

COSTOS V

Enterprise Server

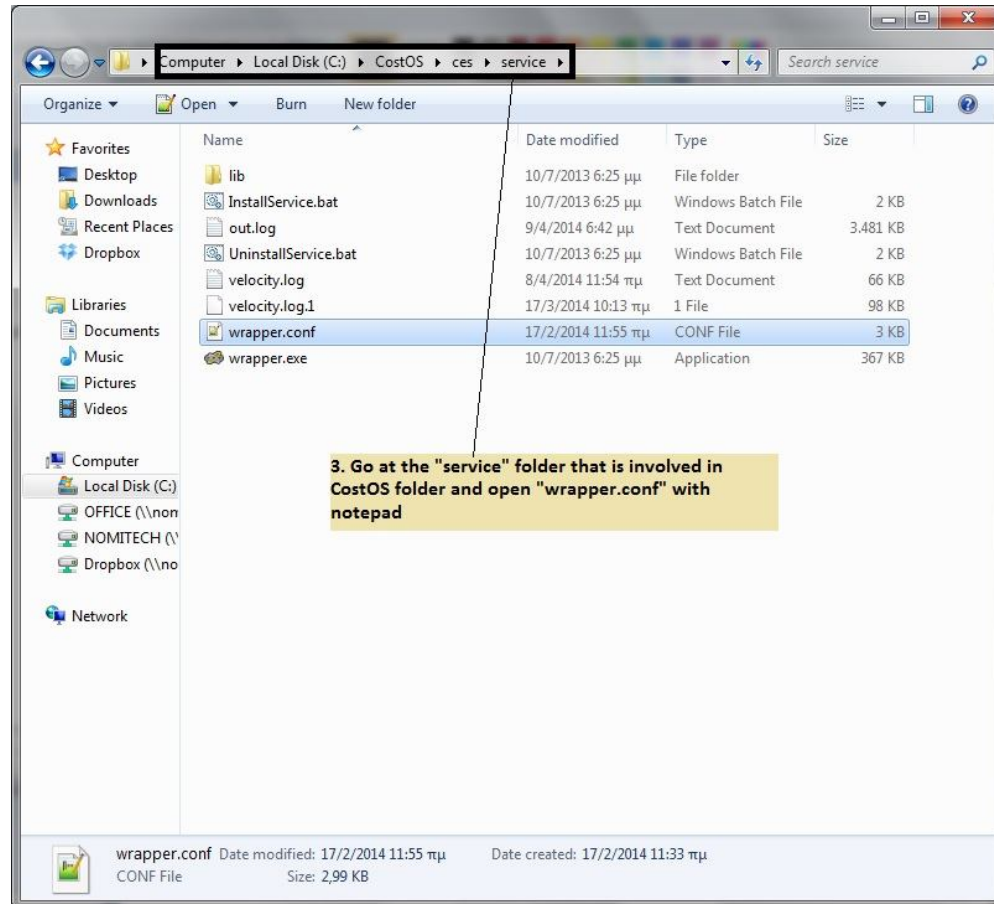
Installation Guide

When SQL Server and CostOS Server
run on different machines

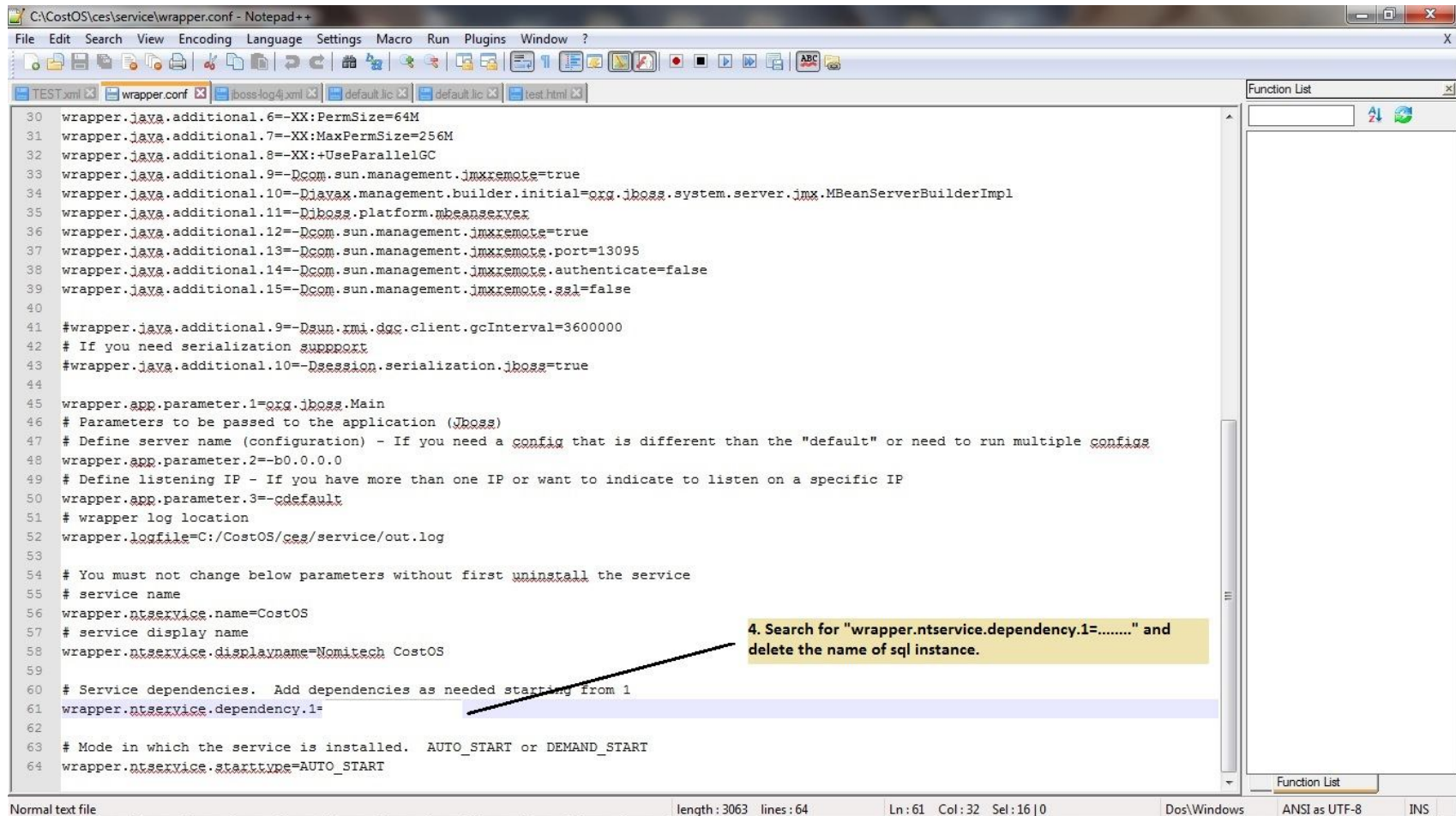
Before any configuration

- Copy **CostOS** folder in the C: drive, of the App server. **CostOS** folder is included in the link that I sent you

Step 1



Step 2



The screenshot shows a Notepad++ window with the file `C:\CostOS\ces\service\wrapper.conf` open. The text in the editor is as follows:

```
30 wrapper.java.additional.6=-XX:PermSize=64M
31 wrapper.java.additional.7=-XX:MaxPermSize=256M
32 wrapper.java.additional.8=-XX:+UseParallelGC
33 wrapper.java.additional.9=-Dcom.sun.management.jmxremote=true
34 wrapper.java.additional.10=-Djavax.management.builder.initial=org.jboss.system.server.jmx.MBeanServerBuilderImpl
35 wrapper.java.additional.11=-Djboss.platform.mbeanserver
36 wrapper.java.additional.12=-Dcom.sun.management.jmxremote=true
37 wrapper.java.additional.13=-Dcom.sun.management.jmxremote.port=13095
38 wrapper.java.additional.14=-Dcom.sun.management.jmxremote.authenticate=false
39 wrapper.java.additional.15=-Dcom.sun.management.jmxremote.ssl=false
40
41 #wrapper.java.additional.9=-Dsun.rmi.dgc.client.gcInterval=3600000
42 # If you need serialization support
43 #wrapper.java.additional.10=-Dsession.serialization.jboss=true
44
45 wrapper.app.parameter.1=org.jboss.Main
46 # Parameters to be passed to the application (Jboss)
47 # Define server name (configuration) - If you need a config that is different than the "default" or need to run multiple configs
48 wrapper.app.parameter.2=-b0.0.0.0
49 # Define listening IP - If you have more than one IP or want to indicate to listen on a specific IP
50 wrapper.app.parameter.3=-cdefault
51 # wrapper log location
52 wrapper.logfile=C:/CostOS/ces/service/out.log
53
54 # You must not change below parameters without first uninstall the service
55 # service name
56 wrapper.ntservice.name=CostOS
57 # service display name
58 wrapper.ntservice.displayName=Nomitech CostOS
59
60 # Service dependencies. Add dependencies as needed starting from 1
61 wrapper.ntservice.dependency.1=
62
63 # Mode in which the service is installed. AUTO_START or DEMAND_START
64 wrapper.ntservice.starttype=AUTO_START
```

A yellow callout box with the text "4. Search for "wrapper.ntservice.dependency.1=....." and delete the name of sql instance." points to line 61. The text on line 61 is currently empty.

