

# InfoSphere Information Server

## Changing the WebSphere Application Server HTTP port with Information Server 8.5, 8.7, and 9.1



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This presentation will discuss how to change the WebSphere® Application Server HTTP port on a non-clustered WebSphere installation when using Information Server version 8.5, version 8.7 and version 9.1.

## Objectives

- Modify Virtual Hosts port setting
- Modify application server port
- Verify port is open
- Update Version.xml
- Update registered-servers.xml

The objectives of this presentation are to discuss the various steps required to change the WebSphere ports for Information Server version 8.5, version 8.7 and version 9.1. This presentation will discuss how to modify the virtual host port settings, how to modify the application server port, how to verify the required port is open, and how to update the version.xml and registered-servers.xml files.

## Change Virtual Hosts port value (1 of 3)

- Start WebSphere Application Server administrative console
- Click Environment > Virtual hosts
  - Click default host

The screenshot shows the WebSphere Administrative Console interface. On the left is a navigation tree with 'Environment' and 'Virtual hosts' highlighted by red arrows. On the right is the 'Virtual Hosts' configuration page, which includes a table of existing hosts. The 'default\_host' entry in the table is circled in red.

| Select                   | Name         |
|--------------------------|--------------|
| <input type="checkbox"/> | admin_host   |
| <input type="checkbox"/> | default_host |

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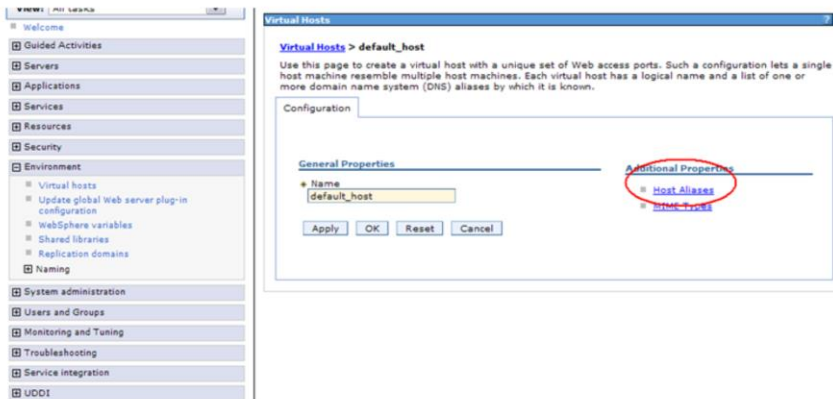
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The first step is to start the WebSphere administrative console. In the panel on the left side, click Environment and then Virtual hosts. Next, click default host.

## Change Virtual Hosts port value (2 of 3)

- Click Host Aliases under Additional Properties



Under additional properties click Host Aliases.

## Change Virtual Hosts port value (3 of 3)

- Change port numbers to new port number by clicking asterisk "\*"

The screenshot shows the 'Virtual Hosts' configuration page in the IBM WebSphere Administration Console. The left sidebar contains a navigation tree with categories like 'Welcome', 'Guided Activities', 'Servers', 'Applications', 'Services', 'Resources', 'Security', 'Environment', 'System administration', 'Users and Groups', 'Monitoring and Tuning', 'Troubleshooting', 'Service integration', and 'UDDI'. The main content area is titled 'Virtual Hosts > default\_host > Host Aliases'. It includes a 'Preferences' section with 'New' and 'Delete' buttons, and a table of host aliases. The table has columns for 'Select', 'Host Name', and 'Port'. The first row is selected, and its 'Port' value is 9080. A red oval highlights the asterisk next to the port number. Below the table is a 'Configuration' dialog box with a 'General Properties' section. The 'Port' field is set to 9080, and the 'OK' button is highlighted with a red oval.

| Select                              | Host Name | Port |
|-------------------------------------|-----------|------|
| <input checked="" type="checkbox"/> | *         | 9080 |
| <input type="checkbox"/>            | *         | 80   |
| <input type="checkbox"/>            | *         | 9443 |
| <input type="checkbox"/>            | *         | 5062 |
| <input type="checkbox"/>            | *         | 5063 |
| <input type="checkbox"/>            | *         | 443  |

- Save your changes

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Click the asterisk next to the port number you want to change. Change the port number to the new port number. Click OK and click Save at the top of the screen to save your changes.

## Change Application Server port (1 of 3)

- Click Servers > Server Types > WebSphere application servers
  - Select server to change port

The screenshot shows the IBM WebSphere administrative console. On the left is a navigation tree with the following items: Guided Activities, Servers, Server Types, WebSphere application servers, WebSphere MQ servers, and Web servers. Red arrows point to 'Servers', 'Server Types', and 'WebSphere application servers'. Below these are other categories: Applications, Services, Resources, Security, Environment, System administration, Users and Groups, Monitoring and Tuning, Troubleshooting, Service integration, and UDDI.

