

25A System i Access for Web: Setup and Configuration

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http://www.ibm.com/systems/i/software/access/web/



System i Access Sessions

Windows:

System i Access for Windows: What's New?

Web:

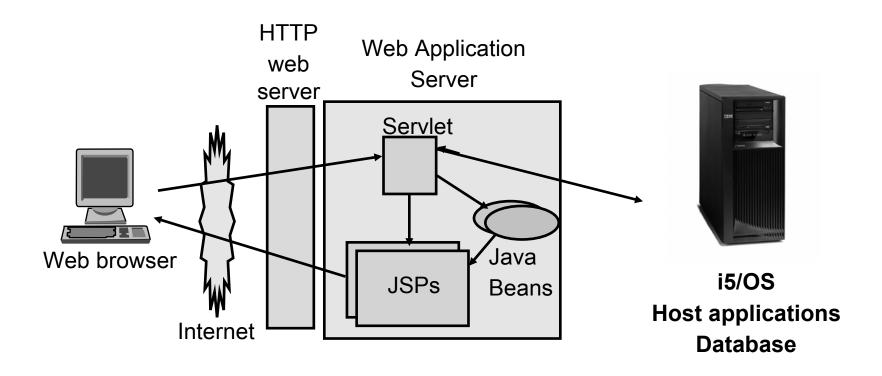
- Get to the Web Fast with System i Access for Web V6R1 (Overview)
- Run 5250 Through a Browser with System i Access for Web
- Database Access with System i Access for Web
- System i Access for Web: Setup and Configuration
- System i Access for Web: What an Administrator Needs to Know

Functional enhancements can be submitted via the FITS system. The url is: http://www.ibm.com/systems/i/software/access/

And click on link "Request for Design Change"



First you need a web-serving environment



Tier 1 Tier 2 Tier 3



Pieces of the web-serving environment

- HTTP Server (powered by Apache)
 - Front door for your system into your web serving environment
 - HTTP/HTTPS (SSL)
 - Listens for web requests on a specific TCP/IP port
 - Routes web requests between an end-user browser and a web application sever
- Web application server
 - WebSphere Application Server
 - Integrated Web application server
 - Provides a java virtual machine environment where web applications run
- Web application
 - System i Access for Web
 - Provides specific function that users access using a web browser
 - Deployed/installed within a web application server
- WebSphere Portal/Workplace
 - Web application deployed to WebSphere Application Server
 - Provides environment in which portlets are deployed and run.



Supported Web Application Servers

System i Access for Web servlet code can be used with any of the following web application servers:

System i Access for Web portlet code can be used with any of the following portal servers.

V6R1 System i Access for Web

- Integrated Web application server
- WebSphere® Application Server V6.1 and V6.0 Express for i5/OS
- WebSphere Application Server V6.1 and 6.0 Base and Network Deployment

V6R1 System i Access for Web

- WebSphere Portal for Multiplatforms V6.0
- WebSphere Portal for Multiplatforms V5.1.0.1

V5R4 System i Access for Web

- Integrated Web application server
- WebSphere® Application Server V6.1 and V6.0 Express for i5/OS
- WebSphere Application Server V6.1 and 6.0 Base and Network Deployment
- WebSphere Application Server V5.1 Express for iSeries
- WebSphere Application Server V5.0 Express
- WebSphere Application Server V5.1 and 5.0 Base and Network Deployment Editions
- ASF Tomcat

V5R4 System i Access for Web

- IBM Workplace Services Express V2.6 (V5R4 iSeries Access for Web)
- IBM Workplace Services Express V2.5
- WebSphere Portal for Multiplatforms V6.0
- WebSphere Portal for Multiplatforms V5.1.0.1
- WebSphere Portal Express for Multiplatforms V5.0.2
- WebSphere Portal Express Plus for Multiplatforms V5.0



Is your AS/400, iSeries, or System i ready?



Bxx, Cxx, Dxx, Exx, Fxx S10, S01, Pxx S20 / #2161, #2163 100, 150 170 / #2159,#2160,#2164,#2289,#2290,#2291,#2292,#2407, #2408,#2409 200, 20S, 250 270 / #2422,#2423, #2424,#2248,#2452,#2454

3xx, 4xx 500, 510, 50S 53S / #2154 530 / # 2150, # 2151 600 620 / #2175,#2179,#2180,#2181 720 / #2061 820 / #2425,#2426,#2457,#2456



\$30 / #2257 \$20 / #2170,#2165 170 / #2176,#2183,#2383,#2384,#2385,#2386 270 / #2250,#2431 53\$ / #2155 530 / #2150,#2151 600 / All 620 / #2175,#2179,#2180,#2181 720 / #2161 820 / #2425,#2426,#2456,#2457

WAS Express with few concurrent users

Over 1GB And 500 CPW SB1,SB2,SB3,S20(1),S30(1),S40,170 / #2388 270 / #2252,#2253,#2432,#2434 53S / #2156,#2157 530 / #2153,#2162 730,740,800 / #2464 810,825,870,890,i5 520,i5 550,i5 570,i5 595 / All

Complex web applications with many concurrent users

http://www-1.ibm.com/servers/eserver/iseries/software/websphere/lay_foundation.html



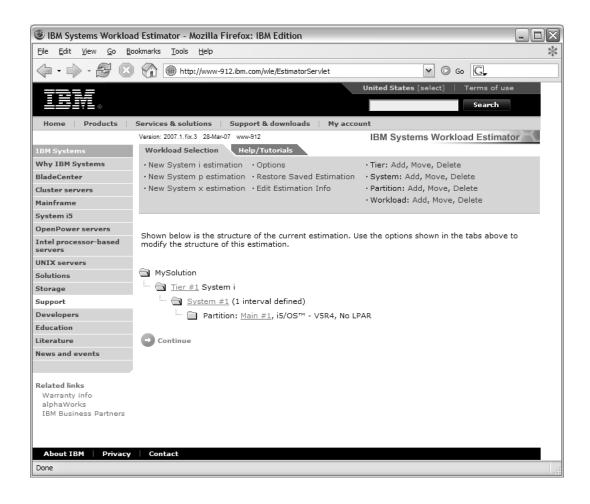
Performance...???

- Does running System i Access for Web affect performance?
 - Products like System i Access for Web don't put much load on i5/OS...
- How does the web application server affect performance?
 - If you have an older, under-powered System i, then performance may not be good...if you have a newer, bigger System i, then performance won't be an issue (unless you already are running your System i at maximum capacity).
 - Use the IBM Systems Workload Estimator to see what performance will be if WAS is added to your System i at: http://www-912.ibm.com/wle/EstimatorServlet
 - There is a Workload Estimator for WebFacing Workloads. System i Access for Web will be similar (depending on what functions of System i Access for Web are being used).
- Fine-tuning your web application server
 - If performance is not as good as expected, look in the WebSphere Information Center
 - http://publib.boulder.ibm.com/infocenter/wasinfo/v6r1/index.jsp?topic=/com.ibm.websphere.base.iseries.doc/info/iseries/ae/welc6topinstalling.html



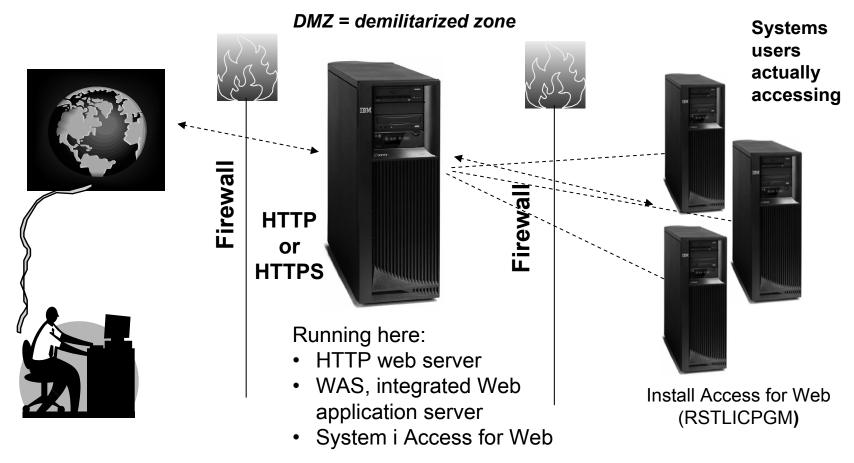
Performance Considerations...

