

# Web Facing – Lab Preparation

1. WebSphere Application Server – Express for iSeries Environment
2. Downloading and Restoring APILIB on the iSeries Server
3. WebFacing Server on iSeries
4. Map a network drive to iSeries Integrated File System
5. Create your user directory on iSeries Server
6. Setting up iSeries userid used for WebFaced Application Development
7. WebSphere Development Studio Client Installation

## *Web Facing – Lab Preparation*

### **1. WebSphere Application Server – Express for iSeries Environment**

Make sure you have completed WebSphere Express lab modules and your instances of HTTP and WAS are up and running.

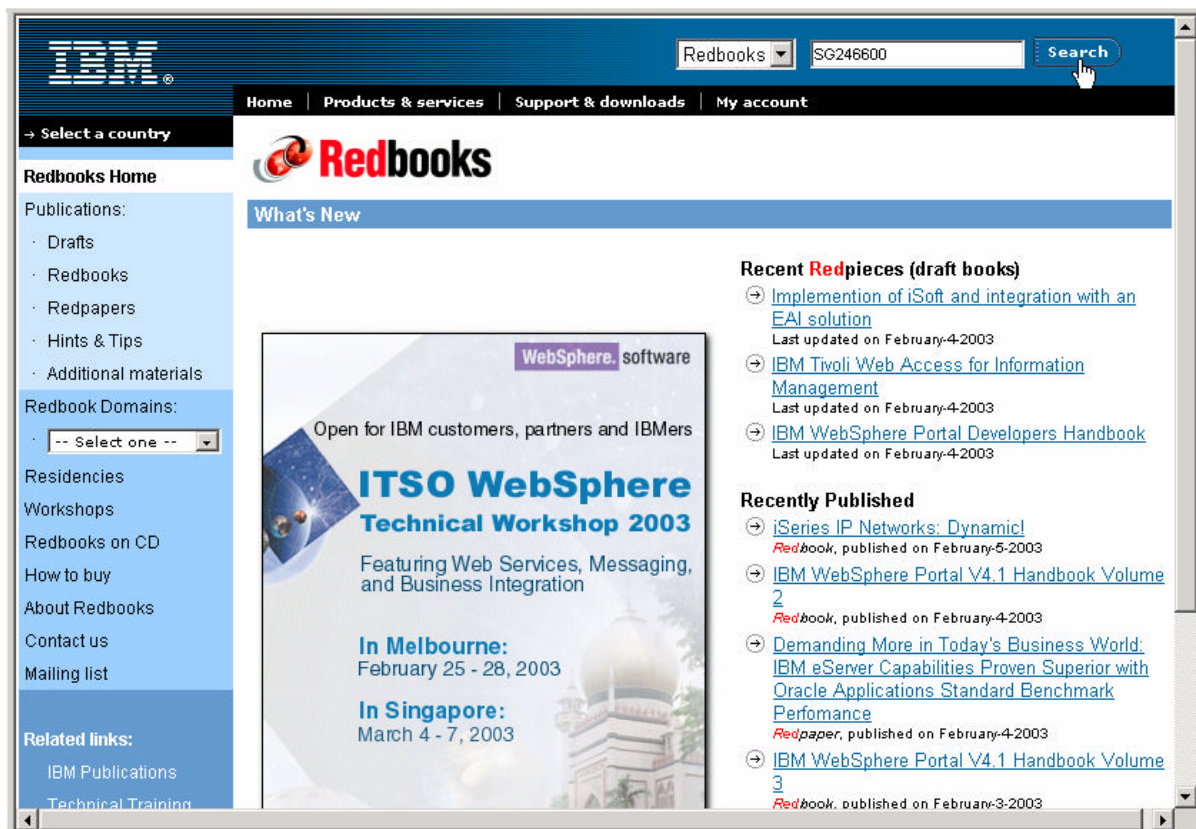
Ensure that you can successfully execute the snoop Servlet using external HTTP server.

## 2. Downloading and Restoring APILIB on the iSeries Server

Download APILIB from Redbooks website and upload it to iSeries System.

