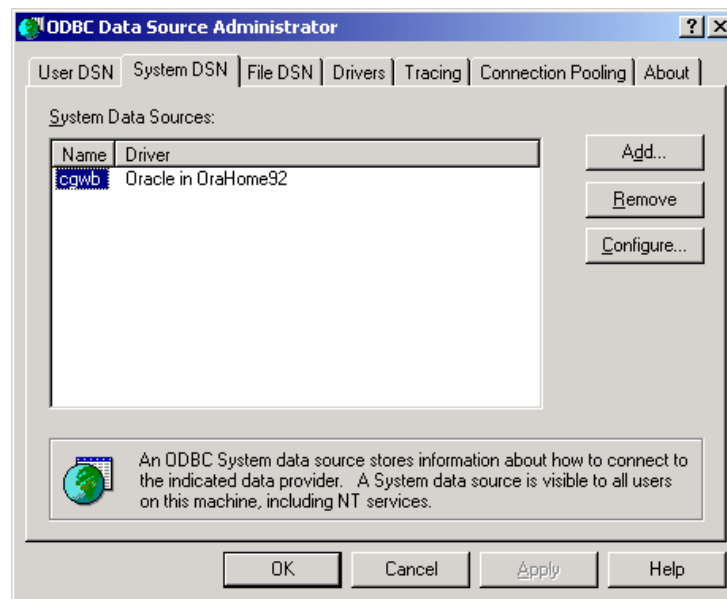
Step 5: Click <Add> and the following screen “Create new Data Source “ appears.



Step 6: Select “Oracle in OraHome92” and click <Finish>. The following screen “Oracle ODBC Driver Configuration appears.”



Step 7: Enter Data Source Name and select the TNS Service Name (from list) and click <OK>. The following screen “ODBC Data Source Administrator” appears showing the new DSN in the list. This DSN name will be required at the time of GEMS installation.



Step 8: Click <OK> to finish the DSN creation.

4.6. Data Script for inserting basic data in database

After loading all the software except GEMS, the most important step is to configure a database, which has all the schemas, database objects, necessary data

for GEMS to execute. This basic data is a pre-requisite for GEMS. The database has been created in section 4.4.2 as discussed in this manual

To insert the necessary data to the database, following script has to be executed.

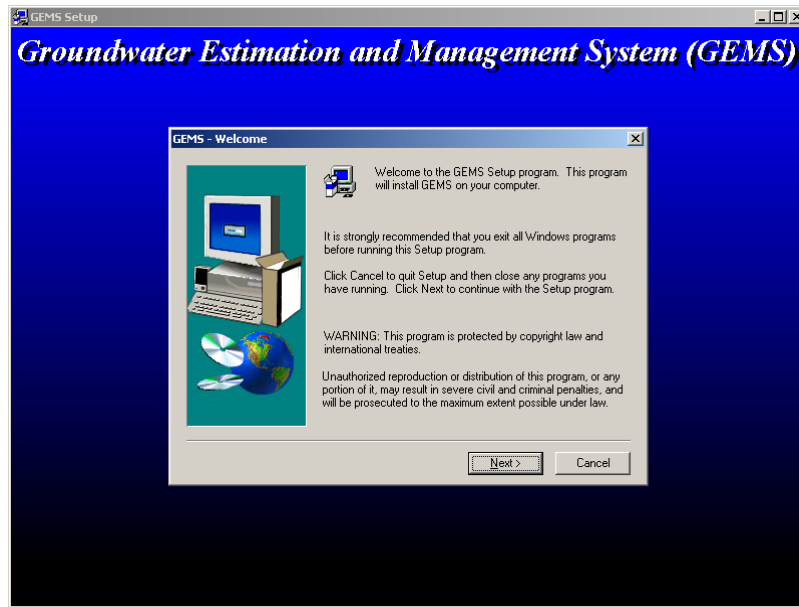
The database script will be executed at the Server on Package A & B and for Package C & D, the script will be executed at the workstation on which Personal Oracle has been installed.

Steps to execute the Database Script

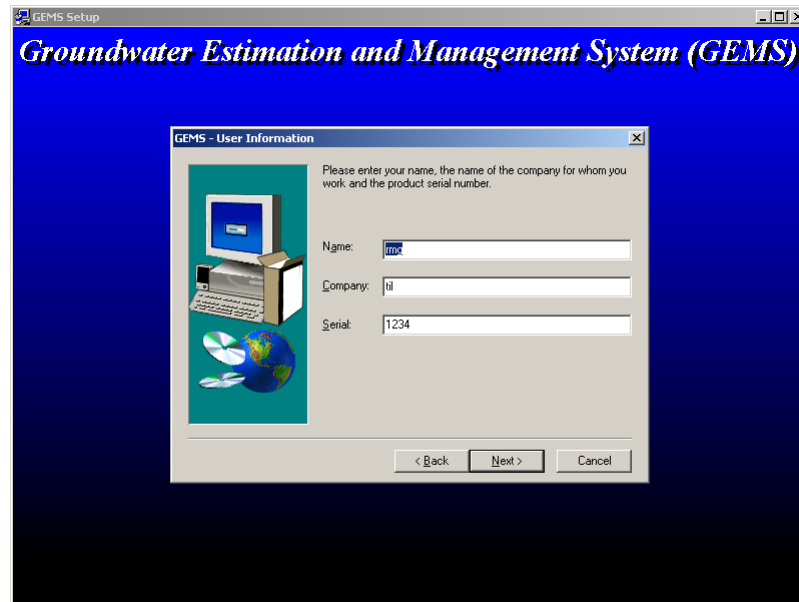
1. Locate **bat** folder in the CD.
2. Open a Command Prompt Window. Command Prompt window can be invoked by clicking Start /Run and enter cmd in the open text box and click on OK
3. Change directory to the **bat** directory in the CD.
4. Execute **setup.bat (setup ↵)**.
(NB: If it says that batch file is already running, then delete C:\firstrun.txt and/or C:\firstinst.txt from C:\ directory)
5. Enter TNS name entry of the Server.
6. It will create 3 schemas and the user will be prompted to supply **Passwords** of **CGWBDEV**, **CGWB** and **CGWBREP** users .
7. The user will be asked for Machine Id. The Machine Id will be the tag number provided by M/s Tata Infotech Limited on the Server Machine in which Oracle Database has been installed(in case of A & B Sites). In case of C & D sites the tag no of the machine on which Oracle Database has been installed will be entered as Machine Id.
8. At last phase, it also asks for the State Id (*cf.* Appendix A(State ID's for Data Script)) for which only the Admin/Hydro data to be kept.
9. After the script finishes, a log file will pop up. (Name of file will be **C:\gemsdb_<date>_<time>.log**). Check for any errors and take action accordingly. (For errors thrown from the script, proper messages would come up. For errors from Oracle, error numbers and messages would come up. Follow the Oracle manual).
10. Create folder **GEMSDBA_Export** in c:\ and **GEMSDBA** in c:\ **GEMSDBA_Export** at A & B sites.
11. Create of default FTP Site at **C:\GEMSDBA_Export\GEMSDBA** at the Server.
12. Create an FTP user.