Use the IBM Systems Workload Estimator at http://www-912.ibm.com/wle/EstimatorServlet





Setting up your web application server



Only need to set up 1 web application server



Port Requirements Comparison

System i Access for Windows (5722-XE1)* (5761-XE1)

- Port 449 for Port Mapper
- Port 8476 (9476) for Sign-on
- Port 8470 (9470) for Central
- Port 8472 (9472) for Data Queues
- Port 8471 (9471) for Database
- Port 8475 (9475) for Remote Commands
- Port 8473 (9493) for Print
- Port 2001 (2010) for Web Admin
- Port 446 (448) for DDM
- Port 23 (992) for Telnet
- Port 137, 138 for NetServer
- Port 389 (636) for LDAP
- Port 5555 (5566) for Mgmt Central
- Port 53 if using DNS Server

System i Access for Web (5722-XH2) (5761-XH2)

- Port 80 (or any other port) for HTTP Server
- Port 443 (or any other port) for HTTPS Server

^{*}See Information APAR II12227 for detailed information



Hardware/Software Requirements





Client Browser Requirements

- These browsers have been tested with V6R1 System i Access for Web:
 - Firefox 2.0 (Windows® and Linux®)
 - Internet Explorer 6.0 with Service Pack 1 (Windows)
 - Internet Explorer 7.0 Windows)
 - Mozilla 1.7 (Windows, Linux, and AIX®)
 - Opera 9.2 (Windows and Linux)

- These browsers have been tested with V5R4 System i Access for Web:
 - Firefox 1.0.2 (Windows, Linux)
 - Internet Explorer 6.0 with Service Pack1 (Windows)
 - Opera 7.54 (Windows, Linux)
 - Mozilla 1.7 (Windows, Linux, AIX)
 - Other browsers that support the current HTTP and HTML specifications should work, but have not been tested with System i Access for Web.

- Set browser to allow 'Cookies'
 - System i Access for Web requires that the web browser allow cookies. Set the cookie configuration option to allow cookies.



i5/OS Software Requirements

Product Number	Product Name	Option	\$
5722-SS1	V5R4 System i Access for Web: V5R3 or V5R4 i5/OS	Base	w/HW
5761-SS1	V6R1 System i Access for Web: V5R4 or V6R1 i5/OS		
57xx-SS1	i5/OS - Extended Base Directory Support	3	N/C
57xx-SS1	i5/OS - AFP Compatibility Fonts	8	N/C
57xx-SS1	i5/OS - Host Servers	12	N/C
57xx-SS1	i5/OS QShell Interpreter		N/C
57xx-SS1	If you plan to use Secure Sockets Layer (SSL) • i5/OS Digital Certificate Manager • Cryptographic Service Provider		N/C N/C
57xx-DG1	IBM HTTP Server for iSeries		N/C
57xx-JV1	Developer Kit for Java Developer Kit for Java Version 1.3	Base 5	N/C N/C
	Developer Kit for Java Version 1.3 Developer Kit for Java Version 1.4 Developer Kit for Java Version 5.0 J2SE 5.0 32 bit (Check WebSphere doc for required version)	6 7 8	N/C N/C N/C
57xx-JC1	Toolbox for Java	Base	N/C
57xx-TC1	TCP/IP Connectivity Utilities for iSeries		N/C



Note: xx = "22" for V5R4, "61" for V6R1



i5/OS Software Requirements (continued)

Product Number		Option	\$
	Product Name		
57xx-XW1	System i Access Family	Base	\$
57xx-XH2	System i Access for Web • Ships with 57xx-XW1 iSeries Access Family • V5R4 System i Access for Web runs on i5/OS V5R3 and V5R4 • V6R1 System i Access for Web runs on i5/OS V5R4 and V6R1	Base	part of XW1
5722-IP1	IBM Info Print Server (Optional enables best PDF output but is not required to view PDF output)	Base	\$

Note: xx = "22" for V5R4, "61" for V6R1



i5/OS Software Requirements (continued)

Product Number	Product Name	Option	\$
5733-W61 5733-W60 5722-E51 5733-W51 5722-IWE 5733-WS5	 One, or more, of the following web servers WebSphere Application Server V6.1 for i5/OS (all three editions) WebSphere Application Server V6.0 for OS/400 (all three editions) WebSphere Application Server V5.1 - Express for iSeries WebSphere Application Server V5.1 for iSeries (Base and ND) WebSphere Application Server V5.0 - Express for iSeries WebSphere Application Server V5.0 for iSeries (Base and ND) 	See documentation	
57xx-DG1 * * *	 integrated Web application server Apache Software Foundation Tomcat WebSphere Portal for iSeries (Express and Express Plus) V5.0.2.2 WebSphere Portal Enable for Multiplatforms V5.1.0.1 WebSphere Portal V6.0 IBM Workplace Services Express V2.5, V2.6 		

Note: xx = "22" for V5R4, "61" for V6R1

Refer to the documentation for the individual web serving environments additional requirements that may not be listed above.

WebSphere	http://www.ibm.com/systems/i/software/websphere/index.html/
Portal V5.0.2.2	http://publib.boulder.ibm.com/pvc/wp/502/smbi/en/InfoCenter/index.html
Portal V5.1.0.1	http://publib.boulder.ibm.com/infocenter/wp51help/index.jsp
Portal V6.0	http://publib.boulder.ibm.com/infocenter/wpdoc/v6r0/index.jsp
Workplace V2.5	http://publib.boulder.ibm.com/infocenter/wseic/v2r5/index.jsp
Workplace V2.6	http://publib.boulder.ibm.com/infocenter/wseic/v2r6/index.jsp
ASF Tomcat	http://www.ibm.com/systems/i/software/http/index.html/



System i Access Family - Packaging

V5R4 5722-XW1 iSeries Access Family
iSeries Access for Windows, 5722-XE1, V5R4
iSeries Access for Web, 5722-XH2, V5R4
iSeries Access for Linux, 5722-XL1, V1.10 (V5R4)
iSeries Access for Wireless, 5722-XP1, V5R3
V5R3 i5/OS customers not wanting to upgrade to V5R4 i5/OS but want the V5R4 iSeries Access Family clients you can order no-charge Feature No. 2648 of Product No. 5722-XW1
i i



System i Hardware Requirements

Models/Processor features/Memory

Refer to the web application server documentation to determine what server models, processor features, and the memory requirements are for your web serving environment

- WebSphere Application Server
 - http://www.ibm.com/systems/i/software/websphere/index.html/
- ASF Tomcat
 - http://www.ibm.com/systems/i/software/http/index.html/
- WebSphere Portal Express/Express Plus for iSeries V5.0.2.2
 - http://publib.boulder.ibm.com/pvc/wp/502/smbi/en/InfoCenter/index.html
- WebSphere Portal V5.1.0.1
 - http://publib.boulder.ibm.com/infocenter/wp51help/index.jsp
- WebSphere Portal V6.0
 - http://publib.boulder.ibm.com/infocenter/wpdoc/v6r0/index.jsp
- Workplace Services Express V2.5
 - http://publib.boulder.ibm.com/infocenter/wseic/v2r5/index.jsp
- Workplace Services Express V2.6
 - http://publib.boulder.ibm.com/infocenter/wseic/v2r6/index.jsp

Server disk space

Software product

- 470MB

V5R4 System i Access for Web V6R1 System i Access for Web

- 365MB

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System i Access for Web





3 Options for setting up the Access for Web environment

- 1. Integrated Web application server
 - Simplest to set up
 - Preconfigured HTTP web server
 - User created instances



2. Express Runtime Web Environments

- All components provided in a single package
- Greatly simplifies the complexity of the environment
- Most automated
- Running web environment when installation completes
- Desktop icon linking to the deployed web environment

3. Step by Step

- Greatest flexibility
- Choice of WebSphere Application Server version
- May already have components on your system



1. Integrated Web Application Server

- Simplest to set up
- Preconfigured HTTP web server
- User created instances





What is it, does System i Access for Web support it?

- What is the i5/OS integrated Web application server
 - A web application engine much like ASF Tomcat
 - Uses minimal system resources, similar to ASF Tomcat
 - Minimal effort by an Administrator to maintain
 - Administrative instance with preconfigured HTTP web server
 - User created instances
 - V5R4 is the last release i5/OS will contain ASF Tomcat

- How is it packaged
 - With i5/OS
 - 57xx-DG1 IBM HTTP Server for i5/OS
 - Available in PTF package/group
 - V6R1 GA Cumulative PTF package
 - V5R4 SF99114 latest available level
 - V5R3 SF99099 latest available level
- System i Access for Web support
 - V5R4 System i Access for Web supports only the Administrative instance
 - V6R1 System i Access for Web supports
 - Administrative instance
 - User created instances



To use System i Access for Web in this environment

Administrative instance and preconfigured HTTP web server

- 1. Stop the Web Administration for i5/OS
 - ENDTCPSVR SERVER(*HTTP) HTTPSVR(ADMIN)
- 2. Load/apply latest PTFs (review cover letters for any additional information)
 - V6R1 GA cumulative PTF package
 - V5R4 SF99114 group for product 5722-DG1
 - V5R3 SF99099 group for product 5722-DG1
- 3. Load/apply latest System i Access for Web PTF
 - V6R1 SI29664 or later
 - V5R4 SI29607 or later
- 4. Configure System i Access for Web
 - QSH
 - cd /QIBM/ProdData/Access/Web2/install
 - cfgaccweb2 –appsvrtype *INTAPPSVR
- 5. Start the Web Administration for i5/OS
 - STRTCPSVR SERVER(*HTTP) HTTPSVR(*ADMIN)
- 6. Start preconfigured HTTP web server
 - STRTCPSVR SERVER(*HTTP) HTTPSVR(IWADFT)
- 7. Open a browser to System i Access for Web using preconfigured HTTP:port
 - http://<system_name>:2020/webaccess/iWAMain
- 8. Done!