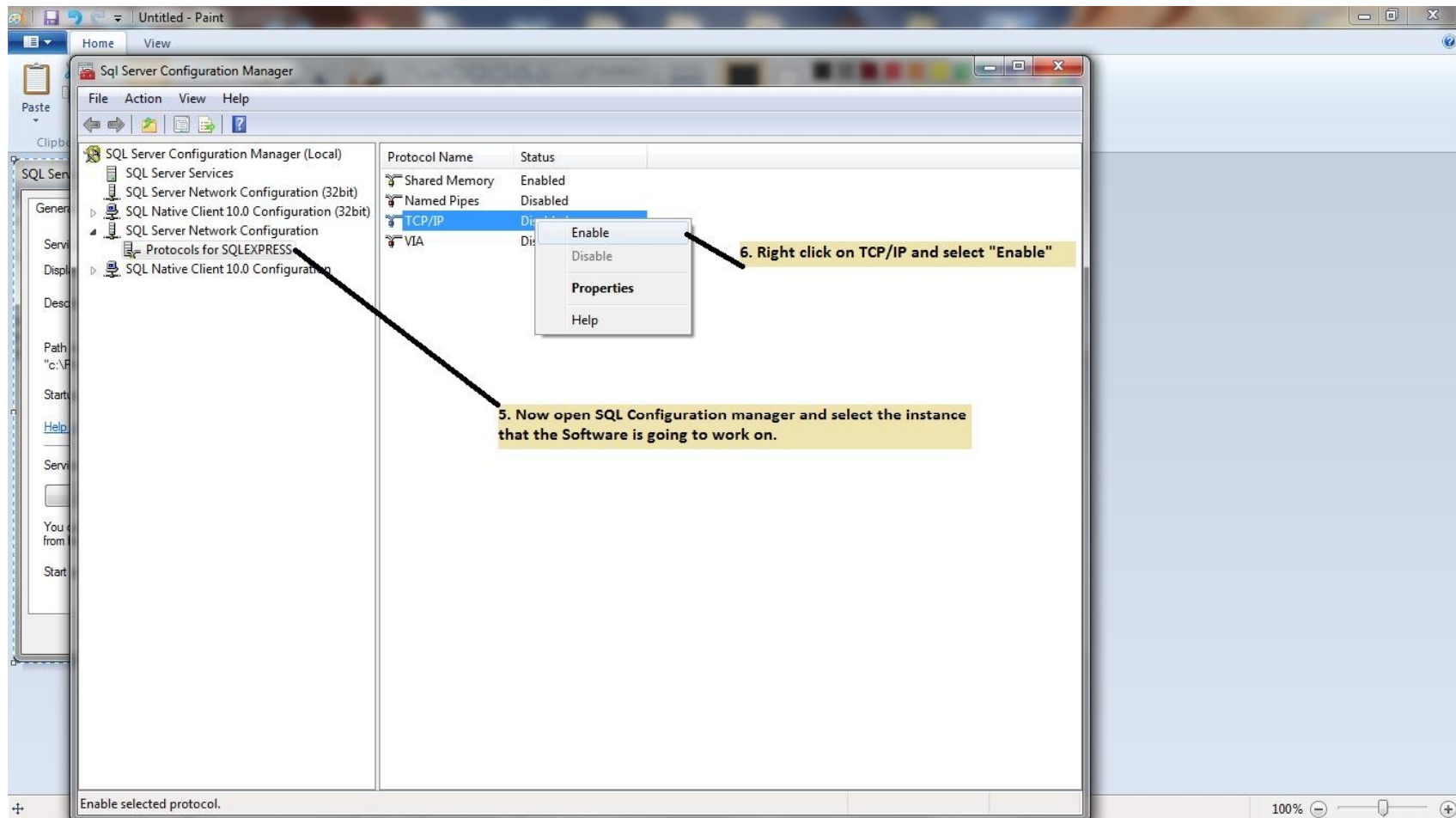
At the bottom of the window, the status bar shows: "Normal text file", "length: 3063 lines: 64", "Ln: 61 Col: 32 Sel: 16 | 0", "Dos\Windows", "ANSI as UTF-8", and "INS".

Step 3

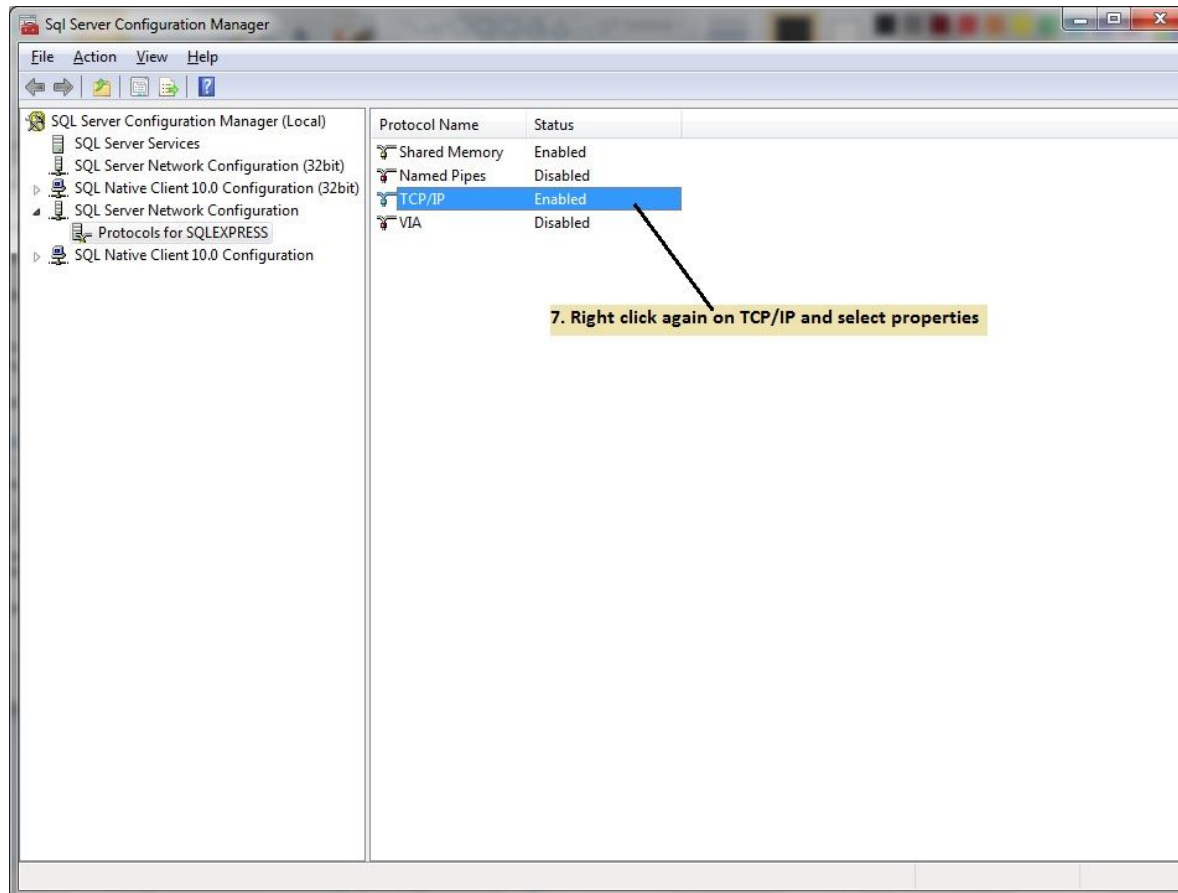
- Now follow the next steps from the machine that the SQL Server runs

Step 4

Open SQL Configuration Manager from SQL server and enable the instance such as the following image.