4.7. GEMS Installation

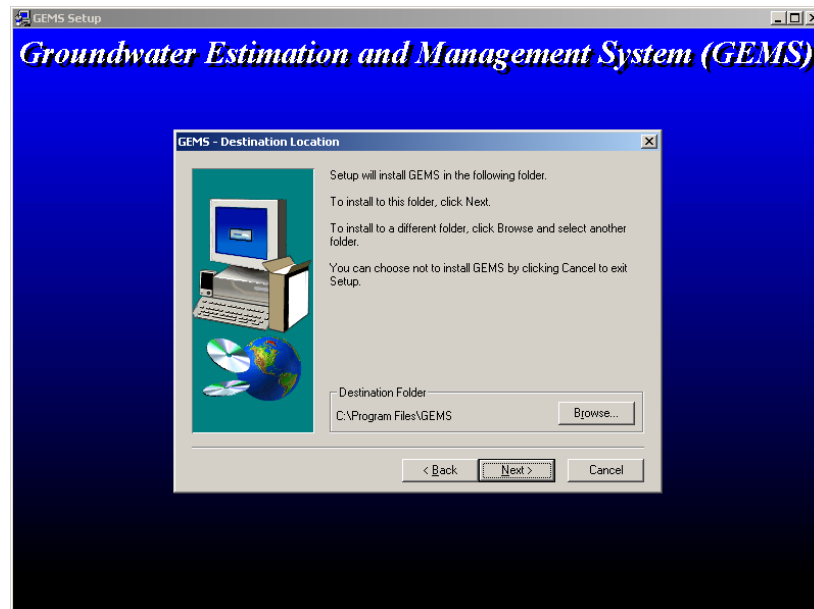
Step 1: Insert the GEMS CD and double click on the SETUP.exe file. The wizard starts and the following screen “Gems-Welcome” appears.



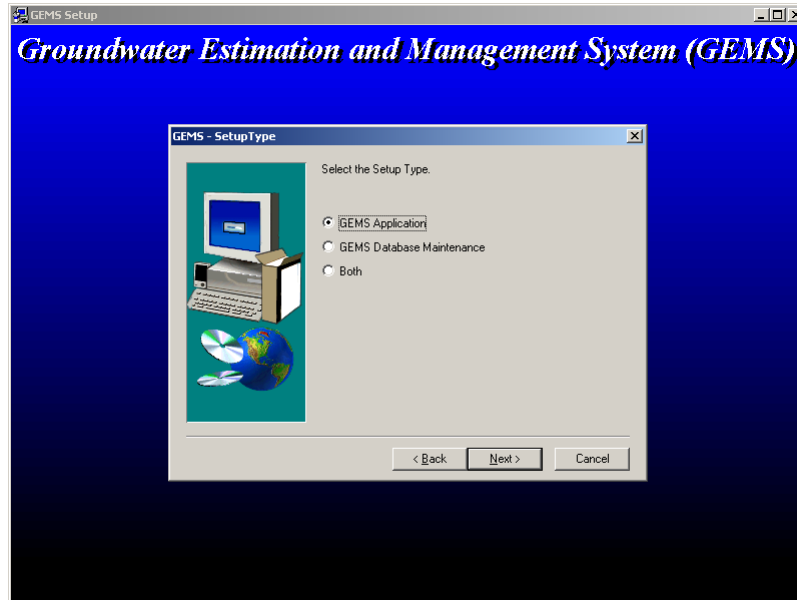
Step 2: Click <Next>, the following screen “GEMS User Information” appears.



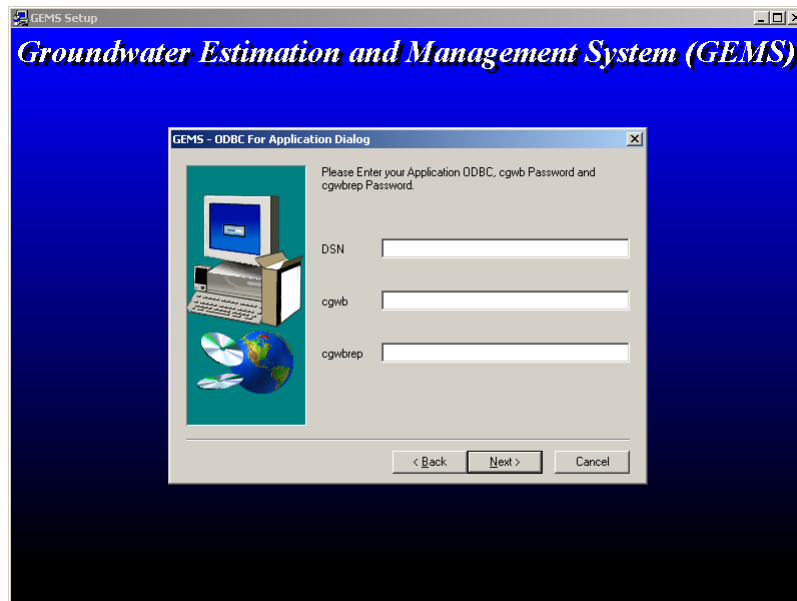
Step 3: Enter the Name of the user, Company Name and the Serial No as supplied with the CD and click <Next> the following screen “GEMS Destination Location” appears.