1. Go to <http://www.redbooks.ibm.com>

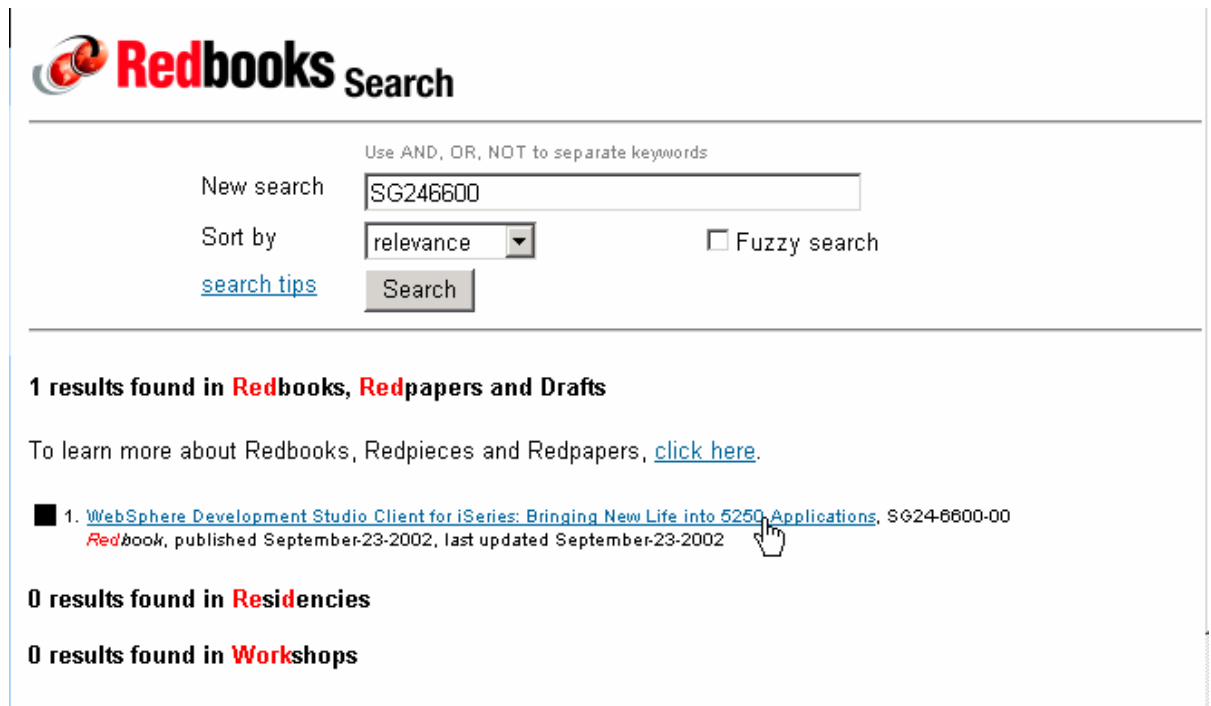
Enter SG246600 in the search box as shown:



Click on Search.

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\_\_ 2. Following search results are displayed:



The screenshot shows the Redbooks Search interface. At the top left is the Redbooks logo. Below it, a search bar contains the text 'SG246600'. To the right of the search bar is a dropdown menu set to 'relevance' and a checkbox for 'Fuzzy search'. Below the search bar is a 'Search' button. Above the search bar, the text 'Use AND, OR, NOT to separate keywords' is displayed. Below the search bar, there is a link for 'search tips'. The search results section shows '1 results found in Redbooks, Redpapers and Drafts'. Below this, there is a link to 'click here' for more information. The first result is a redbook titled 'WebSphere Development Studio Client for iSeries: Bringing New Life into 5250 Applications, SG24-6600-00', published and last updated on September-23-2002. Below the search results, there are two sections: '0 results found in Residencies' and '0 results found in Workshops'.

**Redbooks Search**

Use AND, OR, NOT to separate keywords

New search

Sort by   Fuzzy search

[search tips](#)

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**1 results found in Redbooks, Redpapers and Drafts**

To learn more about Redbooks, Redpieces and Redpapers, [click here](#).

1. [WebSphere Development Studio Client for iSeries: Bringing New Life into 5250 Applications](#), SG24-6600-00  
*Redbook*, published September-23-2002, last updated September-23-2002

