5761-XH2 V6R1 System i Access for Web Configuring WebSphere Application Server - Express V7.0 for IBM i

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This example is for users that are not familiar with the Web serving environment. It describes all the steps necessary to get System i™ Access for Web running in an IBM® WebSphere® Application Server – Express V7.0 for IBM i® environment. It also describes how to verify that the setup is working.

Similar steps can be used to get System i Access for Web running in an IBM WebSphere Application Server V7.0 for IBM i or IBM WebSphere Application Server Network Deployment V7.0 for IBM i environment. **Note:** WebSphere Application Server profiles that are federated to the Network Deployment environment are not supported by System i Access for Web.

Configuring your Web serving environment consists of these steps:

- Start the IBM® Web Administration for i interface. See step 1.

- Create an HTTP sever and a WebSphere Application Server – Express V7.0 for IBM i profile. See step 2.

- Configure System i Access for Web. See step 3.

- Start the Web environment. See step 4.

- Use a browser to access System i Access for Web. See step 5.

Steps to configure the Web serving environment:

1. Start the IBM Web Administration for i interface.

    a. Start a 5250 session to the system.

    b. Sign on with a user profile that has at least these special authorities: *ALLOBJ, *IOSYSCFG, *JOBCTL, and *SECADM.

    c. Run the following command to start the web administration interface job:

        STRTCPSVR SERVER(*HTTP) HTTPSVR(*ADMIN)

    d. Minimize the 5250 session.

2. Create an HTTP server and a WebSphere Application Server – Express V7.0 for IBM i profile.

    a. Open a browser to http://*<system_name>*:2001/HTTPAdmin

    b. Log in with a user profile that has at least these special authorities: *ALLOBJ, *IOSYSCFG, *JOBCTL, and *SECADM.

    c. Select the **Setup** tabbed page.

    d. Under Common Tasks and Wizards, select **Create Application Server**.

    e. The Create Application Server page opens. Select **Next**.

    f. Under WebSphere Application Server, select **V7.0 Express**, then select **Next**.

    g. The Specify Application Server name page opens. For **Application server name**, specify `iwa70exp`. This will be the name of the WebSphere Application Server profile. Select **Next**.

    h. The Select HTTP Server Type page opens. Select **Create a new HTTP server (powered by Apache)**, then select **Next**.

i. The Create a new HTTP server (powered by Apache) page opens.

    ▪ For **HTTP server name**, enter `IWA70EXP`.

    ▪ For **Port**, specify `2060`. This port number is an example. You should verify this port is available for use, or use a port you know is available.

    ▪ Select **Next**.

j. The Specify Internal Ports Used by the Application Server page opens.

    ▪ For **First port in range**, change the default value to `21060`. This port number is an example. You should verify this port is available for use, or use a port you know is available.

    ▪ Select **Next**.

k. The Select Sample Applications page opens. Select **Next** until the Summary page opens.

l. Select **Finish**.

m. The Web page is redisplayed with the **Manage > Application Servers** tabbed page active. Under **Server**, iwa70exp/iwa70exp – V7.0 Express is listed with a status of **Creating**. From this Web page you can manage the WebSphere Application Server profile.

    Use the refresh icon next to the **Creating** status to refresh the page if the page does not periodically refresh.

n. When the status is updated to **Stopped**, select the green icon next to the **Stopped** status to start the WebSphere Application Server profile. The status will be updated to **Starting**.

    Use the refresh icon next to the **Starting** status to refresh the page if the page does not periodically refresh. System i Access for Web requires that the WebSphere Application Server profile is running before it can be configured.

    Important: Wait for the status to be updated to **Running** before moving to the next step.

o. Minimize the browser window.

3. Configure System i Access for Web.

   a. Restore the 5250 session window.

   b. To see the WebSphere Application Server profile running, run the command:

   ```
   WRKACTJOB SBS(QWAS7)
   ```

   c. Verify that IWA70EXP is listed as a job running under the QWAS7 subsystem. System i Access for Web requires the WebSphere Application Server profile to be running before it can be configured.

   d. Verify the WebSphere Application Server profile is ready:

      i. Enter option `5` on the IWA70EXP job.

      ii. Enter option `10` to display the job log.

      iii. Press `F10` to display detailed messages.

      iv. Verify the message **WebSphere application server iwa70exp ready** is listed. This message indicates that the application server is fully started and is ready for Web serving.

      v. Press `F3` until you return to a command line.

   e. System i Access for Web provides QShell scripts to configure the product for WebSphere Application Server – Express V7.0 for IBM i.

      i. Start the QShell environment using the following command:

      ```
      QSH
      ```

      ii. Make the System i Access for Web directory containing the QShell script the current directory. Run this command:

      ```
      cd /QIBM/ProdData/Access/Web2/install
      ```

      iii. Configure System i Access for Web for your WebSphere Application Server profile by using the following command:

      ```
      cfgaccweb2 -appsvrtype *WAS70EXP -wasprf iwa70exp -appsvr
      iwa70exp -wasinsdir
      /QIBM/ProdData/WebSphere/AppServer/V7/Express
      ```

These parameters are:

-appsvrtype

Tells the command which WebSphere Application Server type to configure. Use `*WAS70EXP` with WebSphere Application Server – Express V7.0 for IBM i. Use `*WAS70BASE` with WebSphere Application Server V7.0 for IBM i. Use `*WAS70ND` with WebSphere Application Server Network Deployment V7.0 for IBM i.