Step 4: The destination folder of the application can be set on the above screen. The setup by default sets the path as c:\program files \gems which can be left as it is and can be changed also. Click <Next> the following screen “GEMS SetupType” appears.



Step 5: The user can select the application to be installed. It can be GEMS Application, GEMS Database Maintenance or Both of them. If GEMS Application is selected then clicking <Next> the following screen “GEMS ODBC for Application Dialog” appears.



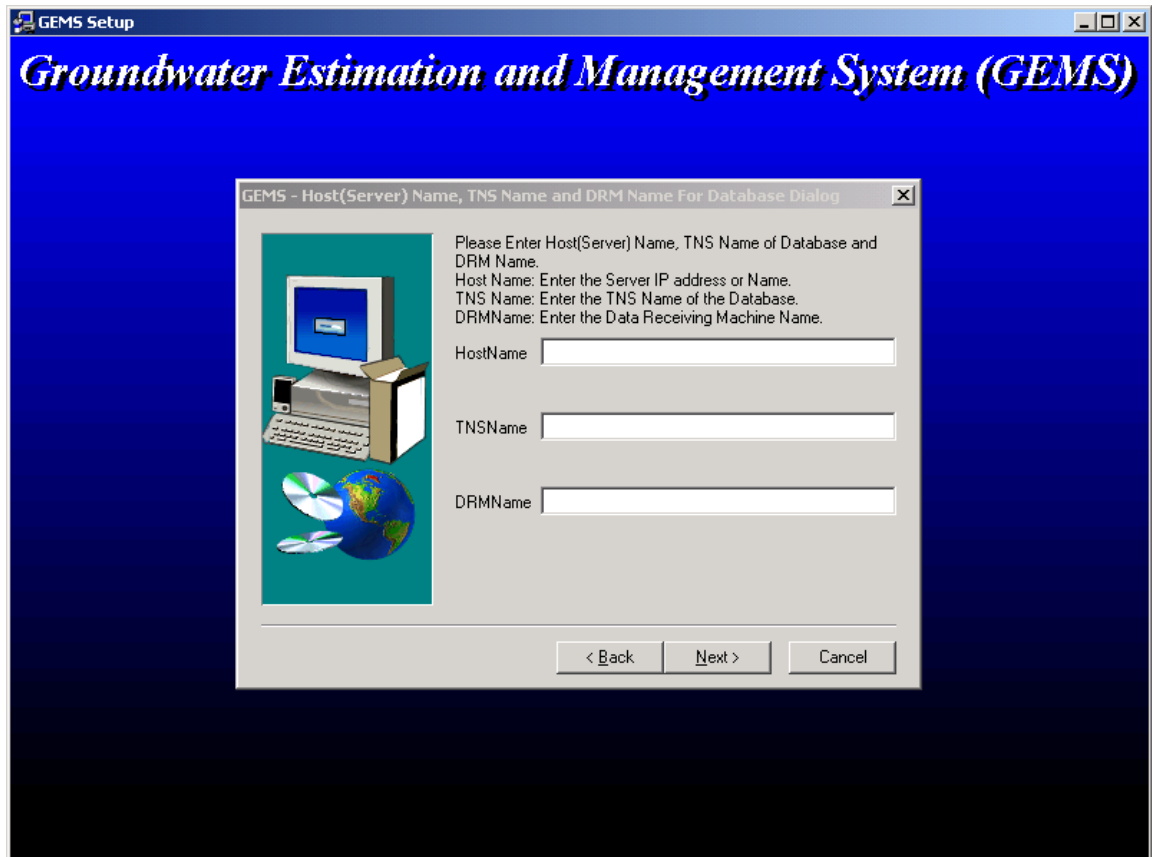
Step 6: Enter the following details

DSN Name : The DSN Name as created.

Password for cgwb : nepzsrđ

Password for cgwbrep: cgwbrep

Step 7: If in GEMS SetupType screen “GEMS Database Maintenance” is selected then on clicking <Next> the following screen “GEMS-Host(Server) Name, TNS Name and DRM Name for Database Dialog” appears .