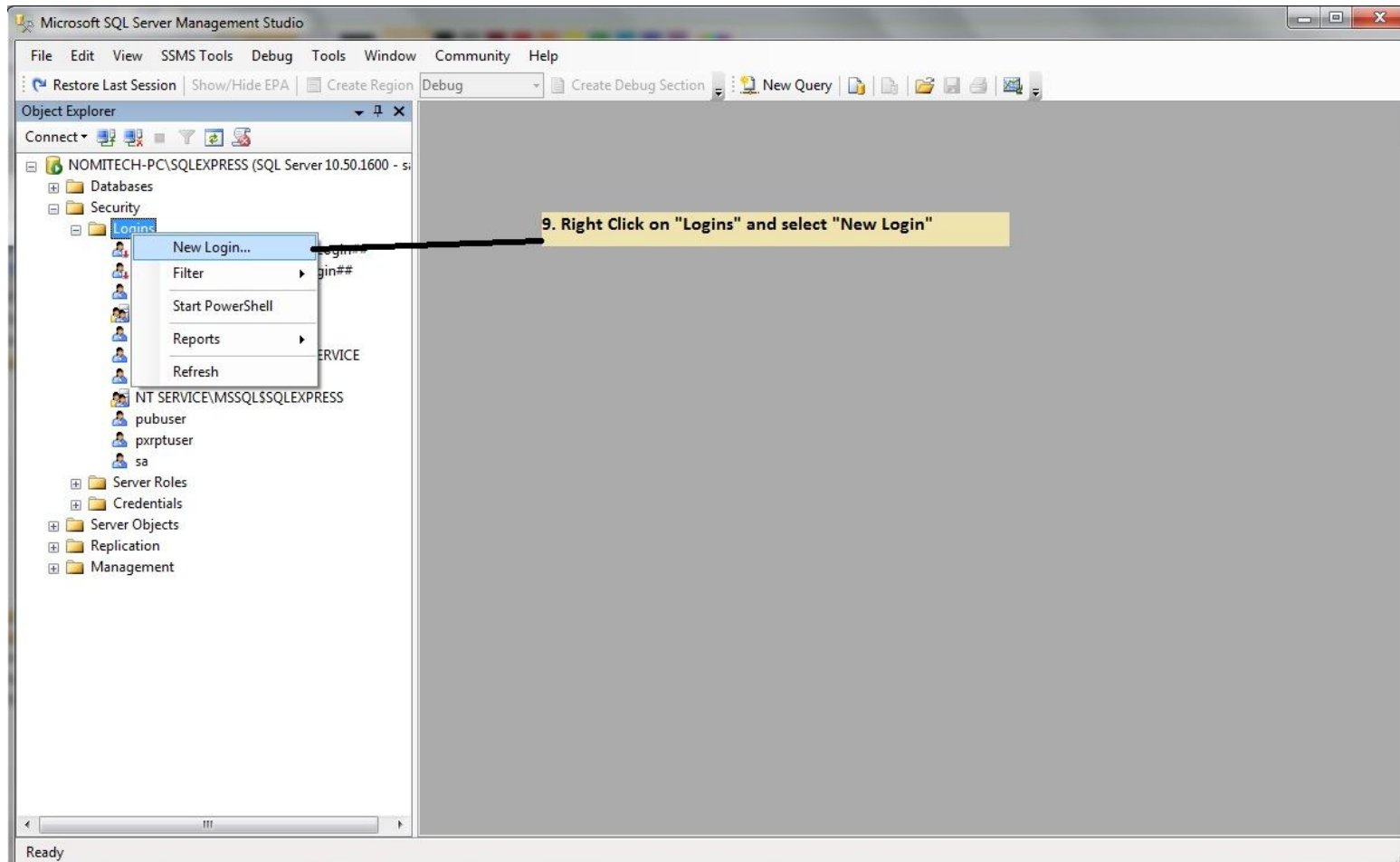
Step 5



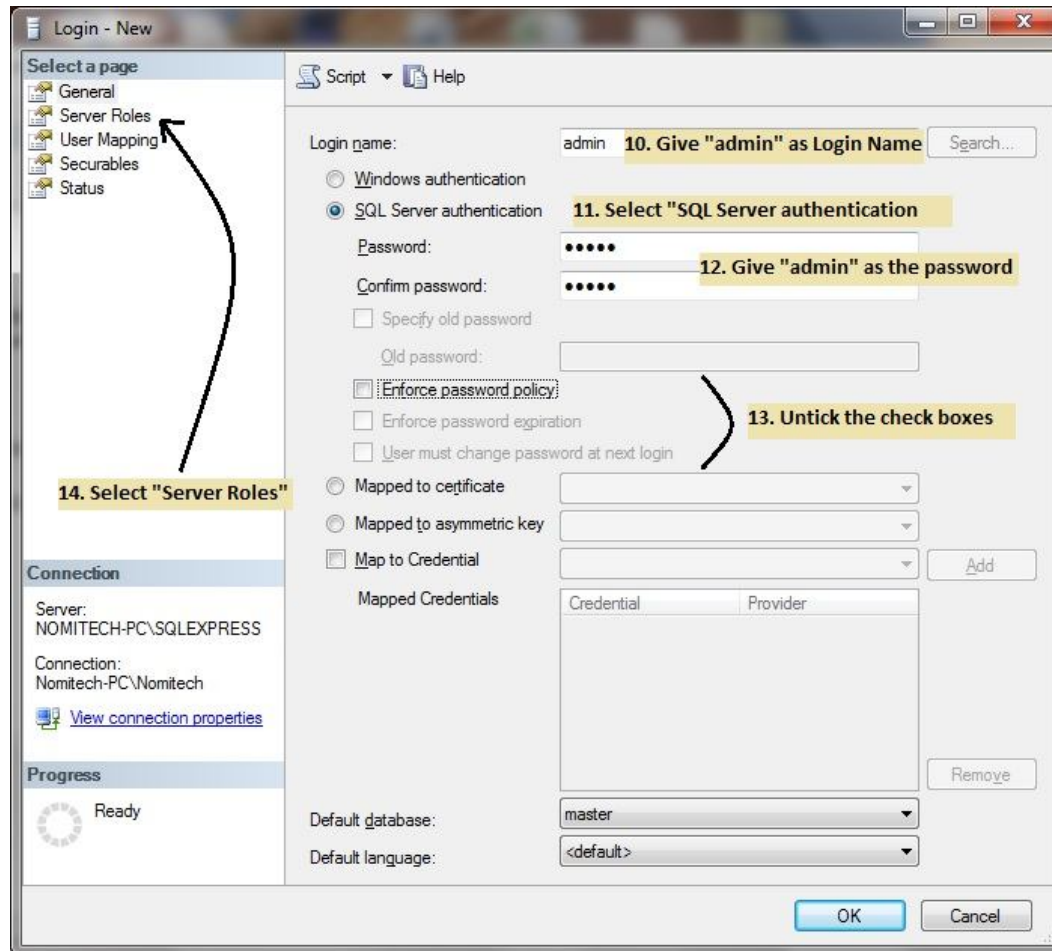
Step 7 – Open SQL Server Management Studio