To use System i Access for Web in this environment

User created instance and HTTP web server (requires use of V6R1 System i Access for Web)

- 1. Load/apply latest PTFs (review cover letters for any additional information)
 - V6R1 GA cumulative PTF package
 - V5R4 SF99114 group for product 5722-DG1
- 2. Load/apply latest V6R1 System i Access for Web PTF
 - V6R1 SI29664 or later
- 3. Start the Web Administration for i5/OS
 - STRTCPSVR SERVER(*HTTP) HTTPSVR(*ADMIN)
- 4. Use the Web Administration for i5/OS wizard to create an instance of the integrated Web application server and an HTTP web server.
 - http://<system_name>:2001/HTTPAdmin
- 5. Configure System i Access for Web
 - QSF
 - cd /QIBM/ProdData/Access/Web2/install
 - cfgaccweb2 –appsvrtype *INTAPPSVR –instance <instance_name>
- 6. Start integrated Web application server and HTTP web server using the Web Administration for i5/OS interface.
 - http://<system name>:2001/HTTPAdmin
- 7. Open a browser to System i Access for Web using preconfigured HTTP:port
 - http://<system_name>:<port>/webaccess/iWAMain
- 8. Done!



Integrated Web application server

Questions regarding the integrated Web application server option?





2. Web Enable Feature – Express Runtime Environment



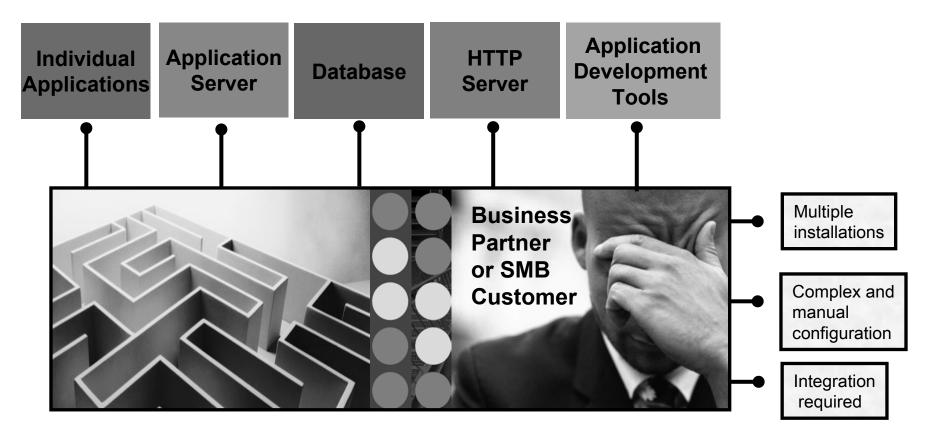
- All components provided in a single package
- Greatly simplifies the complexity of the environment
- Most automated
- Running web environment when installation completes
- Desktop icon linking to the deployed web environment



What is the problem?

The complexity of the web-serving environment

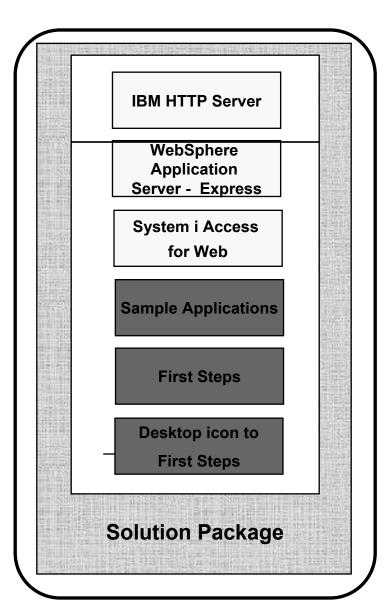
- Several parts/pieces to install
- Can be challenging to configure all the parts/pieces





What is the solution?

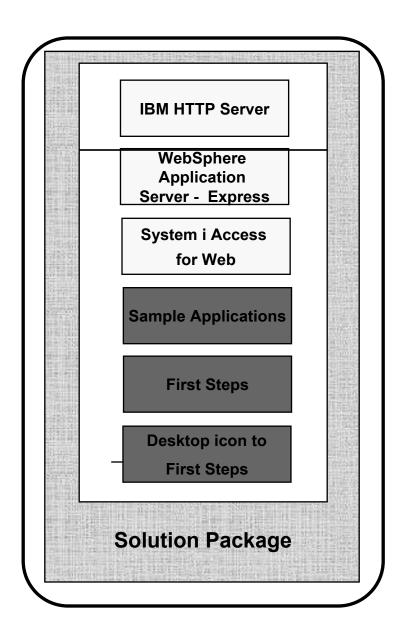
- Put all the parts/pieces into a single package
 - Middleware components
 - HTTP web server
 - WAS Express 6.x
 - System i Access for Web
 - PTFs are included
 - Sample applications modernizing an RPG application (flight400) using the following technologies:
 - HATS, WebFacing, Web Services
 - First Steps
 - Web page with links to System i Access for Web, Samples, web administration, Information
 - Getting Started Document
 - Deployment help text
 - Product licenses





What is the solution? (continued)

- Make the package easily deployable
 - Easy to use wizard run from Windows workstation
 - Middleware is uploaded, installed/configured
 - System i Access for Web is set up
 - Sample applications are set up
 - FirstSteps webpage is deployed
 - Web-serving environment is ready for immediate use
 - Desktop icon to FirstSteps web page





Target Audience

- i5/OS customers and partners
 - Anyone wanting/needing a simple way to setup web-serving on their i5/OS
- Users of the following:
 - System i Access for Web end user web browser access to i5/OS resources
 - WDHT / HATS / WebFacing applications
 - J2EE web applications (JSF, JSP, servlets, EJBs, etc)
 - SOA applications (web services, including RPG/COBOL integration)
 - Demo of an application modernized using SOA, HATs and WebFacing
- Partners
 - Modify a similar solution to include their applications
 - Obtain SAT and source from PartnerWorld
 - Rebuild solution to include their application



Packaging/Ordering

Express Runtime Web Environments 5722-WE2 5761-WE2

Can also be ordered separately

- No-charge feature of 5722-WE2 Web Enablement for i5/OS
 - Order feature 5905 for CDs
 - Order feature 5906 for a DVD

- V5R4 i5/OS
 - 5722-WE2 V1R1M0 = WAS 6.0.2.9 & V5R4 System i Access for Web
 - 5722-WE2 V1R2M0 = WAS 6.1.0.11 & V5R4 System i Access for Web
- V6R1 i5/OS
 - 5761-WE2 V1R1M0 = WAS 6.1.0.11 & V6R1 System i Access for Web
- Ships with all i5/OS orders
 - V5R4 ships CDs, DVD is orderable
 - V6R1 ships DVDs
 - · All media contained in a single shrink wrapped package
- Packaged along with WebSphere Application Server Express product CDs
 - Label on package identifies the two products and their purposes
 - Products identified on media labels
 - Look for DVD labeled: Express Runtime Web Environments V1R1, contains everything you need



Installation/Setup Process

- Read the ReadMe packaged with the product
 - Verify requirements for Windows workstation and i5/OS system
- From a Windows workstation, launch the deployment wizard
 - Provide credentials
 - Specify i5/OS system to deploy
 - Name the HTTP web server, WebSphere profile/application server, ports
 - Optionally a backend i5/OS for System i Access for Web to connect
- Deployment wizard runs
 - Pushing middleware from workstation/media to the i5/OS system
 - Installs/configures middleware
 - Install/configures System i Access for Web, sample applications, FirstSteps web page
 - Creates desktop icon on Windows workstation

Deployment wizard complete

- Click desktop icon named
 Web_Enablement_Environment_V5R4M0
 or
 Web_Enablement_Environment_V6R1M0
- FirstSteps webpage provides links to web environment, System i Access for Web, sample applications
- Administrator can then distribute web browser URL to users
- GO LICPGM will list
 - 5733-SO1 Base Express Runtime Web Environments
 - 5733-SO1 1 Web Enablement Environment



Windows workstation software/hardware requirements

- Windows operating systems
 - Windows XP Professional SP2
 - Windows 2000 Server SP4
 - Windows 2000 Advanced Server SP4
 - Windows 2000 Professional SP3
 - Windows Server 2003, Standard
 Edition SP1
 - Windows Server 2003, Enterprise Edition SP1
- Web browser
 - Windows Internet Explorer 6 or later
 - Firefox 1.5 or later