Step 8: Enter the following details

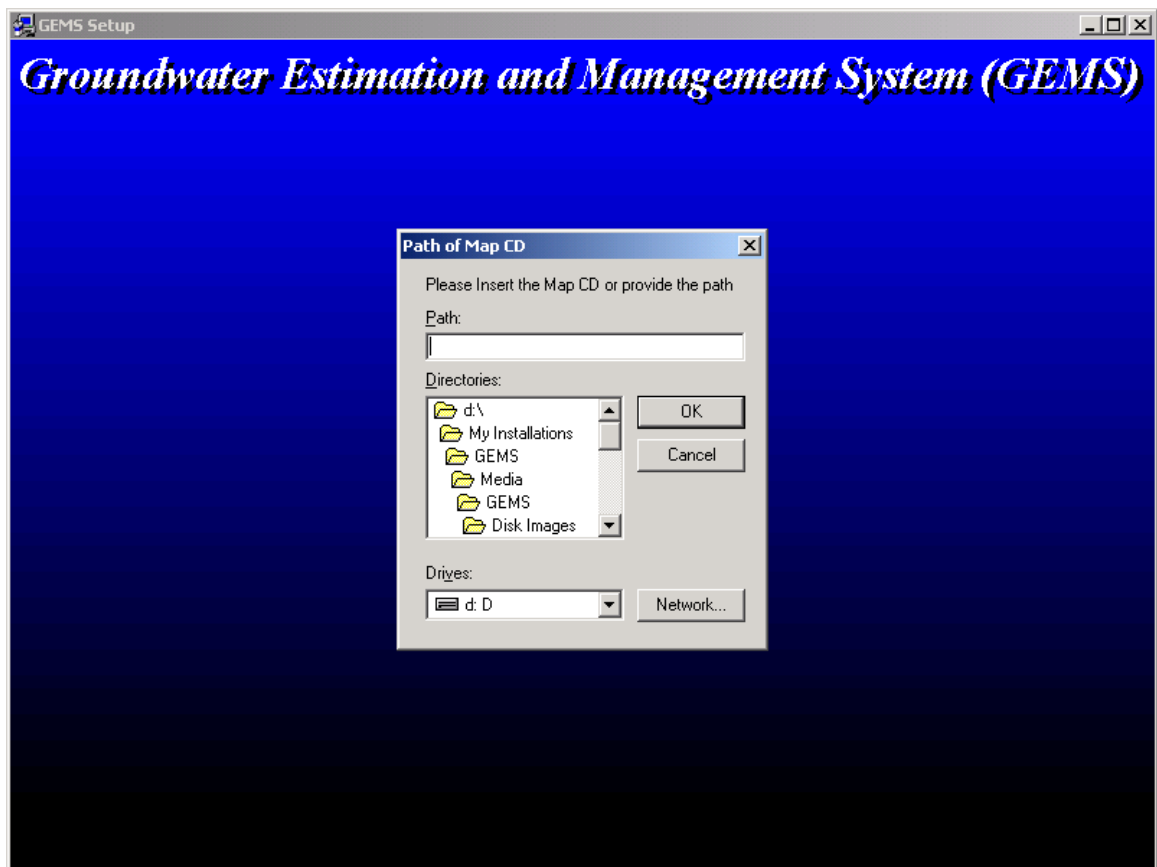
HostName: Name of the Server or IP Address of the Server.

TNSName: Same as the Service Name entered in Step 12 of “Oracle 9i release 2 Net Configuration”.

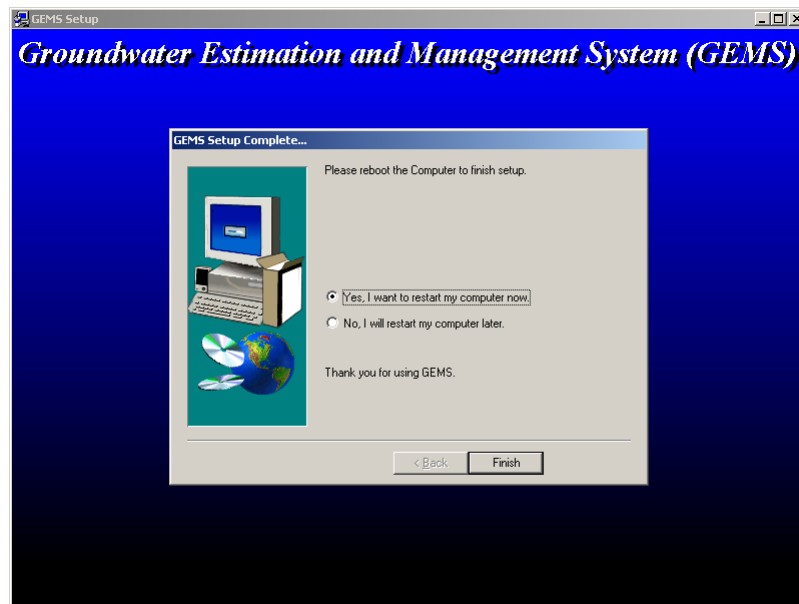
DRMName: The name of the machine that will be used for Receiving Data.

Click <Next> and “GEMS ODBC for Application Dialog” screen appears. Fill in details for this screen as discussed in Step-6.

Step 9: If in GEMS SetupType screen “Both is selected “ then details in “GEMS ODBC for Application Dialog “ screen and “GEMS-Host(Server) Name, TNS Name and DRM Name for Database Dialog” screen will have to be provided as in step 6 and Step 8. After providing the details in any of the SetupType click <Next> and the installation starts with a progress bar showing the amount of installation completed. When the installation completes the following screen “Information” appears.



Step 10: Enter Map data CD and select the path of the CD Drive which can be on the same PC or on some other PC on the network. Click <OK> and map data will be copied and the following screen “GEMS Setup Complete” will appear. If the path selected is wrong then the user will be prompted to select the correct path.



Step 11 : Select “Yes, I want to restart my computer now” and click <**Finish**>. This completes the GEMS installation.

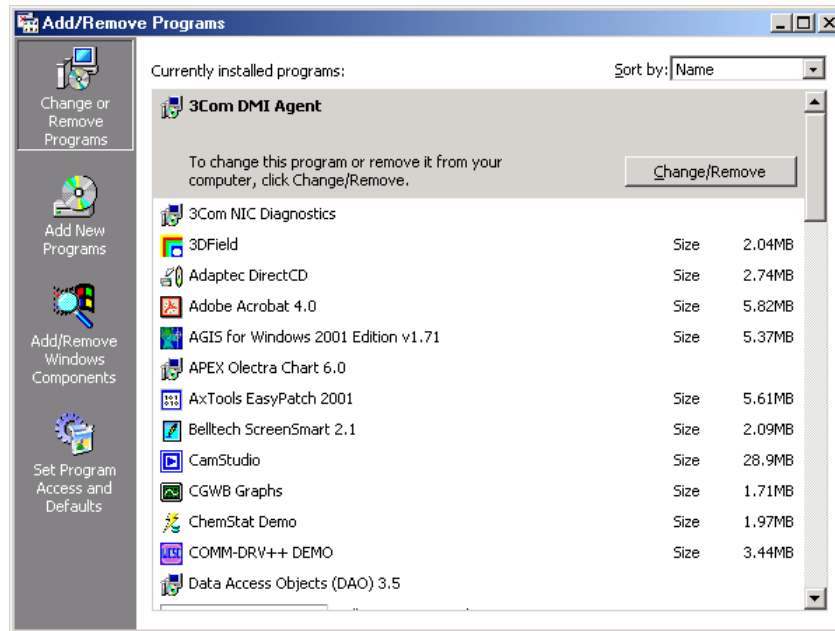
Step 12: After restarting the computer login in GEMS and change Machine Parameters as per the requirement.