Step 8

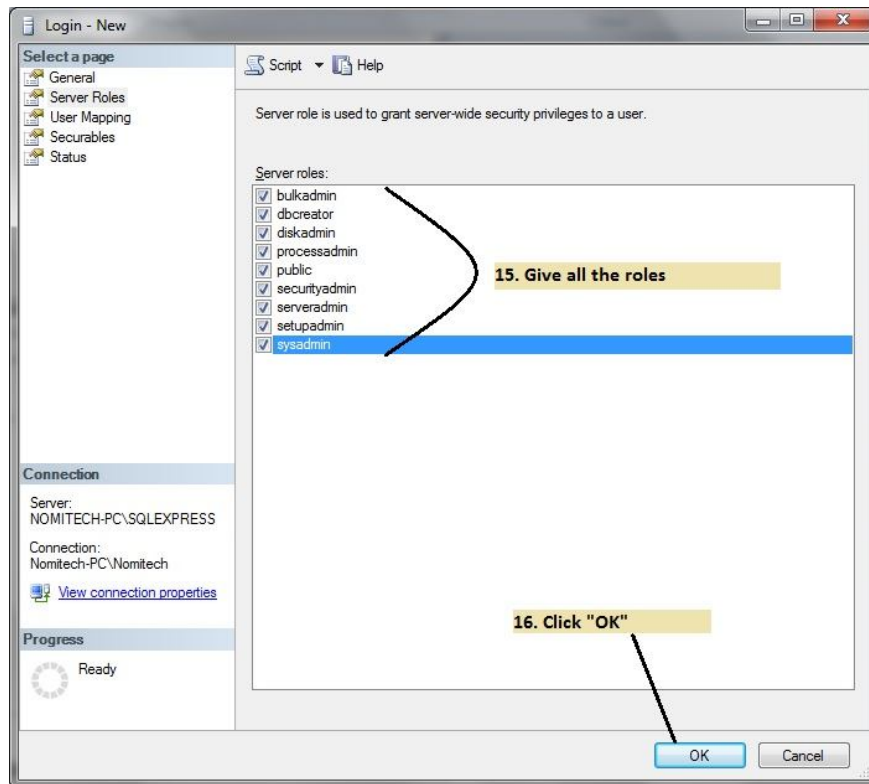


Step 9

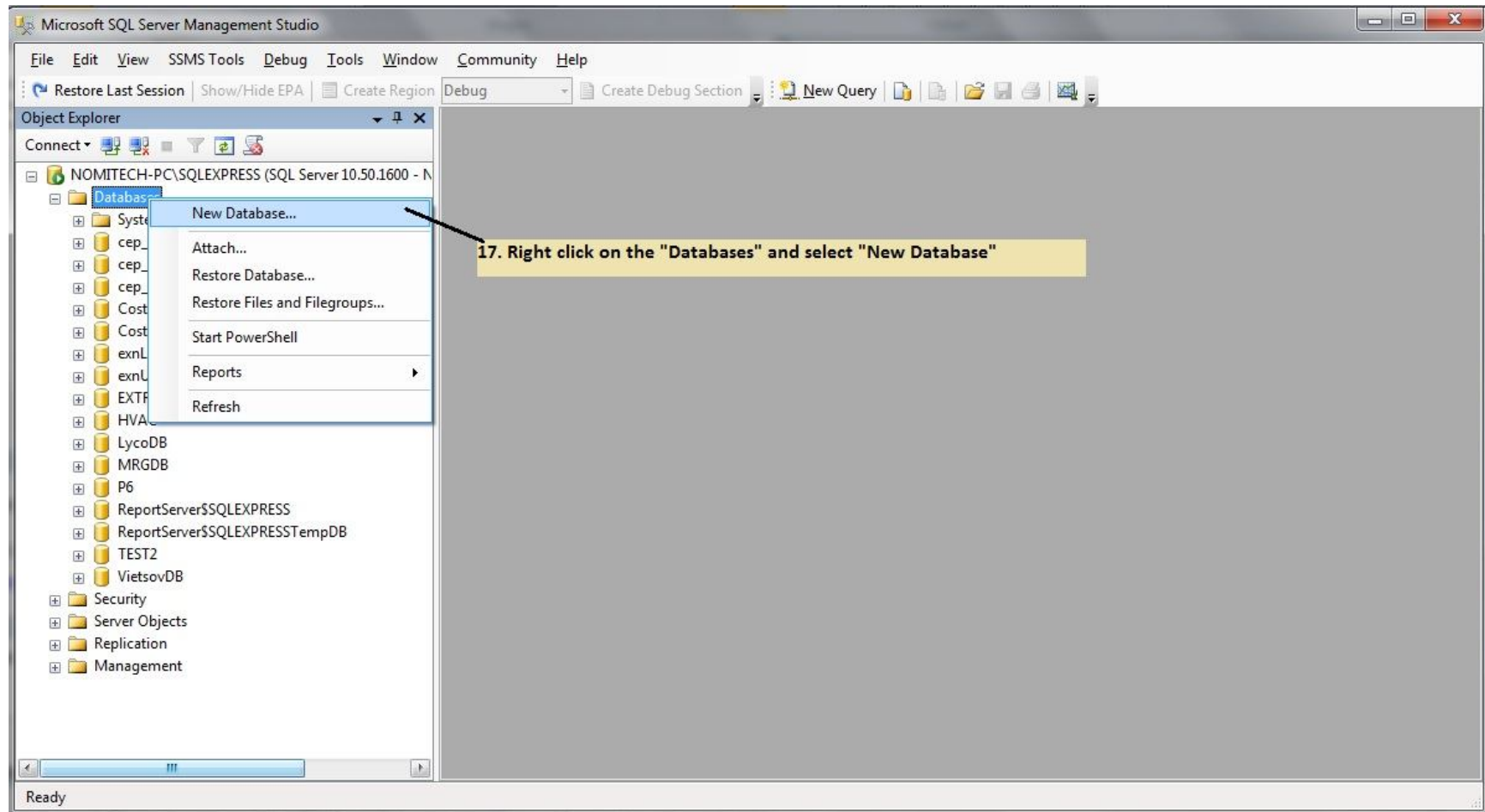


Step 10

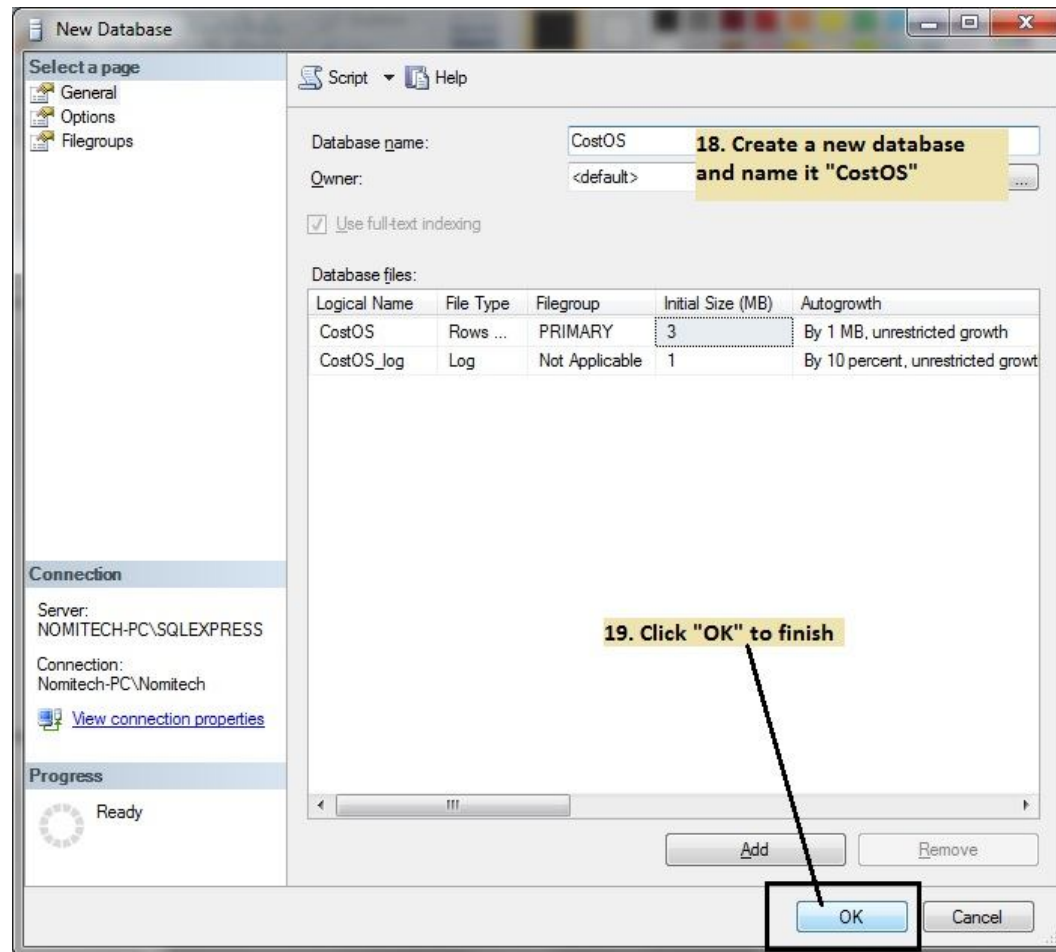
Give all the roles or just the *sysadmin*, *dbcreator* and *public*.



Step 11



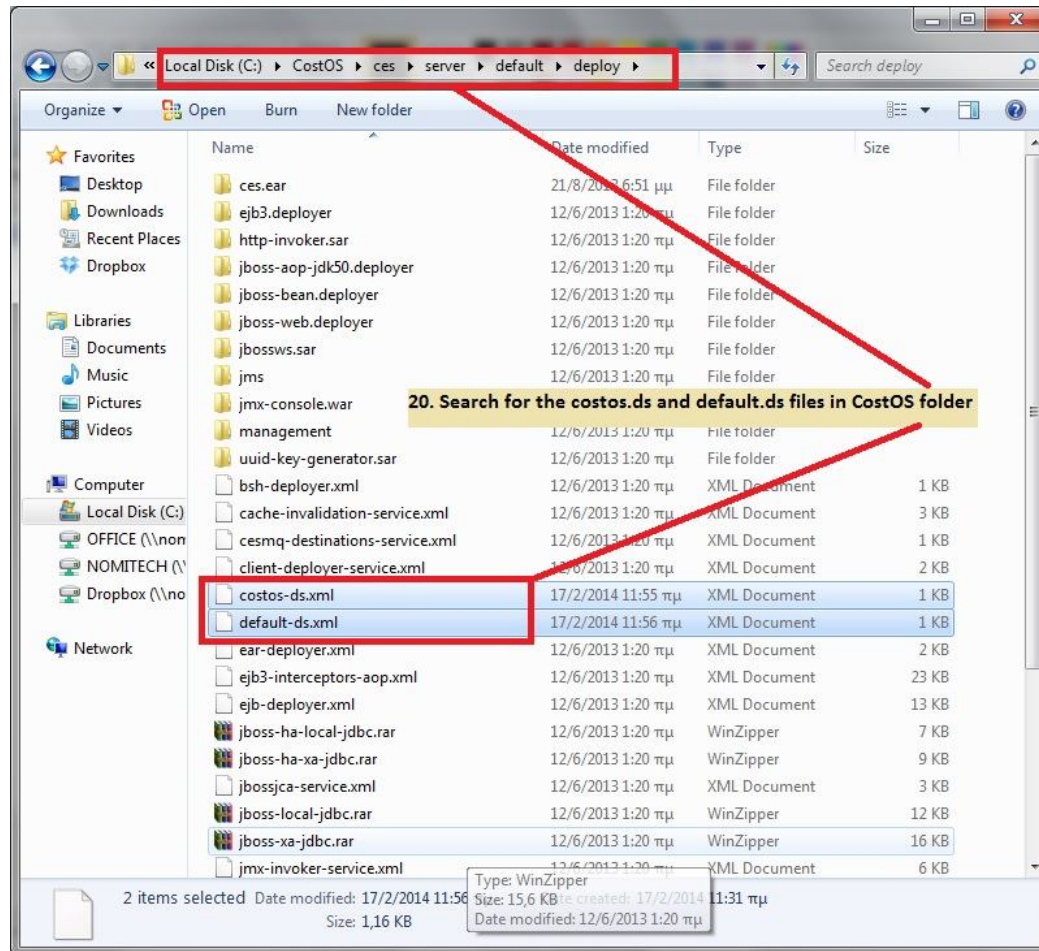
Step 12



Step 13

- Follow the next steps from App server.