- Windows workstation hardware requirements:
 - Minimum 512MB of memory; 1GB recommended
 - At a minimum, an Intel Pentium III class processor with a minimum clock speed of 600MHz. A Pentium IV class processor with a minimum clock speed of 1.2GHz is recommended
 - A local area network (LAN) connection
 - At least 1.5GB of free disk space



i5/OS Software/Hardware Requirements

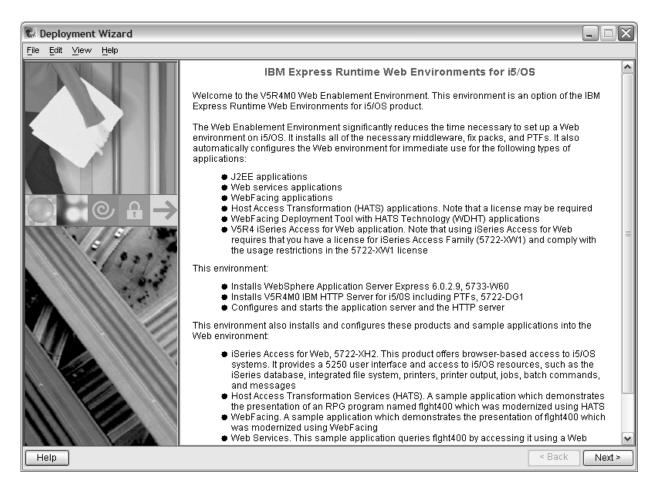
- i5/OS V5R4 (5722-SS1)
 - or V6R1 (5761-SS1)
 - option 3 Extended Base Directory Support
 - option 8 AFP(TM) Compatibility Fonts
 - option 12 Host Servers
 - option 30 QShell
- Software products
 - 57xx-JV1 Java Developer Kit see Readme for specific options
 - 57xx-JC1 Toolbox for Java
 - 57xx-TC1 TCP/IP Connectivity Utilities
 - 57xx-XW1 System i Access Family
 - 57xx-QU1 Query if you want to run reports using the HATS or WebFacing sample applications

- Recommended PTFs:
 - V5R4
 - i5/OS Cumulative PTF Group SF99540 Level 6066 or later
 - Java Group PTF SF99291 Level 2 or later
 - DB2 Universal Database for iSeries Group PTF SF99504 Level 2 or later
 - V6R1
 - i5/OS Cumulative PTF Group SF99610
 Level 8064 or later
- i5/OS hardware requirements:
 - It is recommended that you use the <u>IBM</u>
 <u>Systems Workload Estimator</u> to help
 estimate your hardware needs.



Demonstration

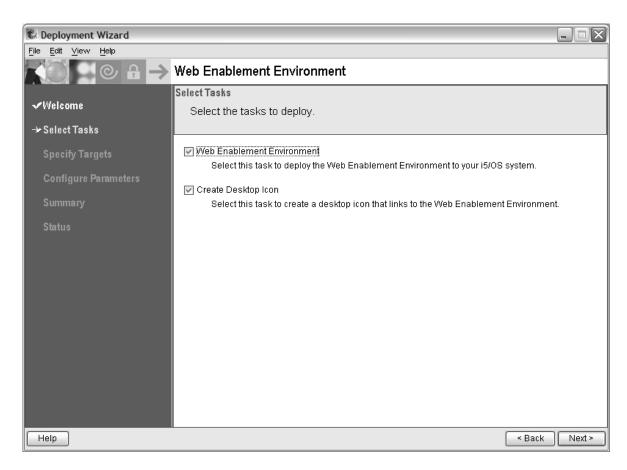
After accepting the license agreements, this is the first page of the deployment wizard





Demonstration (continued)

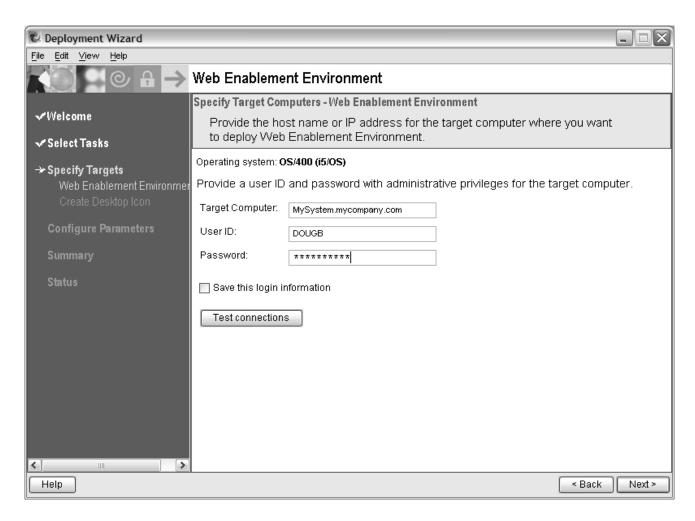
Deploy the web environment and create the desktop icon to the FirstSteps webpage





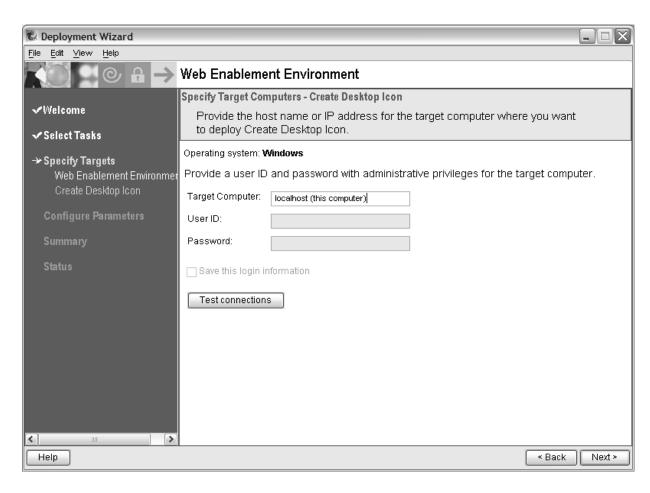
Demonstration (continued)

Name of i5/OS system to deploy the environment to



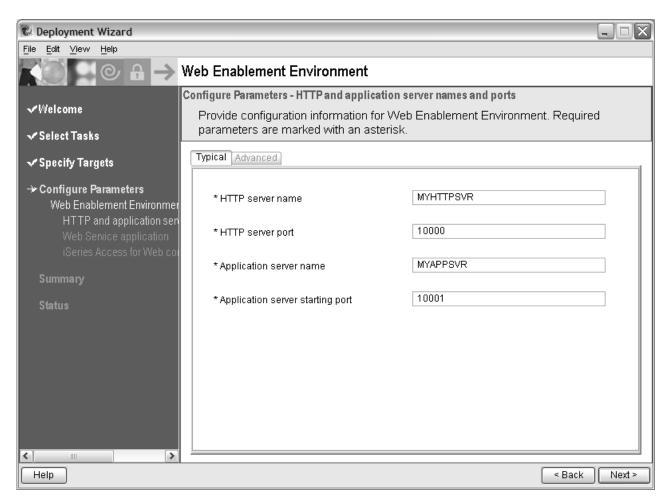


The deployment wizard displays this page for the desktop icon, click Next



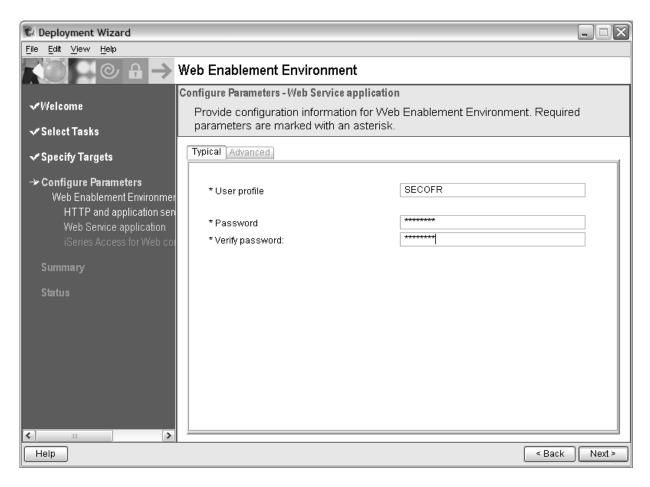


Name the HTTP web server and it's port Name the WebSphere profile/app server and it's port range



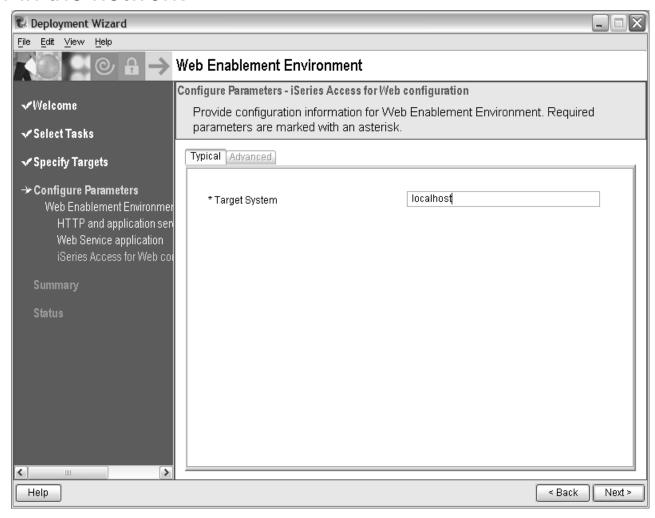


Deployment of the sample applications requires a security officer level user ID/password