This completes the installation of software.

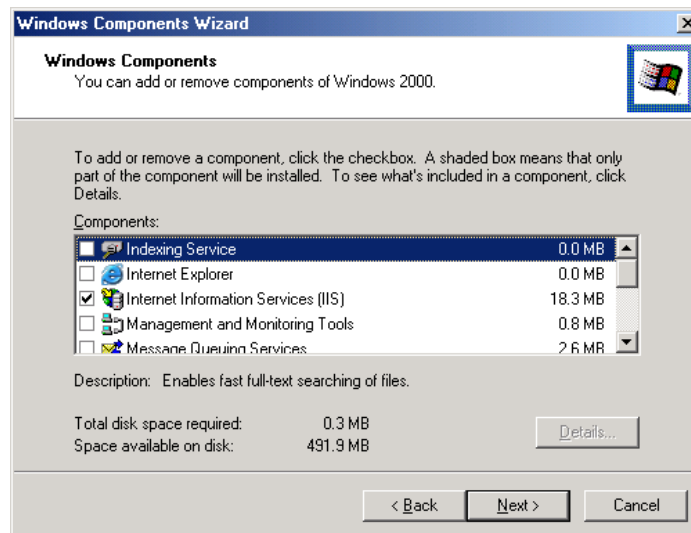
4.8. Appendix A

FTP Server Installation

Step 1: For FTP Server IIS needs to be installed. To install IIS go to Control Panel and click on Add/Remove Programs. The following screen “Add/Remove Programs” appears.

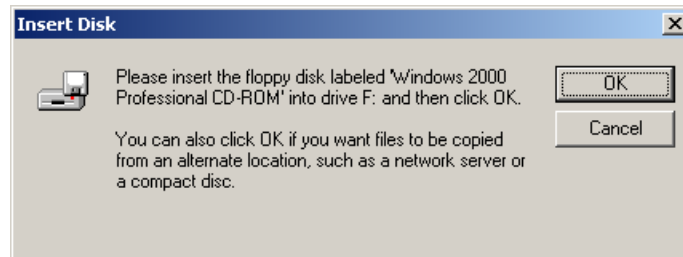


Step 2: On the above screen click on <Add/Remove Windows Components>. The following screen “Windows Component Wizard” appears.

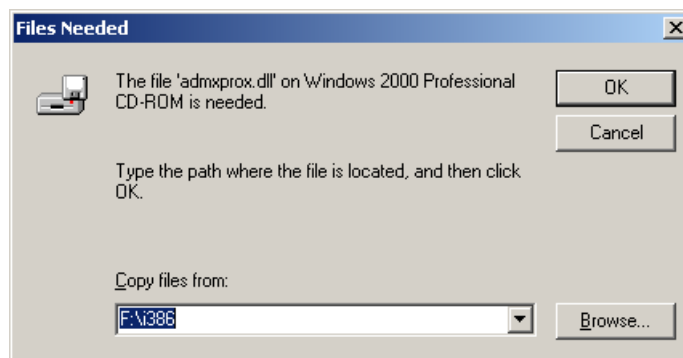


Step3 : On the above screen check <**Internet Information Services(IIS)**> and uncheck all the other components if checked. Click <**Next**> and the installation starts.

Step4: If the System asks for “Windows 2000 Professional CD” as in the following screen “Insert Disk”.



Step 5: Enter the CD and click <**OK**>. If the system does not detects the CD automatically the following screen “Files Needed” appears.

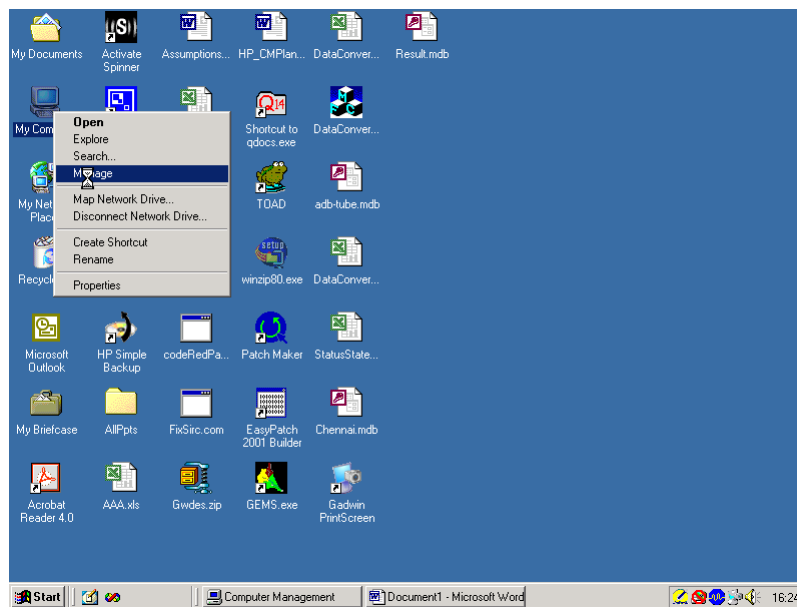


Step 6: Select the path through <**Browse**> and click <**OK**>. The installation resumes and in the end the following screen “Windows Component Wizard” appears.