Step 14



Step 15

The image shows a Notepad++ window editing the file `C:\CostOS\ces\server\default\deploy\costos-ds.xml`. The XML content is as follows:

```
1 <?xml version="1.0" encoding="UTF-8"?>
2
3 <!-- The MS SQL Server database JCA connection factory config
4 $Id: hsqldb-ds.xml,v 1.15 2004/09/15 14:37:40 jcubvansky Exp $ -->
5
6 <datasources>
7   <local-tx-datasource>
8     <jndi-name>CostosDS</jndi-name>
9     <connection-url>jdbc:jtds:sqlserver://localhost:2000;databaseName=CostOS</connection-url>
10    <driver-class>net.sourceforge.jtds.jdbc.Driver</driver-class>
11    <user-name>admin</user-name>
12    <password>admin</password>
13    <metadata>
14      <type-mapping>MS SQL SERVER2000</type-mapping>
15    </metadata>
16  </local-tx-datasource>
17 </datasources>
18
```

Annotations in the image:

- 21. Give the port that we specified in the instance**: Points to the port `2000` in the `connection-url`.
- 22. Type SQL server's IP.**: Points to `localhost` in the `connection-url`.
- 23. Give the username and password that we specified in the SQL Management Studio**: Points to the `admin` values in the `user-name` and `password` elements.

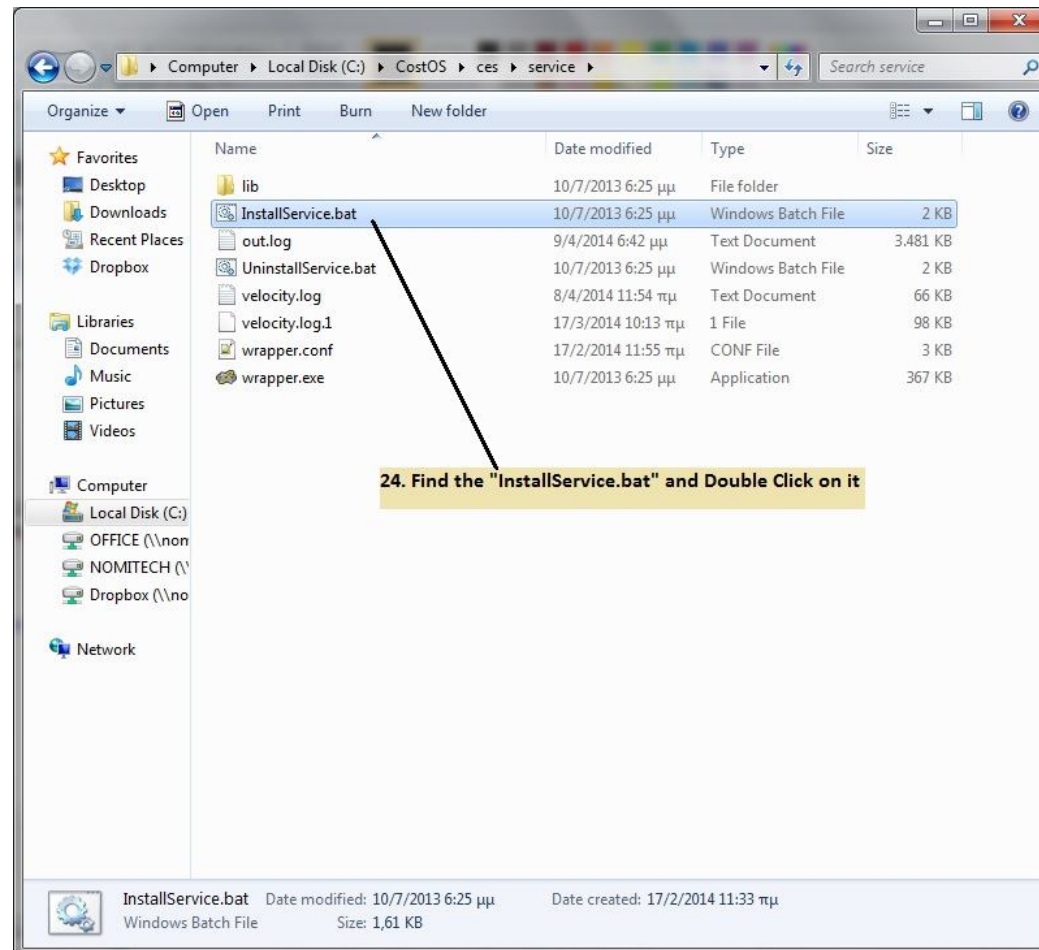
The status bar at the bottom indicates: `eXtensible Markup Language file`, `length: 594 lines: 18`, `Ln: 8 Col: 36 Sel: 0 | 0`, `UNIX`, `ANSI as UTF-8`, `INS`.

Step 16 – Follow the same process for **default-ds** file

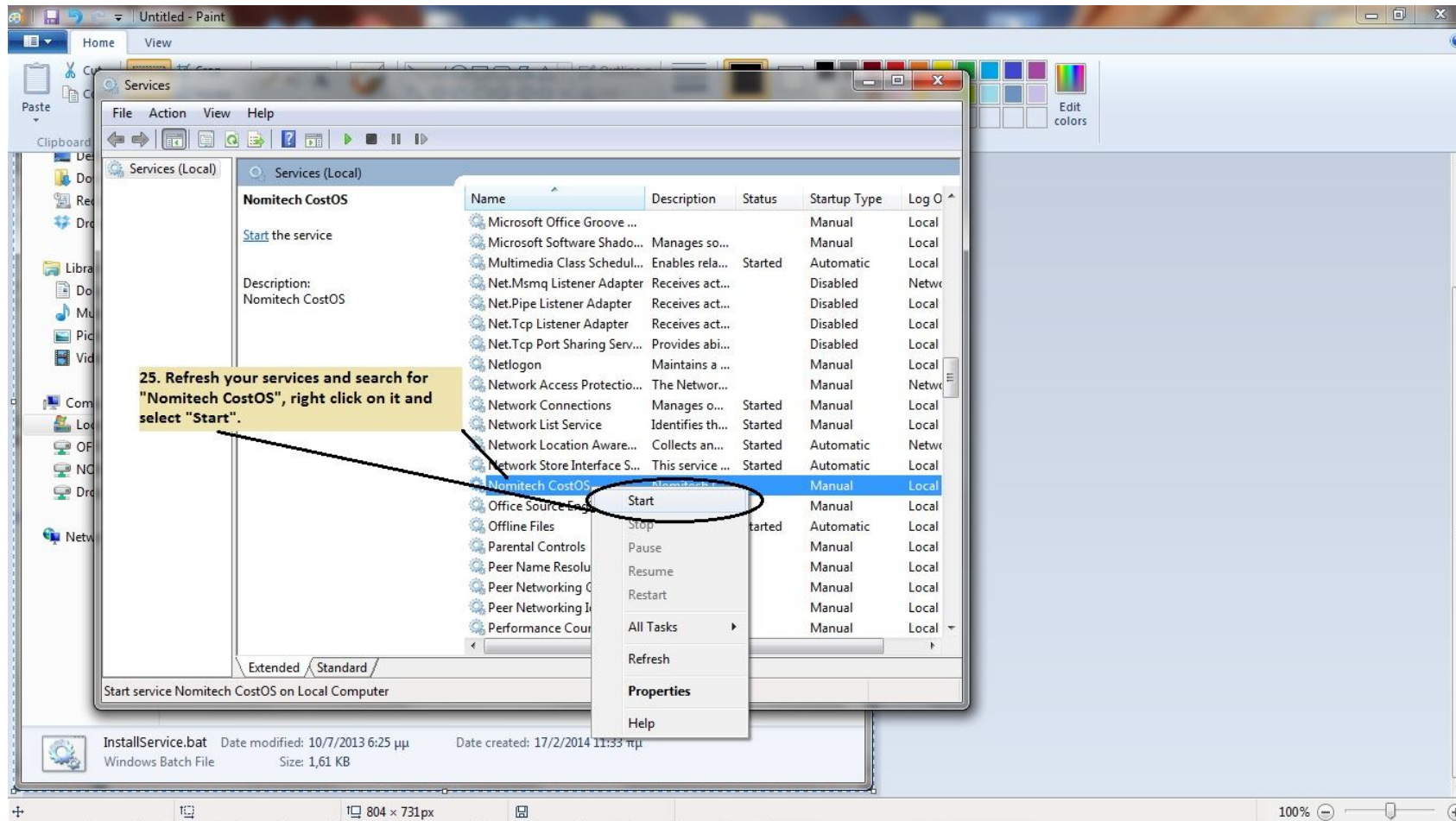
```
1 <?xml version="1.0" encoding="UTF-8"?>
2
3 <!-- The MS SQL Server database JCA connection factory config
4 $Id: hsqldb-ds.xml,v 1.15 2004/09/15 14:37:40 loubyvansky Exp $ -->
5
6
7 <datasources>
8   <local-tx-datasource>
9     <jndi-name>DefaultDS</jndi-name>
10    <connection-url>jdbc:jtds:sqlserver://localhost:12000;databaseName=CostOS</connection-url>
11    <driver-class>net.sourceforge.jtds.jdbc.Driver</driver-class>
12    <user-name>admin</user-name>
13    <password>admin</password>
14    <metadata>
15      <type-mapping>MS SQLSERVER2000</type-mapping>
16    </metadata>
17  </local-tx-datasource>
18 </datasources>
19
```

eXtensible Markup Language file length: 596 lines: 19 Ln: 1 Col: 1 Sel: 0 | 0 UNIX ANSI as UTF-8 INS