-wasprf

Tells the command which profile of the WebSphere Application Server to configure.

-appsvr

Tells the command the name of the application server within the profile to configure.

-wasinsdir

Tells the command the location in the IBM i integrated file system where WebSphere Application Server – Express for IBM i is installed. The default value is `/QIBM/ProdData/WebSphere/AppServer/V7/Express`. The default value for WebSphere Application Server V7.0 for IBM i is `/QIBM/ProdData/WebSphere/AppServer/V7/Base`. The default value for WebSphere Application Server Network Deployment for IBM i is `/QIBM/ProdData/WebSphere/AppServer/V7/ND`.

-wasusrid

Tells the command the user ID to use for WebSphere Application Server configuration changes when WebSphere security has been enabled for the profile. In this example, security was not enabled. This parameter is not required for this example.

-waspwd

Tells the command the password for the user ID specified using the -wasusrid parameter. In this example, security was not enabled. This parameter is not required for this example.

> **Migration Note:** If you are already using System i Access for Web within another Web application server, see *System i Access > System i Access for Web > System i Access for Web in a Web application server environment > Configuring System i Access for Web > New Web application server considerations* in the IBM i5/OS Information Center (http://www.ibm.com/systems/i/infocenter/) under Connecting to System i. This topic discusses additional cfgaccweb2 command parameters that can be input to migrate user data from an existing configuration to this new configuration.

    iv. Several messages similar to the following will be displayed:

```
Configuring System i Access for Web.

Preparing to perform the configuration changes.

Calling WebSphere to perform configuration changes.

System i Access for Web command has completed.

The WebSphere application server must be stopped and then
started to enable the configuration changes.
```

    v. Press `F3` when the command completes to exit the QShell session.

  f. If the command were to fail or indicate an error, refer to the log files:

- /QIBM/UserData/Access/Web2/logs/cmds.log

  High level, cause and recovery information; translated.

- /QIBM/UserData/Access/Web2/logs/cmdstrace.log

  Detailed command flow for IBM Software Service; English only.

  g. After successfully configuring System i Access for Web, the WebSphere Application Server profile must be restarted to load the changes to its configuration. This will be done later.

  h. Signoff the 5250 session and close the window.

4. Start the Web environment.

  a. Restore the IBM Web Administration for i browser window.

b. The **Manage > Application Servers** tabbed page should be active. Under Server is listed iwa70exp/iwa70exp – V7.0 Express with a status of **Running**. Stop and restart the WebSphere Application Server profile.

   i. Select the red icon next to the **Running** status to stop the WebSphere Application Server profile. If you are prompted to also stop the IWA70EXP HTTP server, do not deselect it. It should also be stopped.

   ii. The status will be updated to **Stopping**. Select the refresh icon next to the **Stopping** status to refresh the page if the page does not periodically refresh.

   iii. When the status is updated to **Stopped**, select the green icon next to the **Stopped** status to start the WebSphere Application Server profile. If you are prompted to also start the IWA70EXP HTTP server, do not deselect it. It should also be started.

   iv. The status will be updated to **Starting**. Select the refresh icon next to the **Starting** status to refresh the page if it does not periodically refresh.

     Important: Wait for the status to be updated to **Running** before moving to the next step.

     System i Access for Web will load and start as the WebSphere Application Server profile starts.

c. Select the **HTTP Servers** tabbed page.

d. Under Server, select **IWA70EXP – Apache**. The current status of this Apache HTTP server should be **Running**.

If the current status is **Stopped**, select the green icon next to the status to start the HTTP server. The status is updated to **Running**.

e. Close the browser window.

5. Use a browser to access System i Access for Web.

   a. Open a browser to either of the following addresses to access System i Access for Web:

      ```
      http://<system_name>:2060/webaccess/iWAHome
      http://<system_name>:2060/webaccess/iWAMain
      ```

   b. Log in using an i5/OS user profile and password. The initial load of System i Access for Web might take a few seconds. The WebSphere Application Server profile is loading Java™ classes for the first time. Subsequent loads of System i Access for Web will be faster.

   c. The System i Access for Web Home or Main page displays.

   d. Close the browser window.

By following the preceding steps, you completed these tasks:

- Created a WebSphere Application Server profile named iwa70exp.

- Created an HTTP server named IWA70EXP.

- Configured System i Access for Web for the WebSphere Application Server profile.

- Stopped and restarted the WebSphere Application Server profile and HTTP server. System i Access for Web started when the WebSphere Application Server profile started.

- Verified that System i Access for Web can be accessed from a Web browser.