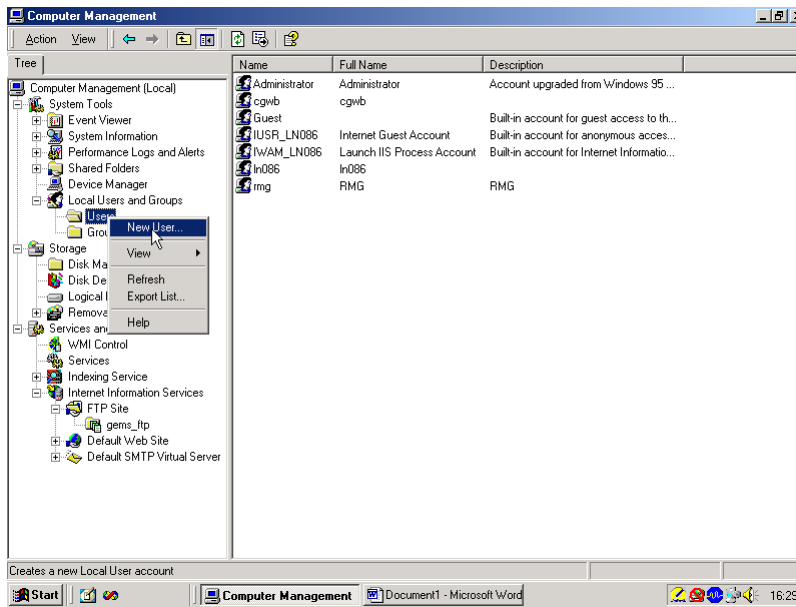


Step 7: Click <Finish>.

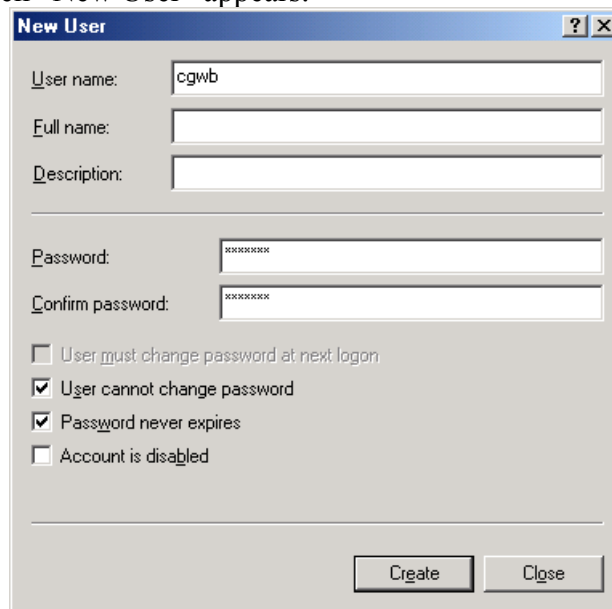
Step 8: On the Desktop right click <My Computer> as in the following screen.



Step 9: On the menu which appears after right clicking My Computer select <Manage>. The following screen “Computer Management” appears.

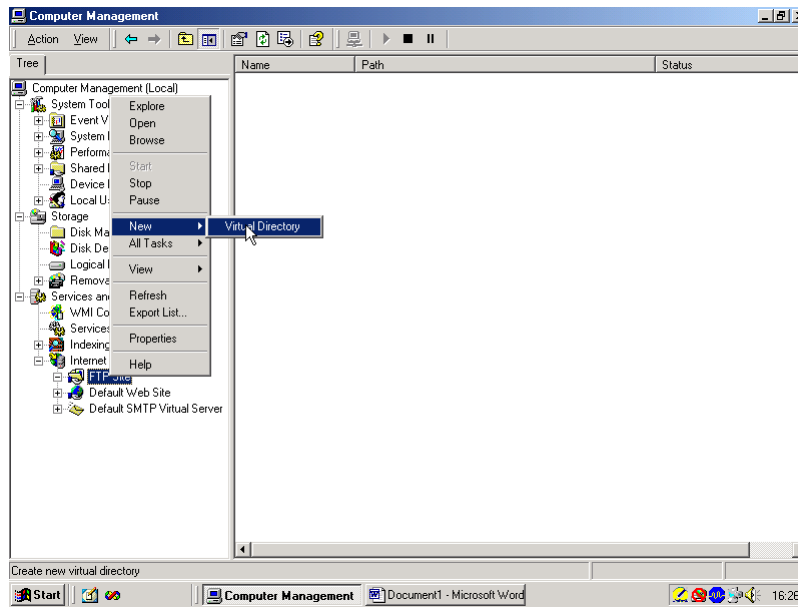


Step 10: In the above screen On the Tree Listing click <Local User and Groups>. Under that right click <Users> and select <New User> from the menu. The following screen “New User” appears.



Step 11: Enter the User Name. Give a password and confirm the password. Check <User cannot change password> and <Password never expires>. Click <Create>.

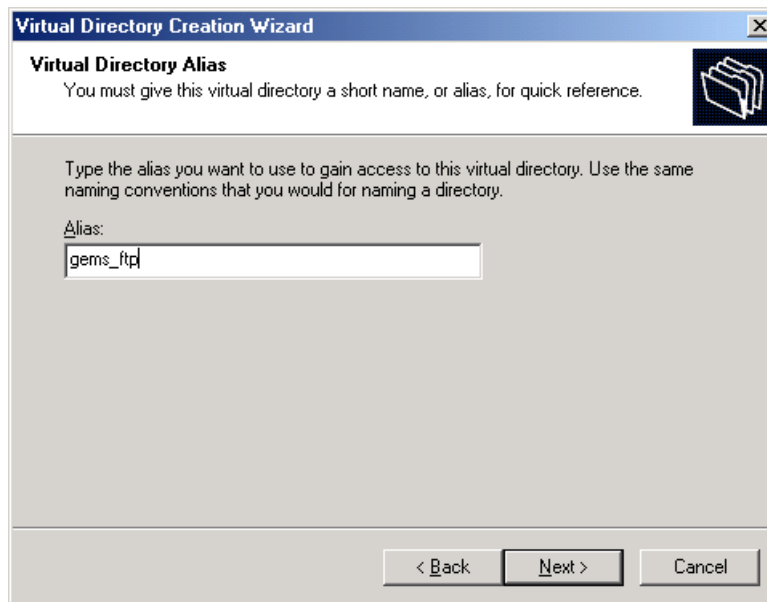
Step 12: On the Tree listing right click <FTP Site> which is under <Internet Information Services> which again is under <Services and Applications> as in the following screen “Computer management”