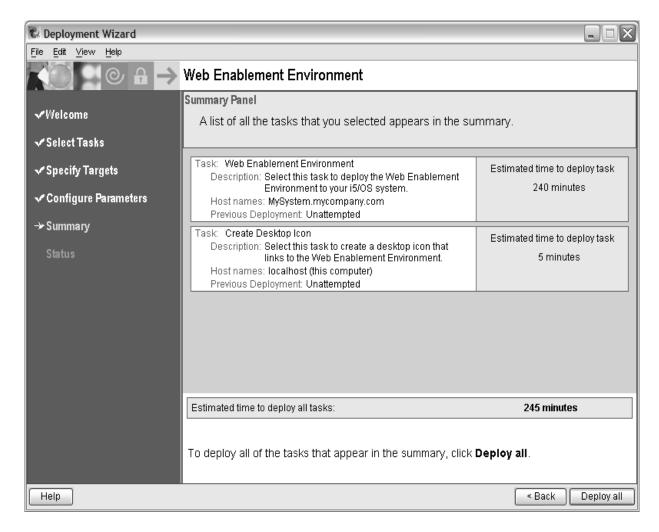


System i Access for Web can connect to the i5/OS system deploying to or another in the network



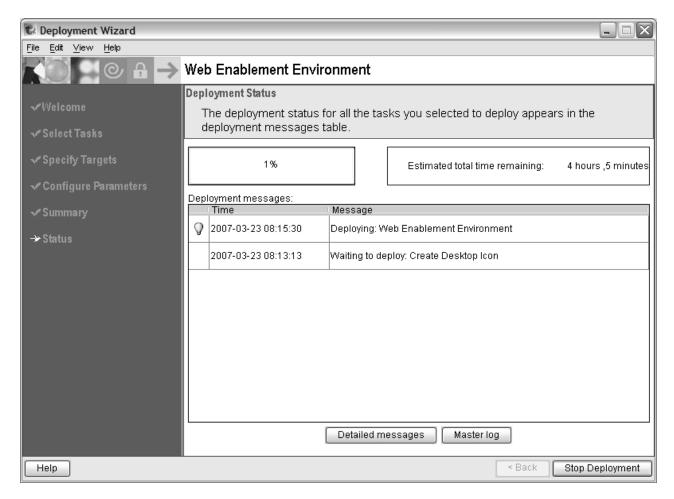


Summary page, click Deploy all



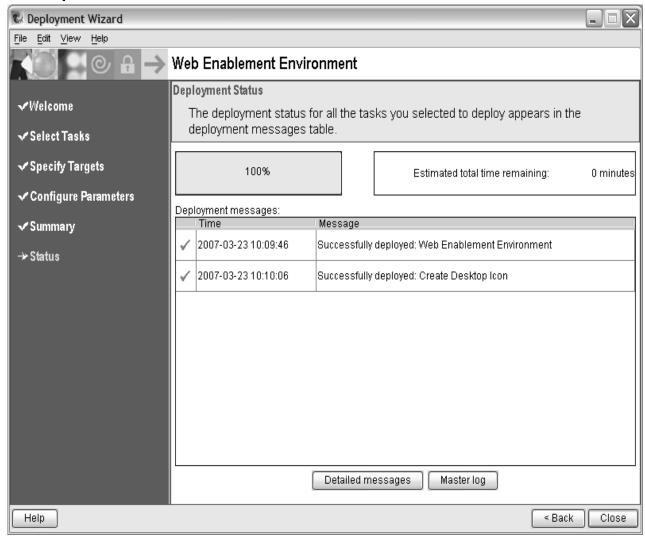


Progress of the deployment





Successful completion

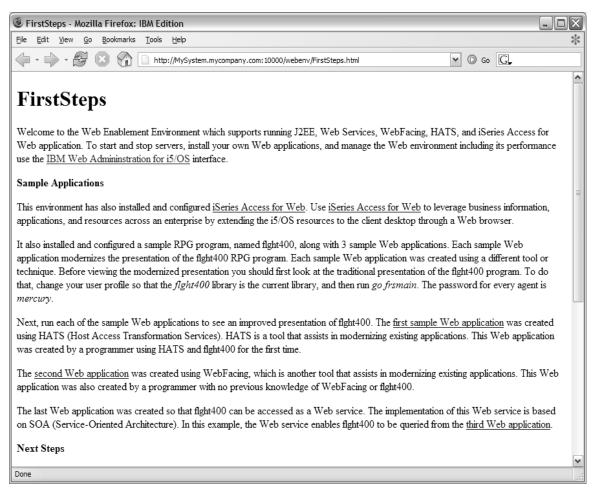




Click the desktop icon named:

"Web_Enablement_ Environment_V5R4M0"

"Web_Enablement_ Environment_V6R1M0"

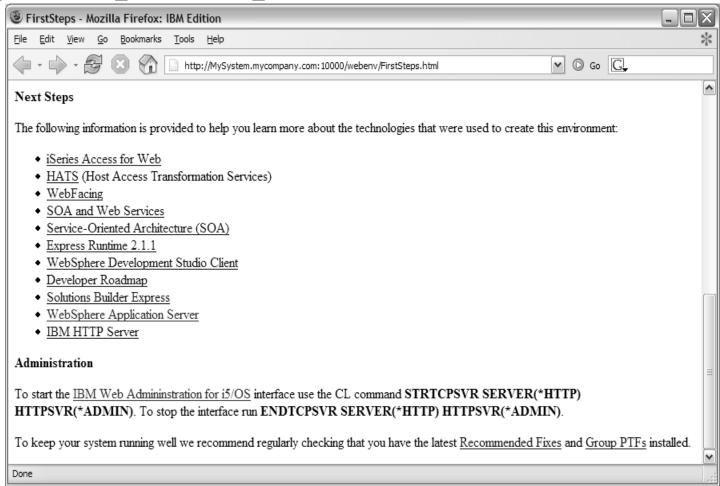




Click the desktop icon named:

"Web_Enablement_ Environment_V5R4M0"

"Web_Enablement_ Environment_V6R1M0"





Questions regarding the Express Runtime Web Environments option?





3. Step by Step



- Greatest flexibility
- Choice of WebSphere Application Server version
- May already have components on your system



Formula for successful setup and configuration

You need to do the following in this order:

- 1. Decide what web application server environment to run
- 2. Install System i Access for Web on your i5/OS system
- 3. Verify, load, apply any additional PTFs
 - Cumulative PTF package
 - WebSphere, HTTP web server for i5/OS, integrated Web application server
 - System i Access for Web
- 4. Setup web-serving environment
- 5. Configure System i Access for Web
- 6. Verify the installation and configuration

Information resources:

- These steps are detailed in System i Access for Web InfoCenter information
- 450047 LAB: System i Access for Web Installation and Configuration
- Examples at http://www.ibm.com/systems/i/softwar e/access/web/doc.html



Decide what web application server environment to run







Which web application server environment?

System i Access for Web can be deployed to a variety of web serving environments.

Servlets

- Integrated Web application server
- WebSphere Application Server V6.1 for i5/OS (Express, Base, Network Deployment)
- WebSphere Application Server V6.0 for OS/400 (Express, Base, Network Deployment)
- WebSphere Application Server V5.1 Express for iSeries
- WebSphere Application Server V5.1 for iSeries (Base and Network Deployment)
- WebSphere Application Server V5.0 Express for iSeries
- WebSphere Application Server V5.0 for iSeries (Base and Network Deployment)
- ASF Tomcat
 - ASF Tomcat is delivered within the IBM HTTP Server for i5/OS product (5722-DG1)
 - V5R4 i5/OS is last release for ASF Tomcat on i5/OS

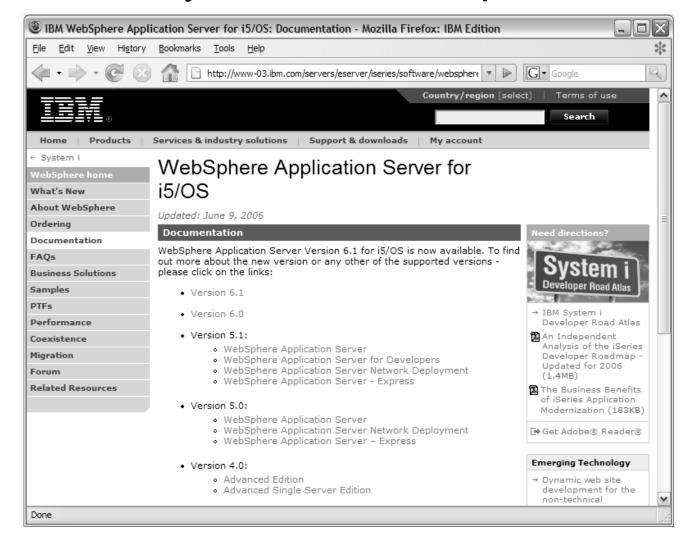
Portlets

- IBM WebSphere Portal Express/Express Plus for Multiplatforms V5.0.2.2
- IBM WebSphere Portal Enable for Multiplatforms V5.1.0.1
- IBM WebSphere Portal V6.0
- IBM Workplace Services Express V2.5, V2.6



WebSphere Application Server

http://www.ibm.com/systems/i/software/websphere/index.html





Install System i Access for Web on your i5/OS system





Install System i Access for Web on your i5/OS system

Installing System i Access for Web

- Use the RSTLICPGM command to restore (install) the licensed program
- RSTLICPGM LICPGM(5722XH2) DEV(OPT01) OPTION(*BASE) V5R4 version
- RSTLICPGM LICPGM(5761XH2) DEV(OPT01) OPTION(*BASE) V6R1 version

The restore will...