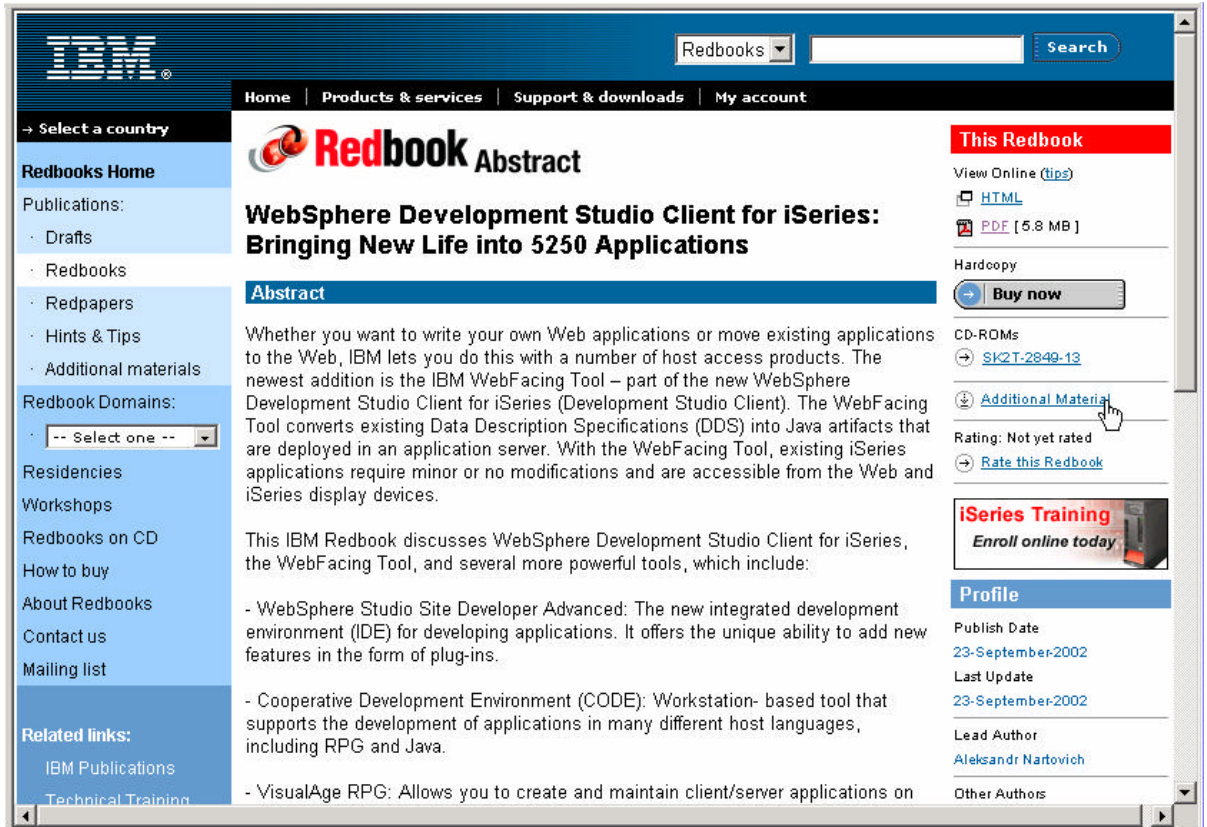
**0 results found in Residencies**

**0 results found in Workshops**

Click on Link to look at Redbook Abstract.

## Web Facing – Lab Preparation

### 3. Redbook Abstract



The screenshot shows the IBM Redbook website interface. The main content area displays the title "WebSphere Development Studio Client for iSeries: Bringing New Life into 5250 Applications" and an "Abstract" section. The abstract text describes the IBM WebFacing Tool and its capabilities. On the right side, there are options to "View Online" (HTML and PDF), "Buy now", and "Additional Materials". A mouse cursor is pointing at the "Additional Materials" link.

**Abstract**

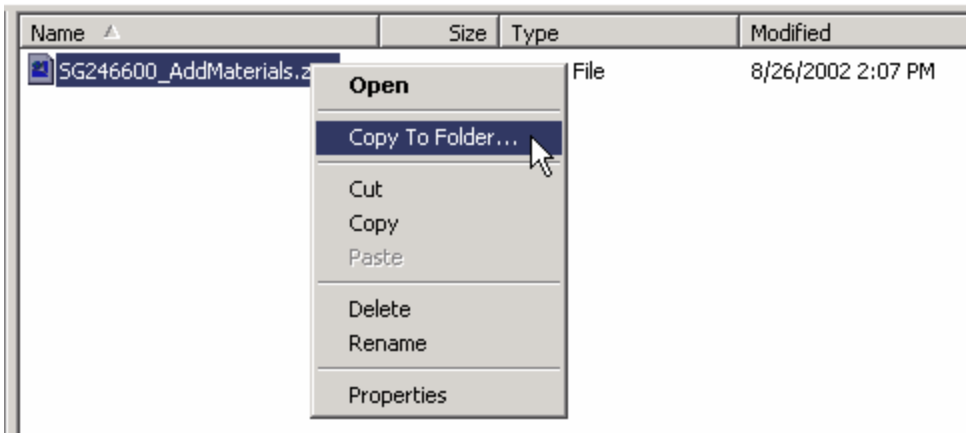
Whether you want to write your own Web applications or move existing applications to the Web, IBM lets you do this with a number of host access products. The newest addition is the IBM WebFacing Tool – part of the new WebSphere Development Studio Client for iSeries (Development Studio Client). The WebFacing Tool converts existing Data Description Specifications (DDS) into Java artifacts that are deployed in an application server. With the WebFacing Tool, existing iSeries applications require minor or no modifications and are accessible from the Web and iSeries display devices.