The main content area is titled 'Application servers' and contains the following text: 'Use this page to view a list of the application servers in your environment and the status of each of these servers. You can also use this page to change the status of a specific application server.' Below this is a 'Preferences' section and a table of resources.

| Name  | Node              | Host Name                    | Version     |
|---|-------------------|------------------------------|-------------|
| You can administer the following resources: |                   |                              |             |
| server1                                     | ipsaix00035Node01 | ipsaix00035.svg.usma.ibm.com | ND 7.0.0.17 |
| Total 1                                     |                   |                              |             |

The next step is to change the port number for the WebSphere Application Server. On the panel on the left side of the WebSphere administrative console, click Servers, Server Types, and then click WebSphere application servers. Click the server on which you want to change the port. The default Information Server server is server1.

## Change Application Server port (2 of 3)

- Click Ports

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Under the configuration tab, click Ports under the Communications section on the right.

## Change Application Server port (3 of 3)

| Select                   | Port Name                            | Host                         | Port | Transport Details                          |
|--------------------------|--------------------------------------|------------------------------|------|--|
| <input type="checkbox"/> | BOOTSTRAP_ADDRESS                    | ipsaix00035.svg.usma.ibm.com | 2823 | No associated transports                   |
| <input type="checkbox"/> | CSV2_SSL_MUTUALAUTH_LISTENER_ADDRESS | ipsaix00035.svg.usma.ibm.com | 9402 | No associated transports                   |
| <input type="checkbox"/> | CSV2_SSL_SERVERAUTH_LISTENER_ADDRESS | ipsaix00035.svg.usma.ibm.com | 9403 | No associated transports                   |
| <input type="checkbox"/> | DCS_UNICAST_ADDRESS                  | *                            | 9353 | <a href="#">View associated transports</a> |
| <input type="checkbox"/> | IPC_CONNECTOR_ADDRESS                | \$(LOCALHOST_NAME)           | 9633 | No associated transports                   |
| <input type="checkbox"/> | ORB_LISTENER_ADDRESS                 | ipsaix00035.svg.usma.ibm.com | 9105 | No associated transports                   |
| <input type="checkbox"/> | SAS_SSL_SERVERAUTH_LISTENER_ADDRESS  | ipsaix00035.svg.usma.ibm.com | 9401 | No associated transports                   |
| <input type="checkbox"/> | SIB_ENDPOINT_ADDRESS                 | *                            | 7276 | <a href="#">View associated transports</a> |
| <input type="checkbox"/> | SIB_ENDPOINT_SECURE_ADDRESS          | *                            | 7286 | <a href="#">View associated transports</a> |
| <input type="checkbox"/> | SIB_MQ_ENDPOINT_ADDRESS              | *                            | 3558 | <a href="#">View associated transports</a> |
| <input type="checkbox"/> | SIB_MQ_ENDPOINT_SECURE_ADDRESS       | *                            | 3578 | <a href="#">View associated transports</a> |
| <input type="checkbox"/> | SIP_DEFAULTHOST                      | *                            | 3062 | <a href="#">View transport</a>             |
| <input type="checkbox"/> | SIP_DEFAULTHOST_SECURE               | *                            | 3063 | <a href="#">View transport</a>             |
| <input type="checkbox"/> | SOAP_CONNECTOR_ADDRESS               | ipsaix00035.svg.usma.ibm.com | 8881 | No associated transports                   |
| <input type="checkbox"/> | WC_adminhost                         | *                            | 9060 | <a href="#">View transport</a>             |
| <input type="checkbox"/> | WC_adminhost_secure                  | *                            | 9043 | <a href="#">View transport</a>             |
| <input type="checkbox"/> | WC_defaulthost                       | *                            | 9080 | <a href="#">View transport</a>             |
| <input type="checkbox"/> | WC_defaulthost_secure                | *                            | 9443 | <a href="#">View transport</a>             |

Total 18

**General Properties**

Port Name: WC\_defaulthost

Host: \*

Port: 9080

Buttons: Apply, OK, Reset, Cancel

- Change value of port
  - HTTP server port or HTTP transport port
    - Change WC\_defaulthost
  - HTTPS port
    - Change WC\_defaulthost\_secure
- Save changes
- Stop and restart WebSphere Application Server

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To change the value of the HTTP server port or the HTTP transport port, change the WC\_defaulthost value. To change the value of the HTTPS port, change the WC\_defaulthost\_secure value. Click the port name you want to change and update the port number. Click OK and click Save at the top.

Once this is complete, stop and restart WebSphere Application Server.



## Verify port is open

- Verify port is available
  - Telnet to port: `telnet <host> <port>`
  - On Linux®: `nc -v -z <host> <port>`
  - Check with network administrator to verify port is open

The next step is to verify the new port you are using is not blocked by a firewall. A quick test can be done by trying to telnet to the host and port number. If you are on Linux, you may also use the nc command to see if the port is open. This slide displays examples of the different ways to verify the port is open. If the port is blocked, your network administrator will need to open the port.