- Create library QIWA2 and objects in QIWA2
- Create file system directories
 - /QIBM/ProdData/Access/Web2/...
 - /QIBM/UserData/Access/Web2/...
- Set basic ownership/authorities for library and file system objects

The restore will not...

- Make any changes to HTTP web server configurations
- Make any changes to web application server configurations
- Enable use of System i Access for Web



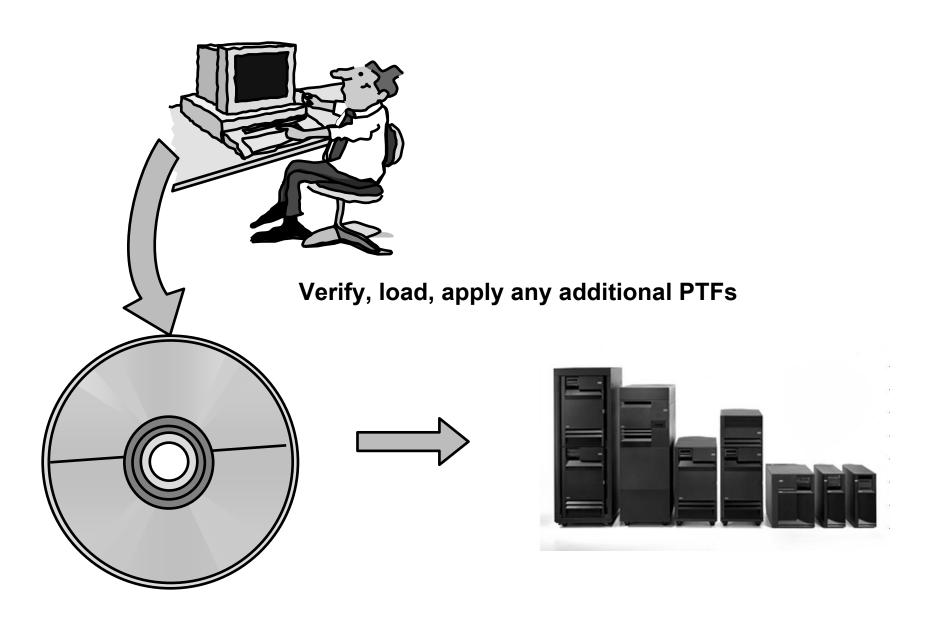
Install System i Access for Web on your i5/OS system (continued)

No coexistence between V5R3, V5R4, V6R1 System i Access for Web

If System i Access for Web is already installed on the i5/OS system...

- Installing/upgrading to a later release will replace the installed version.
- QIWA2/CFGACCWEB2 must be run after installing a newer release of System i Access for Web.
- Running CFGACCWEB2 enables/deploys new functions.
- The web application server must be restarted after CFGACCWEB2 is run.
- Refer to the InfoCenter information on upgrading from a previous release to the latest release of System i Access for Web.







Verify, load, apply any additional PTFs

- Each component of the web application serving environment has PTFs
 - 1. WebSphere Application Server
 - 2. Integrated Web application server
 - 3. i5/OS Cumulative PTF package
 - 4. HTTP web server
 - 5. WebSphere Portal/Workplace Services Express
 - 6. System i Access for Web
- PTFs for the above components should be verified and updated as needed

The following pages provide specific detail on each of the above >



1. WebSphere Application Server

- http://www.ibm.com/systems/i/software/websphere/index.html
- Click the version of WAS, click the PTFs version link, check the latest version available
- V6R1 i5/OS

•	WRKPTFGRP SF99353	v6.1 for i5/OS
•	WRKPTFGRP SF99352	v6.0 for OS/400

V5R4 i5/OS

•	WRKPTFGRP SF99323	v6.1 for i5/OS
•	WRKPTFGRP SF99312	v6.0 for OS/400
•	WRKPTFGRP SF99311	v5.1 Express for iSeries
•	WRKPTFGRP SF99308	v5.1 Base Edition
•	WRKPTFGRP SF99309	v5.1 Network Deployment Edition

V5R3 i5/OS

•	WRKPTFGRP SF99322	v6.1 for i5/OS
•	WRKPTFGRP SF99301	v6.0 for OS/400
•	WRKPTFGRP SF99275	v5.1 Express for iSeries
•	WRKPTFGRP SF99285	v5.1 Base Edition
•	WRKPTFGRP SF99286	v5.1 Network Deployment Edition
•	WRKPTFGRP SF99272	v5.0 Express for iSeries
•	WRKPTFGRP SF99287	v5.0 Base Edition
•	WRKPTFGRP SF99288	v5.0 Network Deployment Edition



- 2. Integrated Web application server
 - http://www.ibm.com/systems/i/software/http/index.html
 - Click the Support tab, review the group PTF information
 - V6R1 i5/OS
 - GA Cumulative PTF package
 - V5R4 i5/OS
 - WRKPTFGRP SF99114
 - V5R3 i5/OS
 - WRKPTFGRP SF99099



- 3. i5/OS Cumulative PTF package
 - The WebSphere Application Server group PTF identifies an i5/OS Cumulative PTF package.
 - The i5/OS PTF package specified is the level the WebSphere group PTF was tested with.
 - You may be able to successfully run with an earlier or later cumulative PTF package.



- 4. HTTP web server
 - http://www.ibm.com/systems/i/software/http/index.html
 - Click the Support tab, review the group PTF information
 - V6R1 i5/OS
 - GA Cumulative PTF package
 - V5R4 i5/OS
 - WRKPTFGRP SF99114
 - V5R3 i5/OS
 - WRKPTFGRP SF99099



- 5. WebSphere Portal/Workplace Services Express
 - Refer to the Portal and Workplace Information Center documentation
 - IBM WebSphere Portal Express/Express Plus for iSeries V5.0.2.2
 - http://publib.boulder.ibm.com/pvc/wp/502/smbi/en/InfoCenter/index.html
 - IBM WebSphere Portal V5.1.0.1
 - http://publib.boulder.ibm.com/infocenter/wp51help/index.jsp
 - IBM WebSphere Portal V6.0
 - http://publib.boulder.ibm.com/infocenter/wpdoc/v6r0/index.jsp
 - IBM Workplace Services Express V2.5
 - http://publib.boulder.ibm.com/infocenter/wseic/v2r5/index.jsp
 - IBM Workplace Services Express V2.6
 - http://publib.boulder.ibm.com/infocenter/wseic/v2r6/index.jsp



6. System i Access for Web

http://www.ibm.com/systems/i/software/access/web/servicepacks.html

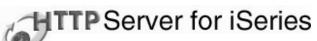
- V6R1 SI29664
 - Contains support for integrated Web application server Admin and user created instances
- V5R4 SI29607
 - Contains support for WAS V6.1, Workplace Services Express V2.6, Portal V6.0, integrated web application server Administrative instance

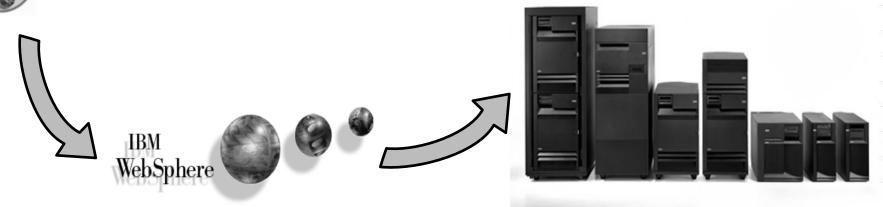
Linux i386.rpm
 Linux ppc.rpm
 Sl24994
 Linux ppc64.rpm
 Linux x86-64.rpm
 AFP Plugin Viewer
 Sl24995
 Sl24996

- Always check the cover letter special instructions, may have to run CFGACCWEB2 to enable changes.
- Always check the website for latest PTF numbers











Step by Step

Setup web-serving environment

Tier 2 Tier 1 Tier 3 **HTTP** Web Application web server Server <u>Servlet</u> Java Web browser **JSPs** Beans i5/OS **Host applications** Internet **Database** Need to create...