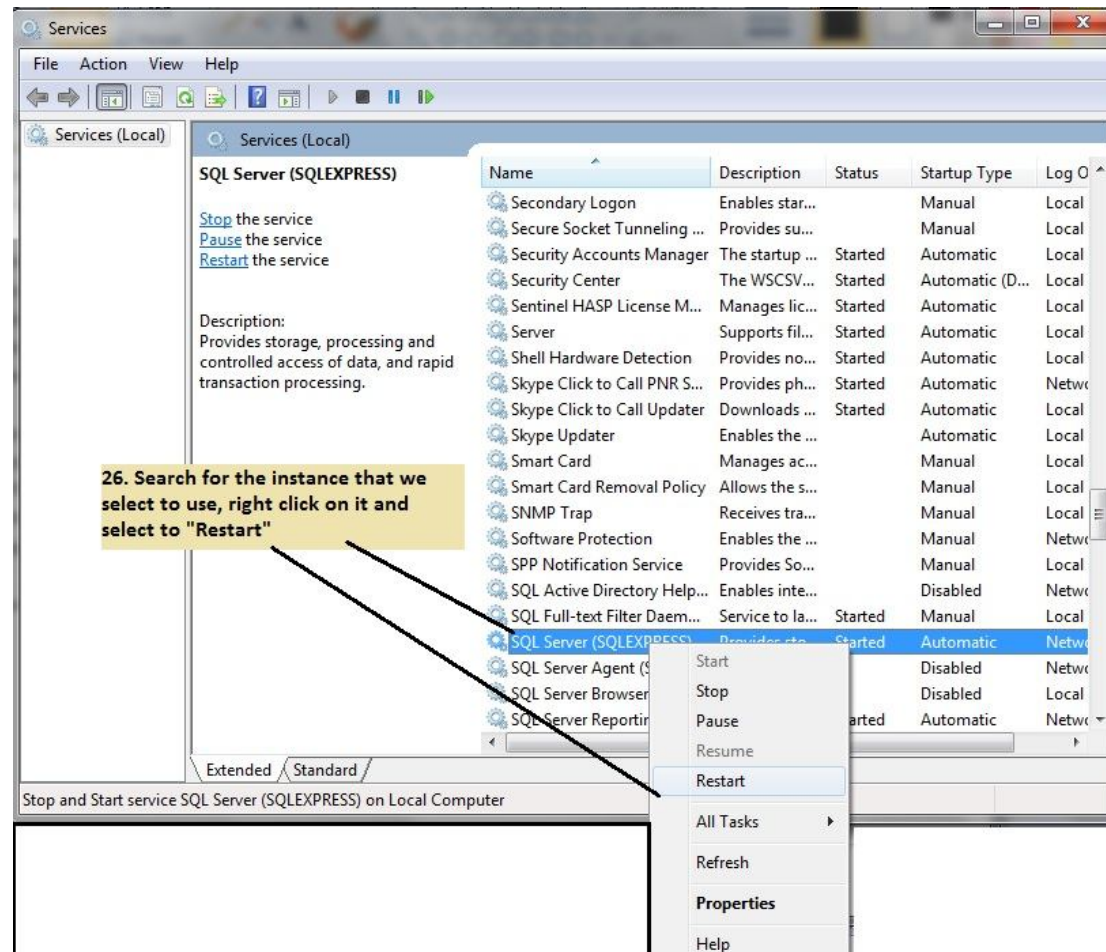
Step 17



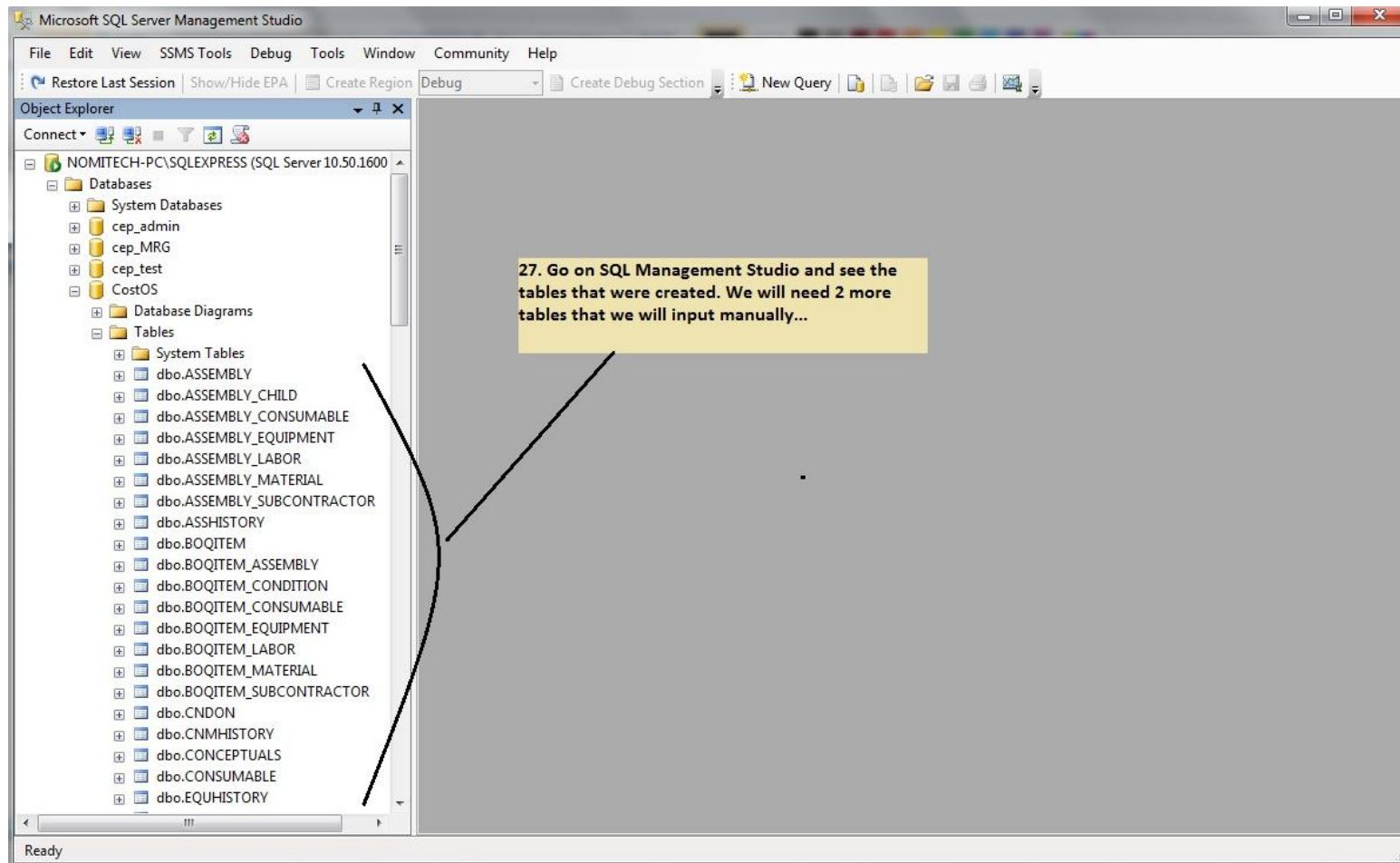
Step 18



Step 19



Step 20 – From SQL SERVER MACHINE



Step 21

- Wait for a couple of minutes and open the administration console going to:
<http://localhost:8080/ces/> please use username/password (admin/admin) to connect for the first time.

Step 22

The screenshot shows a Windows Internet Explorer browser window displaying the login page for CostOS Enterprise Server. The address bar shows the URL `http://localhost:8080/ces/login.jsp?locale=en`. The browser's menu bar includes File, Edit, View, Favorites, Tools, and Help. The address bar also shows a search box with the text "Find: JMX" and navigation buttons for Previous, Next, and Options. The page content features a blue header with the text "CostOS Enterprise Server" and "version 4" on the right. Below the header is a banner image of a construction site with the text "CostOS Estimating" and "User Management Console". The main content area has a "Main" tab and a "Login to CostOS" section. This section includes a welcome message, a small logo, and a paragraph of text: "Welcome to the User Management Console. Use a valid username and password to gain access to the administration console. This software is protected by Copyright Law and International treaties as described in the EULA - End User License Agreement. Java and all Java based Logos are registered trademarks of Oracle Corp. Copyright © 2005 - 2012 Nomitech - New Open Mind Technologies, Nomitech." To the right of this text is a login form with fields for "Username" and "Password", and a "Login" button. At the bottom of the page, there is a footer with the text "2.2 | XHTML Valid | CSS Valid" and "© 2005-2012 Nomitech - New Open Mind Technologies". The browser's status bar at the bottom shows "Login to CostOS | CostOS Enterprise Server" and "Local intranet | Protected Mode: Off".

CostOS Enterprise Server version 4 english ▾

CostOS Estimating

User Management Console

Main

Login to CostOS

Welcome to the User Management Console

Use a valid username and password to gain access to the administration console. This software is protected by Copyright Law and International treaties as described in the EULA - End User License Agreement. Java and all Java based Logos are registered trademarks of Oracle Corp. Copyright © 2005 - 2012 Nomitech - New Open Mind Technologies, Nomitech.

