

System i Access for Web Configuring an Integrated Web Application Server Instance

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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 Integrated Web Application Server 7.1 instance. It also describes how to verify that the setup is working.

Before you can configure System i Access for Web for an Integrate Web Application Server instance, you must ensure that the required PTF is applied or superseded on your system. This PTF provides functionality so that System i Access for Web can be deployed in an Integrated Web Application Server instance. Use this command to verify that you have the correct PTF applied or superseded:

```
DSPPTF LICPGM(5761XH2) SELECT(SI29664)
```

You must also ensure that the required level of the HTTP PTF group or a higher level is installed on your system. This level of the HTTP PTF group provides functionality for creating Integrated Web Application Server instances in which System i Access for Web can be deployed. Use the following command to verify the required level of the HTTP PTF group or a higher level is installed:

For V5R4 i5/OS:

```
WRKPTFGRP PTFGRP(SF99114)
```

Make sure level 13 or higher is installed.

For V6R1 i5/OS:

```
WRKPTFGRP PTFGRP(SF99115)
```

Make sure level 1 or higher is installed.

Configuring your Web serving environment consists of these steps:

- Start the IBM® Web Administration for i5/OS interface. See step 1.
- Create an Integrated Web Application Server V7.1 instance. 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 i5/OS 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 Integrated Web Application Server V7.1 instance
 - 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. Select **Next**
 - f. Under i5/OS® integrated Web application server, select **V7.1** and select **Next**
 - g. The *Specify Application Server Name* page opens. For **Application server name**, specify IWA71IAS. This will be the name of the Integrated Web Application Server instance. Select **Next**.
 - h. 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**.
 - i. The *Create a new HTTP server (powered by Apache)* page opens.
 - For **HTTP server name**, use the default value of IWA71IAS
 - For **port**, change the default value to 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 User ID for this Server* page opens. Select **Next**.
 - k. The *Sample Applications* page opens. Select **Next** until the *Summary* page opens.
 - l. Select **Finish**
 - m. The Web page is re-displayed with the *Manage > Application Servers* tabbed page active. Under **Server**, IWA71IAS – V7.1 (int app svr) is listed with a status of **Creating**. From this Web page, you can manage the Integrated Web Application Server instance.

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

Important: Wait for the status to be updated to **Running** before moving to the next step.
 - n. Minimize the browser window

3. Configure System i Access for Web

- a. Restore the 5250 session window
- b. System i Access for Web provides a Qshell script to configure the product. To use the Qshell script, follow these steps:

- i. Start the Qshell environment by using the following CL command:

```
QSH
```

- ii. Make the System i Access for Web install directory is the current directory by running the following command:

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

- iii. Configure System i Access for Web for the Integrated Web Application Server instance by running the following command:

```
cfgaccweb2 -appsvrtype *INTAPPSVR -instance IWA71IAS
```

These are the parameters used:

-appsvrtype

Tells the command which Web application server to configure.

-instance

Tells the command the name of the Integrated Web Application Server instance to configure.

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 i 6.1 Information Center (<http://www.ibm.com/systems/i/infocenter/>) under *Connection to System i*. This topic discusses additional `cfgaccweb2` script parameters that can be used to migrate user data from an existing configuration to this new configuration.

For example, if you currently use System i Access for Web within a WebSphere® Application Server – Express V6.1 for i5/OS profile named IWA61EXP, the `cfgaccweb2` script can migrate your System i Access for Web WebSphere Application Server configuration to the Integrate Web Application Server instance by running the following command:

```
cfgaccweb2 -appsvrtype *INTAPPSVR -instance IWA71IAS  
           -srcsvrtype *WAS61EXP -srcsvrinst IWA61EXP  
           -shrusrdata *NO
```

- iv. Several Messages similar to the following will be displayed:

```
Configuring System i Access for Web.  
Preparing to perform the configuration changes.  
System i Access for Web command has completed.
```

- v. After the command completes, press F3 to exit the Qshell session

- c. 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.
4. Start the Web environment
 - a. Return to the browser window that is open to the IBM Web Administration for i5/OS server management page.
 - b. The *Manage > Application Servers* tabbed page should be active. Under **Server**, IWA71IAS – V7.1 (int app svr) is listed with a status of **Running**. Stop and restart the Integrated Web Application Server instance.
 - i. Select the red icon next to the **Running** status to stop the Integrated Web Application Server instance. The IWA71IAS HTTP server will also be stopped. Select the refresh icon next to the **Stopping** status to refresh the page if the page does not periodically refresh.
 - ii. When the status is updated to **Stopped**, select the green icon next to the **Stopped** status to start the Integrated Web Application Server instance. The IWA71IAS HTTP server will also be started.
 - iii. The status will be updated to **Starting**. Select the refresh icon next to the **Starting** status to refresh the page if the page 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 Integrated Web Application Server instance starts.
 - iv. 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 name and password. The initial load of System i Access for Web might take a few seconds. The Integrated Web Application Server instance 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

System i Access for Web – Configuring an Integrated Web Application Server Instance

By following the preceding steps, you completed these tasks:

- Created an Integrated Web Application Server instance named IWA71IAS.
- Configured System i Access for Web in the Integrated Web Application Server instance.
- Stopped and restarted the Integrated Web Application Server instance. System i Access for Web started when the Integrated Web Application Server instance started.
- Verified that System i Access for Web can be accessed from a Web browser.

In this example, only the Qshell `cfgaccweb2` script is used to configure System i Access for Web.

You can refer to the CL command online help to learn how to use the other Qshell script commands. Only the Qshell script commands support Integrated Web Application Server instances.

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