HTTP web server

- Front door for into your web serving environment
- HTTP/HTTPS (SSL)
- Listens for web requests on a specific TCP/IP port
- An HTTP server is configured to "talk" to a specific web application server
- Routes web requests between and end-user browser and a web application sever

WebSphere web application server (WAS)

- Profiles (instances) are created containing a web application server
- The web application server provides an environment for the deployment and management of web applications
- Many different WAS versions can be installed and coexist on an i5/OS system
- All web applications running within a web application server share the same name space.
- You could create multiple profiles (instances) on a single i5/OS for the following reasons:
 - To create separate development environments for different developers. This allows them to have different versions of the same objects in their own name space.
 - To create separate development and test environments

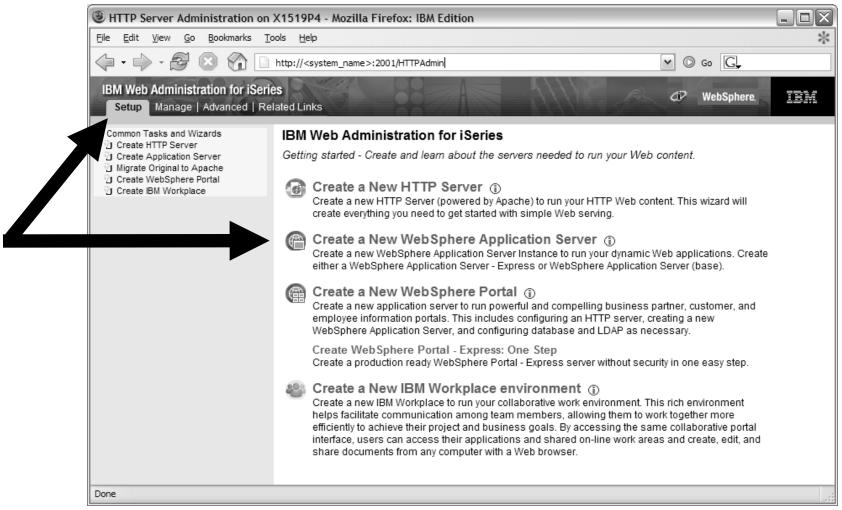


Use IBM Web Administration for i5/OS

- Easy to use wizard that prompts for required information and does all the work
- STRTCPSVR SERVER(*HTTP) HTTPSVR(*ADMIN)
- http://<system_name>:2001/HTTPAdmin

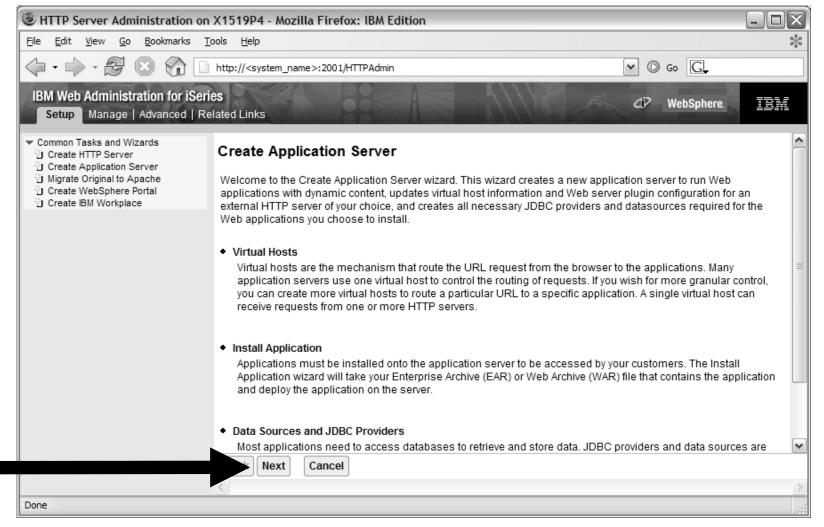


Setup → Create Application Server



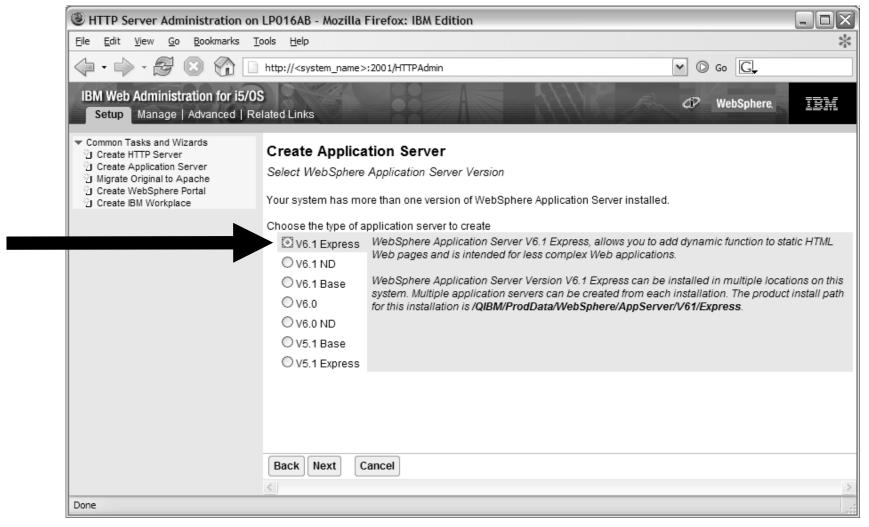


Click Next



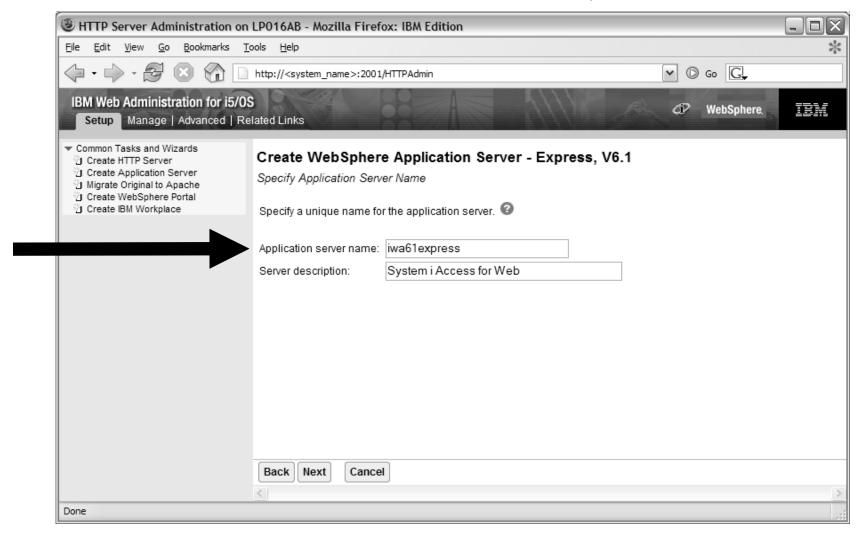


Select version of WebSphere Application Server, click Next



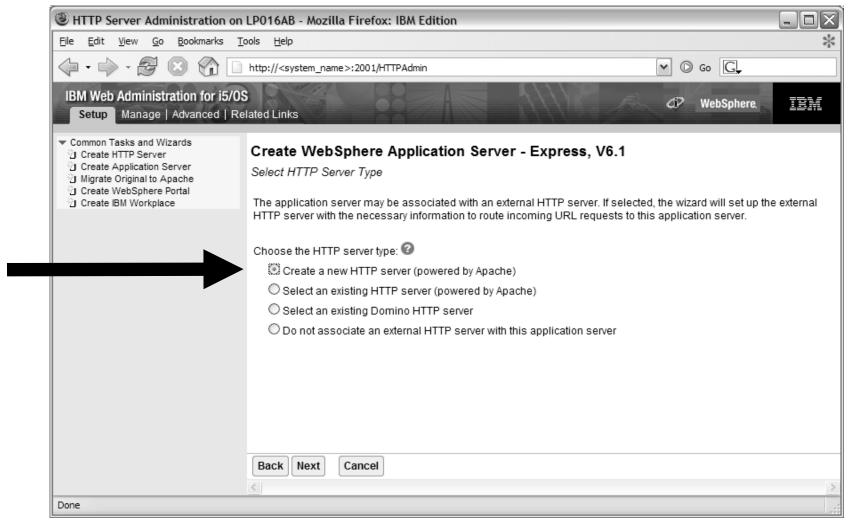


Enter a name for the web application server, optionally a description, click Next