Username

Password

Login

2.2 | XHTML Valid | CSS Valid
© 2005-2012 Nomitech - New Open Mind Technologies

Local intranet | Protected Mode: Off

Step 23

- **SETTING USERS/ROLES**
- Click on User Mgmt in order to see the User Management console. To Create a New CostOS user you must add it from the follow screen:

Step 24

The screenshot displays a Windows Internet Explorer browser window with the URL `http://localhost:8080/ces/admin/user.jsp`. The browser's address bar and menu bar are visible. The main content area shows the 'User Management' interface for 'CostOS Enterprise Server'. A modal dialog box titled 'Add New CES User - Windows Internet Explorer' is open in the foreground. The dialog contains the following text: 'To add a new user fill in the following form, with data fields and then press the 'Add' button. To close this window press 'Cancel'.'

The dialog form is divided into two sections:

- General Information:**
 - Name*:** New User
 - Email*:** mail@mail.com
 - UserId*:** user
 - Password*:** [masked with dots]
 - Confirm Password*:** [masked with dots]
- Groups and Roles:**
 - Roles*:** A dropdown menu is open, showing three options: 'CESAdmin', 'CESProjectReader', and 'CESProjectWriter'. 'CESProjectReader' is currently selected.

At the bottom of the dialog, there is a note: 'Fields marked with the asterisk (*) are mandatory.' and two buttons: 'Cancel' and 'Add'.

The background interface includes a sidebar with 'Main', 'User Mgmt', and 'Logout' options. The top right corner of the page shows 'version 4' and a language dropdown set to 'english'. The Windows taskbar at the bottom shows the system tray with the time '8:38 PM' and the date '11/11/2012'.

Step 29

The screenshot shows the 'User Management Console' interface for 'CostOS Enterprise Server'. The browser window title is 'User Management | CostOS Enterprise Server - Windows Internet Explorer' and the address bar shows 'http://localhost:8080/ces/admin/user.jsp'. The page features a navigation menu on the left with 'Main', 'User Mgmt', and 'Logout'. The main content area includes a 'Role Filter' dropdown set to '-All Roles-' and a table of users. The table has columns for '#', 'Name', 'User Id', and 'Roles'. Two users are listed: 'CES Administrator' (User Id: admin, Roles: 47 Roles) and 'New User' (User Id: user, Roles: 47 Roles). The footer contains version information and copyright details.

CostOS Enterprise Server version 4 english

CostOS Estimating

User Management Console

Main
User Mgmt
Logout

User Management Role Filter:
-All Roles-

#	Name	User Id	Roles
1	CES Administrator	admin	47 Roles
2	New User	user	47 Roles

2.2 | XHTML Valid | CSS Valid | ???user.status???

© 2005-2012 Nomitech - New Open Mind Technologies

User Management | CostOS Enterprise Server Local intranet | Protected Mode: Off | 100%

Step 30

- Please create one account for every system user. If you specify the CESAdmin role, this user has access to the user management console, and he is a super user for all projects, otherwise he does not.

INSTALLING THE CLIENT APPS

- The client setup files are located in the C: folder of the workstation, you can choose to install between the 32/64 bit applications.
- When the client application starts for the first time it will ask for the server host name/port and a username/password to connect:

Step 41



The image shows a Windows-style dialog box titled "CostOS Database Login...". The dialog has a blue header bar with the text "Enter your database password". On the left side, there is a vertical blue bar with a blue sphere and a key icon at the bottom. The main area contains three input fields: "Host:" with the value "costos-server.com:8080", "Username:" with the value "user", and "Password:" with six black dots. Below these fields is a checkbox labeled "Automatically log me in every time the program starts." which is currently unchecked. At the bottom right, there are two buttons: "Cancel" and "Login".

CostOS Database Login...

Enter your database password

Host:

Username:

Password:

Automatically log me in every time the program starts.

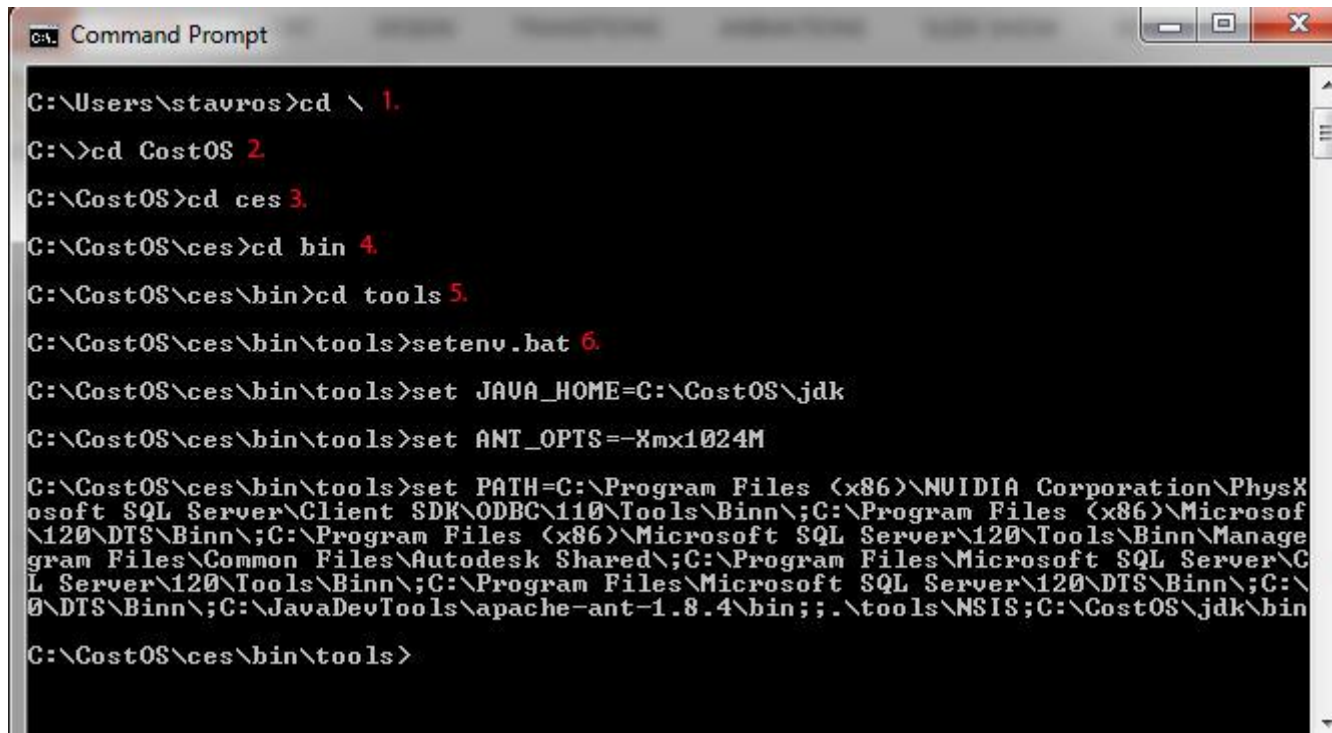
Cancel Login

Step 42

- By default CostOS is configured to listen for web service connections on port 8080 so always use the suffix ":8080".
- **Please also remember to always store your project files on Shared Network Drives so that they are always accessible from all users.**

Step 43 (Configuration 1) – Creating a project db

Open CMD and type commands like the following images.



```
Command Prompt
C:\Users\stavros>cd \ 1.
C:\>cd CostOS 2.
C:\CostOS>cd ces 3.
C:\CostOS\ces>cd bin 4.
C:\CostOS\ces\bin>cd tools 5.
C:\CostOS\ces\bin\tools>setenv.bat 6.
C:\CostOS\ces\bin\tools>set JAVA_HOME=C:\CostOS\jdk
C:\CostOS\ces\bin\tools>set ANT_OPTS=-Xmx1024M
C:\CostOS\ces\bin\tools>set PATH=C:\Program Files (x86)\NVIDIA Corporation\PhysX
osoft SQL Server\Client SDK\ODBC\110\Tools\Binn\;C:\Program Files (x86)\Microsof
\120\DTS\Binn\;C:\Program Files (x86)\Microsoft SQL Server\120\Tools\Binn\Manage
gram Files\Common Files\Autodesk Shared\;C:\Program Files\Microsoft SQL Server\C
L Server\120\Tools\Binn\;C:\Program Files\Microsoft SQL Server\120\DTS\Binn\;C:\
0\DTS\Binn\;C:\JavaDevTools\apache-ant-1.8.4\bin\;.\tools\MSIS;C:\CostOS\jdk\bin
C:\CostOS\ces\bin\tools>
```