This IBM Redbook discusses WebSphere Development Studio Client for iSeries, the WebFacing Tool, and several more powerful tools, which include:

- WebSphere Studio Site Developer Advanced: The new integrated development environment (IDE) for developing applications. It offers the unique ability to add new features in the form of plug-ins.
- Cooperative Development Environment (CODE): Workstation- based tool that supports the development of applications in many different host languages, including RPG and Java.
- VisualAge RPG: Allows you to create and maintain client/server applications on

Click on Additional Materials link

### 4. Additional Materials



The screenshot shows a file explorer window with a table of files. The file "SG246600\_AddMaterials.zip" is selected, and a context menu is open over it. The "Copy To Folder..." option is highlighted by the mouse cursor.

| Name                      | Size | Type | Modified          |
|---------------------------|------|------|-------------------|
| SG246600_AddMaterials.zip |      | File | 8/26/2002 2:07 PM |

Context menu options:

- Open
- Copy To Folder...
- Cut
- Copy
- Paste
- Delete
- Rename
- Properties

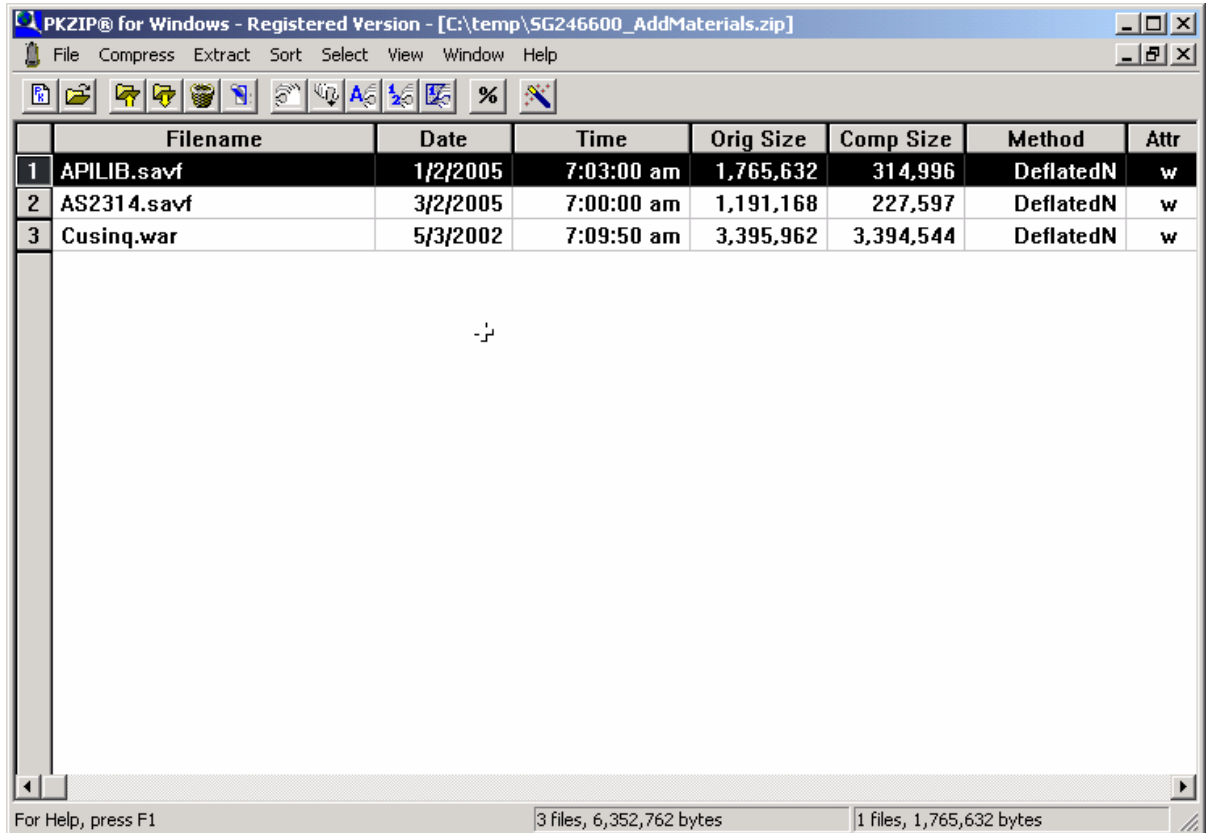
Right click on SG246600\_AddMaterials.zip file and select Copy To Folder.