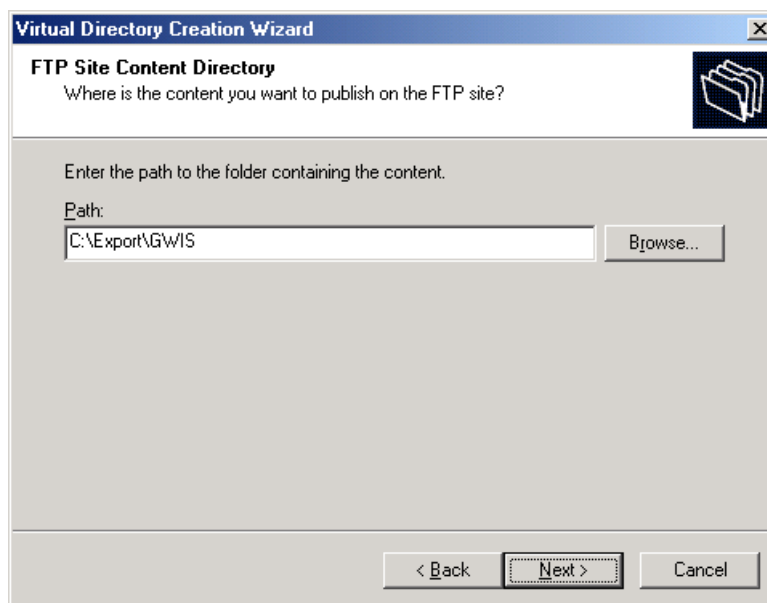
Step 13: On the menu select <New> and then <Virtual Directory>. The following wizard “Virtual Directory Creation Wizard” starts as in the following screen.



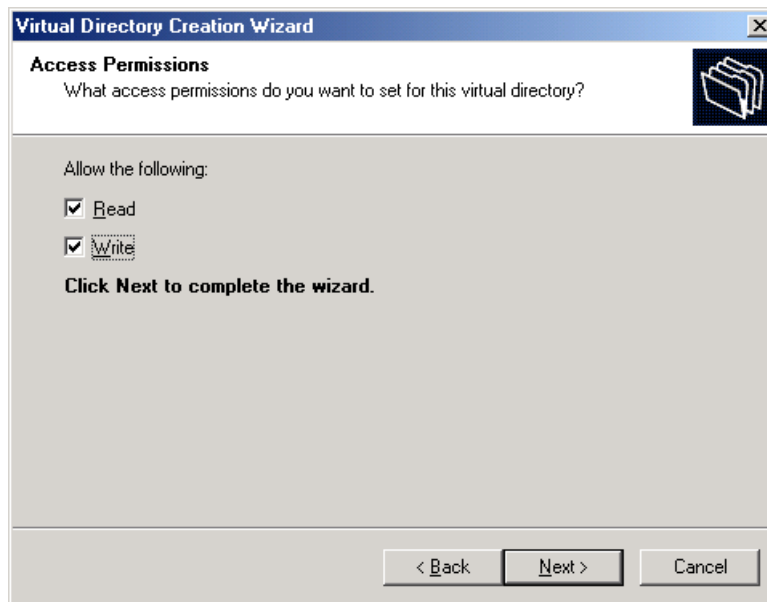
Step 14: Click <Next>. The following screen of the wizard appears.



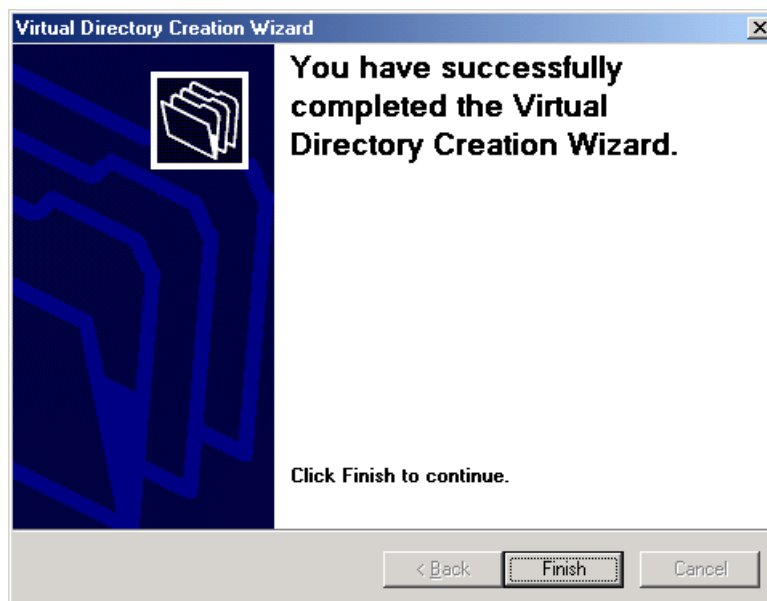
Step 15: Enter name and click <Next>. The following screen appears.



Step 16: Enter the path as "C:\Export\GWIS". Click <Next> the following screen appears.