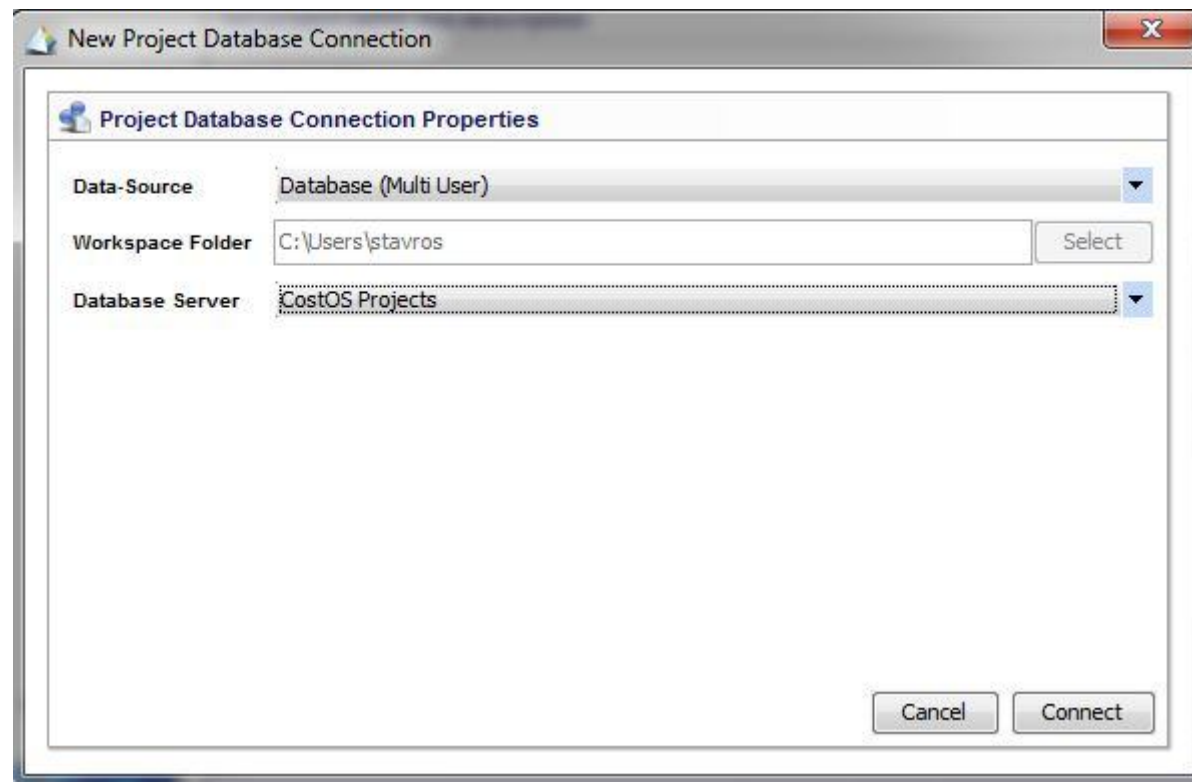

Step 44

```
Command Prompt
C:\CostOS\ces\bin\tools>ProjectDbmsUtil.bat 7.
Usage: ProjectDbmsUtil -iudl
-i [Install Dbms] <SQLServer!MySQL> <Unique-Dbms-Name> <Dbms-IP> <Dbms-Port> <PrivUsername>
-u [Update Dbms] <Unique-Dbms-Name> <Dbms-IP> <Dbms-Port> <PrivUsername>
-d [Delete Dbms] <Unique-Dbms-Name>
-l [List all Dbms]

C:\CostOS\ces\bin\tools>ProjectDbmsUtil.bat -i SQLServer "CostOS Projects" 192.168.2.5 1433 admin 8.
CostOS Server Hostname: localhost 9. (App server)
CostOS Server Username: admin 10. (username for Admin user)
CostOS Server Password: 11. (costos password for Admin user)
Successfully Logged-In to CostOS.
Type DBMS password of admin: 12. (password for sql login (admin))
Retype DBMS password of admin: 13. (retype the password for sql login)
DBMS CostOS Projects was successfully added to the installation
C:\CostOS\ces\bin\tools>
```

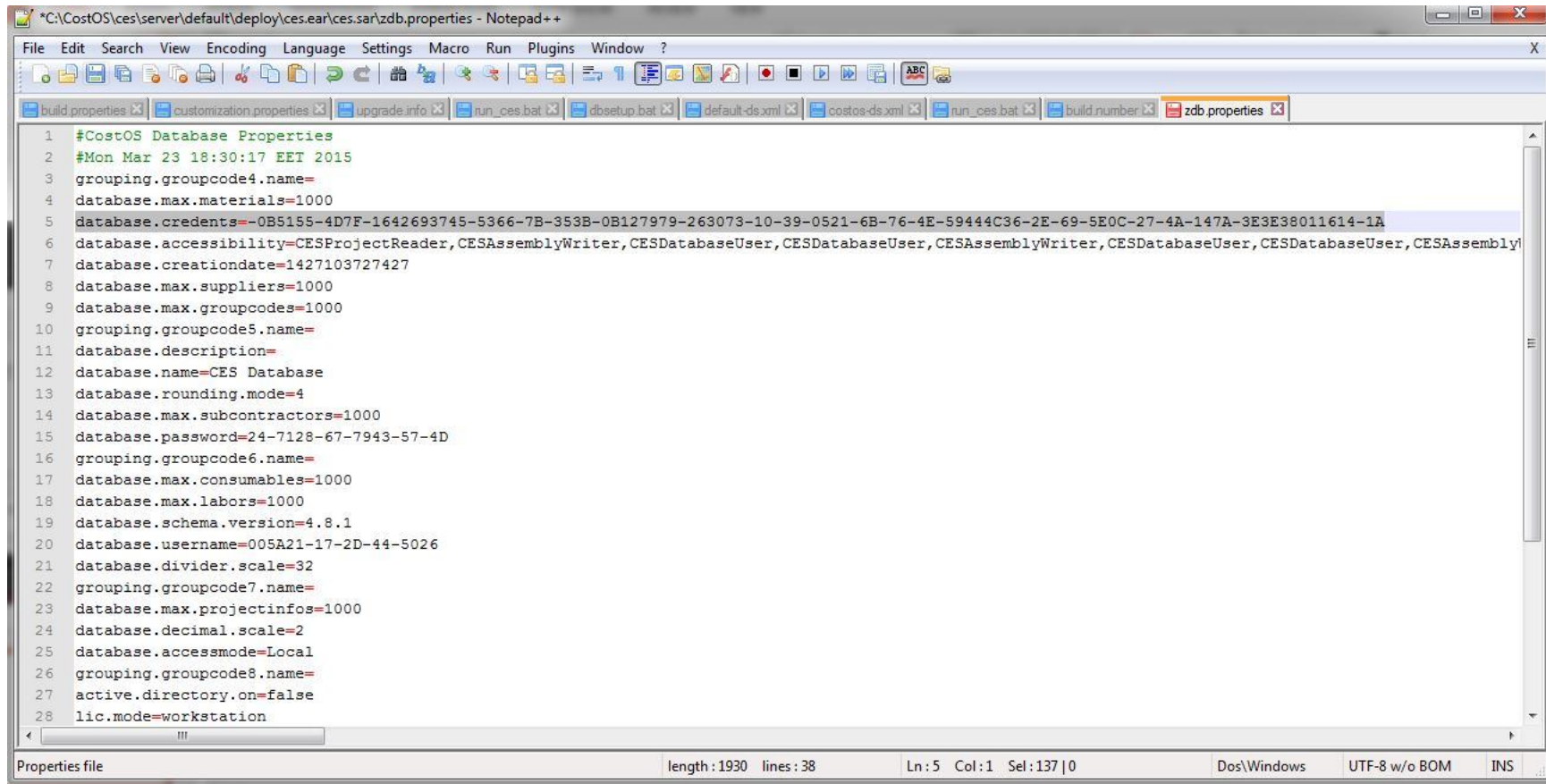
Step 45

Now each time that you create a new multi – user project, you don't have to add all that information with SQL creds, hostname and ports. You define the Data-source and the Database Server as “**CostOS Projects**”.



Step 47

Copy the database creds line and save the file.



```
*C:\CostOS\ces\server\default\deploy\ces.ear\ces.sar\zdb.properties - Notepad++
File Edit Search View Encoding Language Settings Macro Run Plugins Window ?
build.properties customization.properties upgrade.info run_ces.bat dbsetup.bat default-ds.xml costos-ds.xml run_ces.bat build.number zdb.properties
1 #CostOS Database Properties
2 #Mon Mar 23 18:30:17 EET 2015
3 grouping.groupcode4.name=
4 database.max.materials=1000
5 database.creds=--0B5155-4D7F-1642693745-5366-7B-353B-0B127979-263073-10-39-0521-6B-76-4E-59444C36-2E-69-5E0C-27-4A-147A-3E3E38011614-1A
6 database.accessibility=CESProjectReader,CESAssemblyWriter,CESDatabaseUser,CESDatabaseUser,CESAssemblyWriter,CESDatabaseUser,CESDatabaseUser,CESAssemblyWriter
7 database.creationdate=1427103727427
8 database.max.suppliers=1000
9 database.max.groupcodes=1000
10 grouping.groupcode5.name=
11 database.description=
12 database.name=CES Database
13 database.rounding.mode=4
14 database.max.subcontractors=1000
15 database.password=24-7128-67-7943-57-4D
16 grouping.groupcode6.name=
17 database.max.consumables=1000
18 database.max.labors=1000
19 database.schema.version=4.8.1
20 database.username=005A21-17-2D-44-5026
21 database.divider.scale=32
22 grouping.groupcode7.name=
23 database.max.projectinfos=1000
24 database.decimal.scale=2
25 database.accessmode=Local
26 grouping.groupcode8.name=
27 active.directory.on=false
28 lic.mode=workstation
Properties file length: 1930 lines: 38 Ln: 5 Col: 1 Sel: 137 | 0 Dos\Windows UTF-8 w/o BOM INS
```

Step 48

- Open **Nomitech** service again.