Select C:\temp folder on your PC.

## Web Facing – Lab Preparation

- \_\_ 5. Extract files from ZIP file

Use Winzip or PKZIPto extract files.



We are interested in APILIB.savf. Extract APILIB save file in c:\temp directory.

- \_\_ 6. Create a save file in QGPL library

Sign on to iSeries system using your iSeries userid and password.

Type following command on command line and press enter.

**CRTSAVF QGPL/APILIB**

- \_\_ 7. FTP APILIB save file to iSeries System

Open command window / MS-DOS Prompt.

Type following command in command window:

**cd \temp**

**ftp iseries\_system\_name**

When prompted for userid, enter your iSeries userid

When prompted for password,, enter your iSeries password

## Web Facing – Lab Preparation

Commands in FTP session

```
bin
cd qgpl
put apilib.savf apilib (repl
quit
```

### \_\_ 8. Display contents of APILIB save file

Sign-on to iSeries System, if you already have 5250 session open use it.

Type following command on command line and press enter.

**DSPSAVF QGPL/APILIB**

Does it show contents similar to following?

```
Display Saved Objects - Save File
Library saved . . . . : APILIB           Release level . . . . : V4R4M0
ASP . . . . . : 1                     Data compressed . . . : No
Save file . . . . . : APILIB           Objects displayed . . . : 6
  Library . . . . . : QGPL             Objects saved . . . . : 22
Records . . . . . : 3344              Access paths . . . . . : 0
Save command . . . . : SAVLIB
Save active . . . . . : *NO
Save date/time . . . . : 05/01/02 15:03:44
```

Type options, press Enter.

5=Display saved data base file members

| Opt | Object    | Type | Attribute | Owner    | Size (K) | Data  |
|-----|-----------|------|-----------|----------|----------|-------|
|     | APILIB    | *LIB | PROD      | ITSCID01 | 88       | YES   |
|     | ORDENTR   | *PGM | RPGLE     | ITSCID01 | 316      | YES   |
|     | ORDENTRCL | *PGM | CLLE      | ITSCID01 | 72       | YES   |
|     | PRTORDERR | *PGM | RPGLE     | ITSCID01 | 176      | YES   |
|     | SLTCUSTR  | *PGM | RPGLE     | ITSCID01 | 188      | YES   |
|     | SLTPARTR  | *PGM | RPGLE     | ITSCID01 | 188      | YES + |

F3=Exit F12=Cancel

If not, you will have to do the FTP upload again.

### \_\_ 9. Restore APILIB library

Type following command on command line and press enter.

**RSTLIB SAVLIB(APILIB) DEV(\*SAVF) SAVF(QGPL/APILIB)**

You will see following messages:

21 security or data format changes occurred. +

22 objects restored. 0 not restored to APILIB.

Make sure all 22 objects are restored on your iSeries System.

### 3. WebFacing Server on iSeries

Make sure WebFacing Server is started on the iSeries.



## WebFacing Server on iSeries



- Make sure WebFacing server is up and running

```
Work with Active Jobs                                ISERIESA
CPU %:      3.1      Elapsed time:  00:00:00      Active jobs:  388
02/21/03  14:01:16

Type options, press Enter.
  2=Change  3=Hold  4=End  5=Work with  6=Release  7=Display message
  8=Work with spooled files  13=Disconnect ...

Opt  Subsystem/Job  User      Type  CPU %  Function      Status
---  -
QPASVRS  QSYS           QSYS      BCH   .0     PGM-QPASVRS  TIMW
QPASVRS  QSYS           QSYS      BCH   .0     PGM-QPASVRS  TIMW
QPASVRS  QSYS           QSYS      BCH   .0     PGM-QPASVRS  TIMW
QPASVRS  QSYS           QSYS      BCH   .0     PGM-QPASVRS  TIMW
QPASVRS  QSYS           QSYS      BCH   .0     PGM-QPASVRS  TIMW
QPASVRS  QSYS           QSYS      BCH   .0     PGM-QPASVRS  TIMW
QFVTSVR  QUSER          QUSER     BCI   .0     PGM-QFVTSVR  DEQW
QFWFSVR  QUSER          QUSER     BCI   .0     PGM-QFWFSVR  TIMW
QRWTLSTN QUSER          QUSER     BCH   .0
QSNMPSA  QTCP           QTCP      BCH   .0     PGM-QNMSARTR DEQW

Parameters or command
====>
F3=Exit  F5=Refresh  F7=Find  F10=Restart statistics
F11=Display elapsed data  F12=Cancel  F23=More options  F24=More keys
```