## Update Version.xml (1 of 2)

- Update Version.xml on Engine and Services tiers
  - <InformationServer\_home>/Version.xml
- Edit each file
  - Open Version.xml in a text editor
  - Locate XML element with name=is.console.port  
<PersistedVariable encrypted="false" name="is.console.port" persistent="true" readonly="true" value="port" />
    - Change value attribute to new HTTPS or HTTP port
  - Locate XML element with name=isf.http.port  
<PersistedVariable encrypted="false" name="isf.http.port" persistent="true" readonly="true" value="port" />
    - Change value attribute to new HTTPS or HTTP port

The next step is to update the port value in the Version.xml file. The Version.xml file contains installation records that are used by the installation program. Keeping these files current avoids problems with future installations. The Version.xml file must be updated on both the engine tier and the services tier. If the engine and services tier are on the same server, there is only one Version.xml file to update.

The Version.xml file is located in the Information Server installation directory. Using a text editor, open the Version.xml file. Find the xml element with name=is.console.port and change the value to the new port. Next, find the xml element with name=isf.http.port and change the value to the new port. Save the changes.

## Update Version.xml (2 of 2)

- HTTP port change only
  - Locate XML element with name=**“was.default.host.port”**  
`<PersistedVariable encrypted="false" name="was.default.host.port"  
persistent="true" readonly="true" value="port" />`
  
- HTTPS port change only
  - Locate XML element with name=**“was.secure.default.host.port”**  
`<PersistedVariable encrypted="false" name="was.secure.default.host.port"  
persistent="true" readonly="true" value="port" />`

Next, if you are using HTTP and changed the WC\_defaulthost port in the WebSphere Application Server administrative console, find the xml element with name=was.default.host.port and specify the new port value. If you are using HTTPS and changed the WC\_defaulthost\_secure port in the WebSphere Application Server administrative console, find the xml element with name=was.secure.default.host.port and specify the new port value.

## Update registered-servers.xml file on Services tier (1 of 2)

| Operating System   | Installation directory  |
|--------------------|---|
| AIX® HP-UX Solaris | <i>install_dir</i> /ASBServer/conf/<br><br>Note: The typical installation location is /opt/IBM/InformationServer. |
| Linux              | <i>install_dir</i> /ASBServer/conf/<br><br>Note: The typical installation location is /opt/IBM/InformationServer. |
| Windows®           | <i>install_dir</i> \ASBServer\conf\<br><br>Note: The typical installation location is C:\IBM\InformationServer.   |

The next step is to modify the registered-servers.xml file on the services tier. This file is located in the locations displayed on this slide, where *install\_dir* is the location of the InfoSphere® Information Server installation directory.

## Update registered-servers.xml file on Services tier (2 of 2)

- Open registered-servers.xml file in text editor
- Locate XML element (May be multiple occurrences)  

```
<asb-server name="host" host-name="host" port="port" is-primary-server="true" />
```
- Modify all <asb-server> elements for servers whose port numbers are changing
- Update port value
- Save changes

Next, using a text editor, open the registered-servers.xml file. Find the xml element, asb-server. There may be multiple asb-server elements. Modify the asb-server elements for the servers whose port numbers are changing. After changing the value to the new port, save your changes.

## Update registered-servers.xml file on Engine tier (1 of 2)

| Operating System             | Installation directory  |
|------------------------------|---|
| <b>AIX HP-UX<br/>Solaris</b> | <i>installdir</i> \ASBNode\eclipse\plugins\com.ibm.isf.client |
| <b>Linux</b>                 | <i>installdir</i> \ASBNode\eclipse\plugins\com.ibm.isf.client |
| <b>Windows</b>               | <i>installdir</i> \ASBNode\eclipse\plugins\com.ibm.isf.client |

Next, modify the registered-servers.xml file on each computer that hosts the engine tier. This file is located in the locations displayed on this slide, where *installdir* is the location of your InfoSphere Information Server installation directory.

## Update registered-servers.xml file on Engine tier (2 of 2)

- Open registered-servers.xml in text editor
- Locate XML element:  

```
<asb-server name="host" host-name="host" port="port" is-primary-server="true" />
```
- Modify all <asb-server> elements for servers whose port numbers are changing
- Update port value
- Save changes

Using a text editor, open the registered-servers.xml file. Find all the asb-server xml elements for all of the servers whose port numbers are changing. Change the value to the new port and save your changes.

## Optional: Update registered-servers.xml file on each client tier

- Two ways to modify registered-servers.xml file on client
  - Modify manually
    - Follow slides 14 and 15
    - **On client-only computers**
      - **is-primary-server="true"** attribute does not appear in <asb-server> element
  - Run RegistrationCommand command

| Operating system | Command  |
|------------------|--|
| Windows          | <code>cd C:\IBM\InformationServer\ASBNode\bin<br/>RegistrationCommand.bat -remove -hostname <i>host</i> -port <i>port</i></code> |

Optionally, you can choose to modify the registered-servers.xml file on each computer that hosts the client tier. The list of servers in these files is used to populate the server lists in the login pages for some client applications. You can update these files if you want to have the updated port values shown on the next login attempt. Alternatively, you can enter the new value in the login page the next time that you log in. However, the old host name and port will continue to display in the lists in some client application login pages unless you modify the registered-servers.xml file on the computer. To update the file, change the file in the same way you modified the registered-servers.xml files on the engine tier. Alternatively, you can run the Registration Command as displayed on this slide.



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