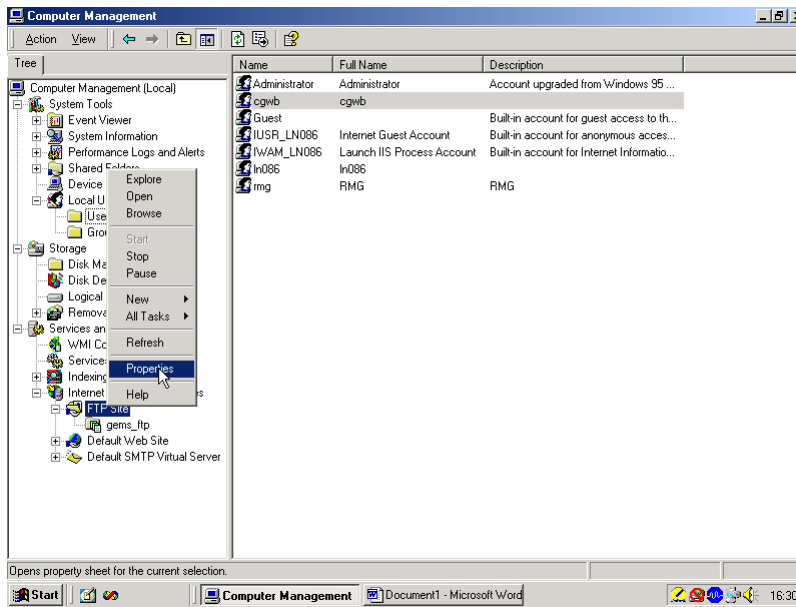


Step 17: Check <Read> and <Write>. Click <Next> and the installation starts and in the end the following screen appears.

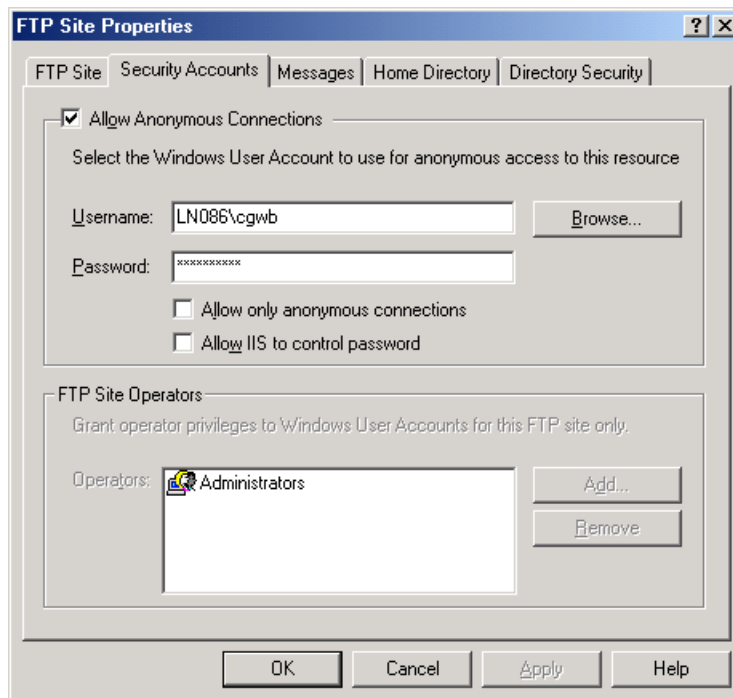


Step 18: Click <Finish>.

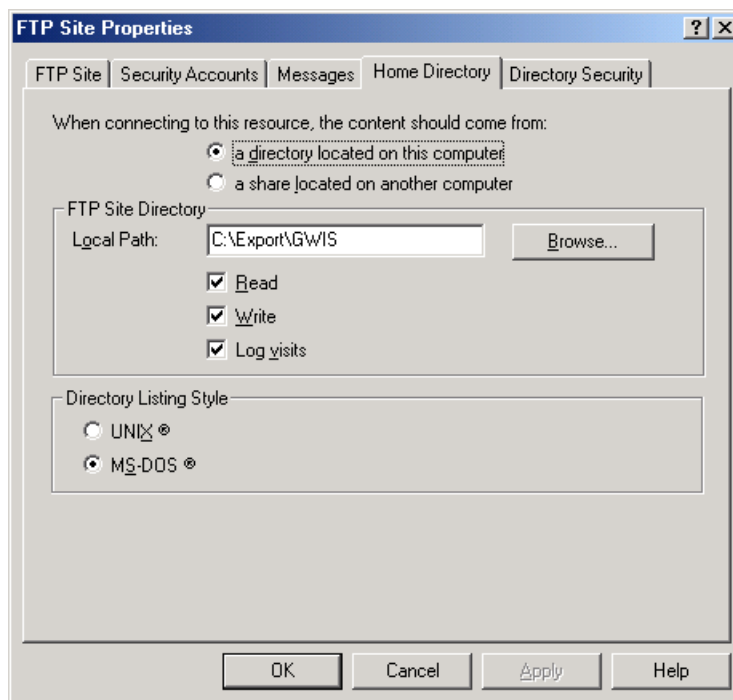
Step 19: In the Computer Management screen in the Tree listing right click <FTP Site> which is under <Internet Information Services> which again is under <Services and Applications> as in the following screen “Computer management”



Step 20: In the menu select <Properties> and the following screen “FTP Site Properties” appears.



Step 21: Select <Security Accounts> tab page and enter the following detail.
 Username : Computer Name\User Name(as created earlier in Step 11)
 Password: Enter password
 Select <Home Directory> tab page and the following screen appears.



Step 18: Select **<a directory located on this computer>** and enter the following detail on the above screen.

Local Path: C:\Export\GWIS

Check **<Read>**, **<Write>** and **<Log Visits>**

Under Directory Listing Style select **<MS-DOS>**

Click **<OK>**

State ID's for Data Script

M_STATE_ID	M_STATE_NAME
101	Jammu and Kashmir
102	Himachal Pradesh
103	Punjab
104	Chandigarh
105	Uttaranchal
106	Haryana
107	Delhi
108	Rajasthan
109	Uttar Pradesh
110	Bihar
111	Sikkim
112	Arunachal Pradesh
113	Nagaland

114	Manipur
115	Mizoram
116	Tripura
117	Meghalaya
118	Assam
119	West Bengal
120	Jharkhand
121	Orissa
122	Chhattisgarh
123	Madhya Pradesh
124	Gujarat
125	Daman and Diu
126	Dadra and Nagar Haveli
127	Maharashtra
128	Andhra Pradesh
129	Karnataka
130	Goa
131	Lakshadweep
132	Kerala
133	Tamil Nadu
134	Pondicherry
135	Andaman and Nicobar