Virtual Terminal Server

WebFacing Server



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If not, start WebFacing Server using following command:



## WebFacing Server on iSeries



- How to start WebFacing server ?
  - ✓ STRTCPSVR \*WEBFACING

```
Start TCP/IP Server (STRTCPSVR)

Type choices, press Enter.

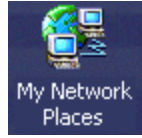
Server application . . . . . *webfacing    *ALL, *AUTOSTART...
+ for more values

Bottom
F3=Exit  F4=Prompt  F5=Refresh  F12=Cancel  F13=How to use this display
F24=More keys
```

#### 4. Map a network drive to iSeries Integrated File System

Mapped network drive to your iSeries system will allows you to access the IFS.

- Right mouse click on the **Network Neighbourhood** or (**MyNetwork places**)



icon ( ) on the desktop

- Select **Map Network drive** from the popup menu

In the **Folder Entryfield** of the Map Network Drive dialog

- Enter **2 backslashes** and your web servers **Netserver name**

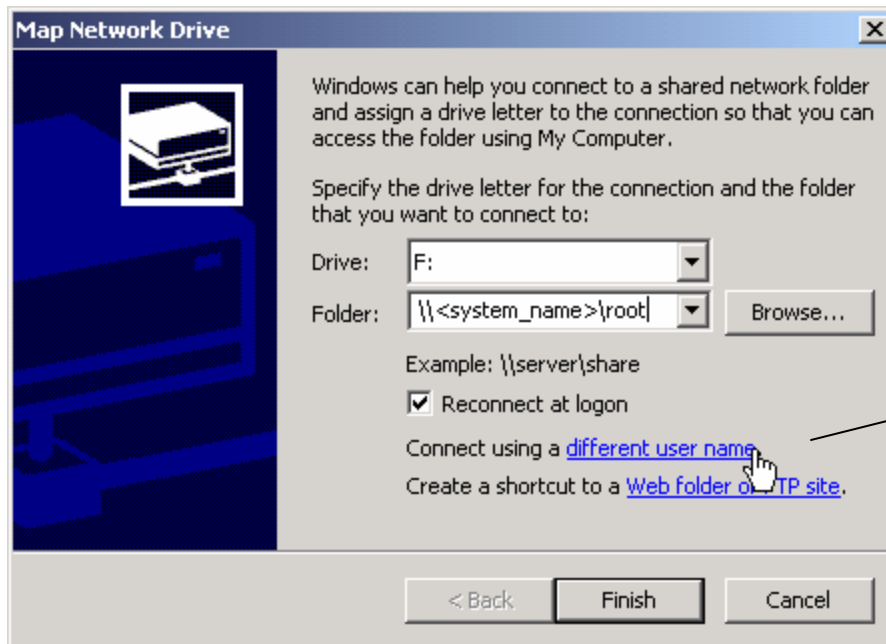
**The name of the folder is \\<system\_ name>\root**

Choose an available drive letter, F: tends to be available.

**Select the “Connect using a different user name” link.**

Sign on with your iSeries user ID and password from the lab Information sheet.

**Click on Finish.**



## **5. Create your user directory on iSeries Server**

Create your user directory on iSeries Server using the mapped network drive created in the previous step.

This directory will be used to export the WebFaced Application WAR file from WDS*c* to Integrated File System on iSeries Server.

## **6. Setting up iSeries userid used for WebFaced Application Development**

Create iSeries userid and set APILIB as the current library for this user. We will be using this userid in the lab exercises.

## **7. WebSphere Development Studio Client Installation**

Install WebSphere Development Studio Client (WDSClient) version 5.0 on your PC.

Also, Install the WDSClient service pack 1.