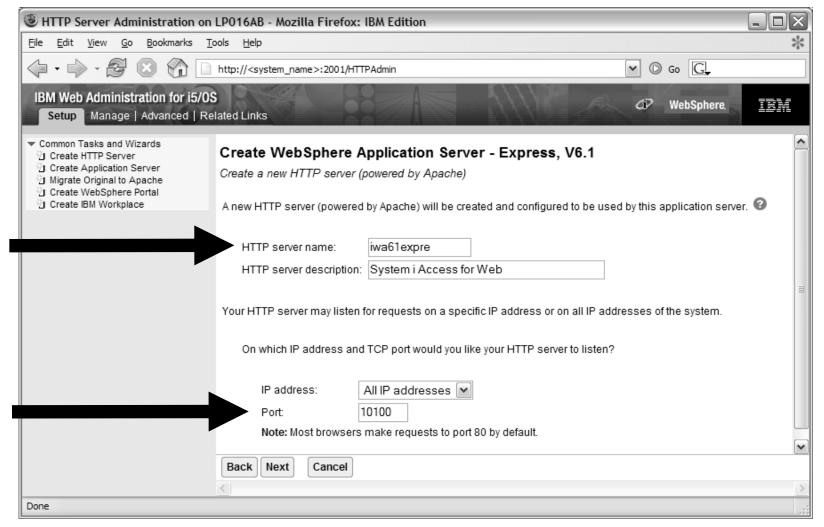


Select Create a new HTTP server, click Next



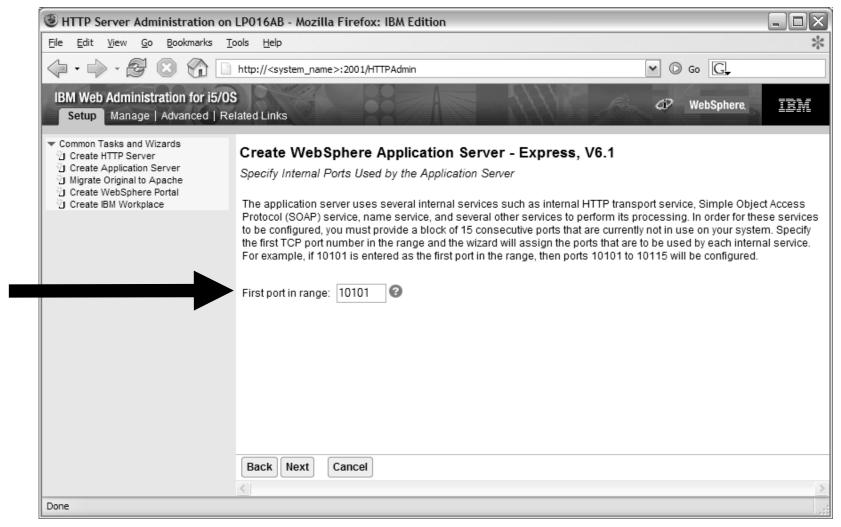


Enter name for HTTP server, optional description, port for this HTTP web server, click Next



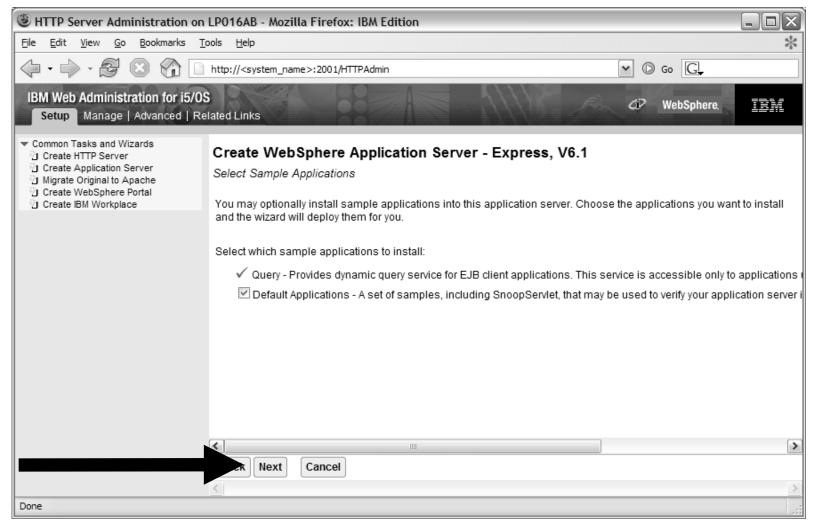


Enter first port in a range of available ports, click Next



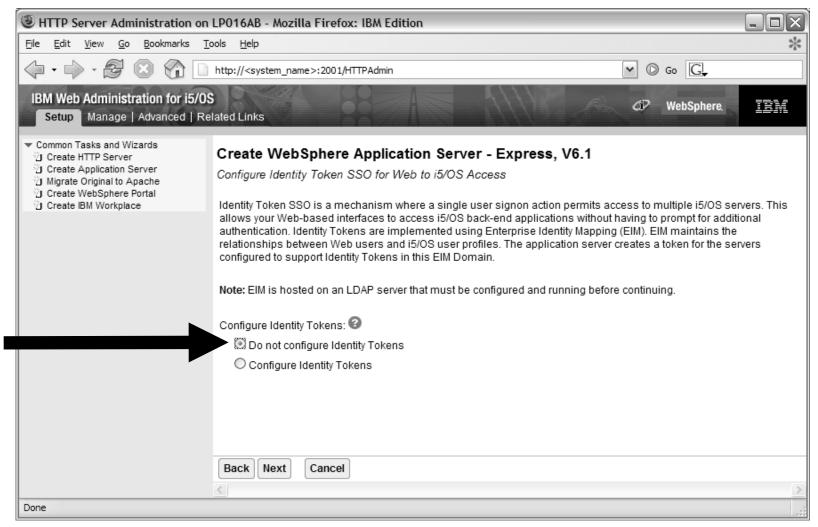


Click Next



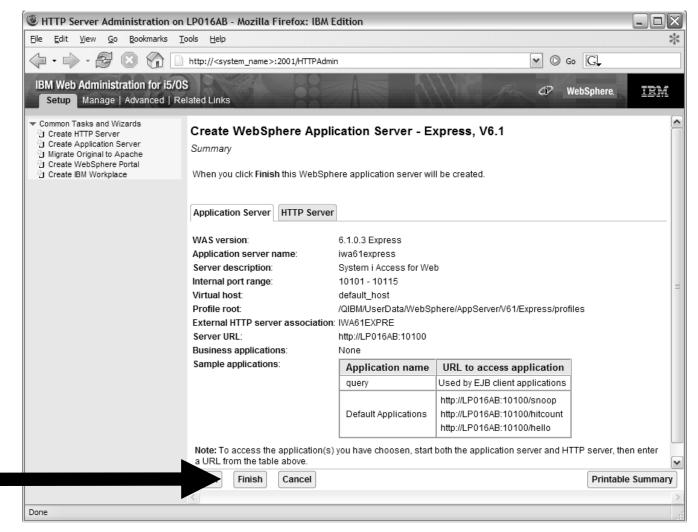


Information Center has information for configuring SSO environment



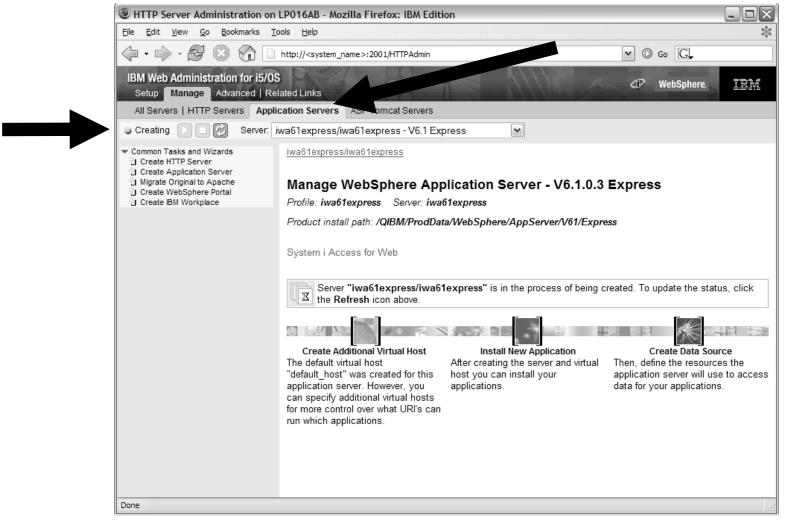


Click Finish to create the web-serving environment



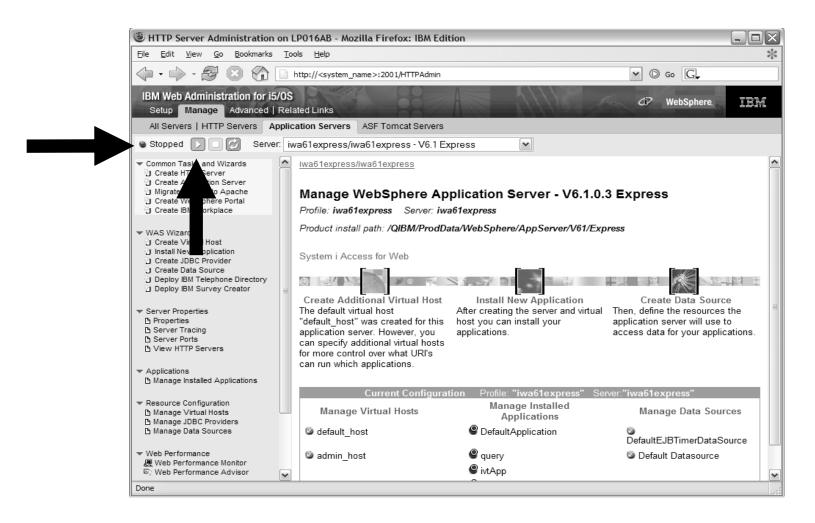


Page refreshes to Manage → Application Servers tab, status of Creating...





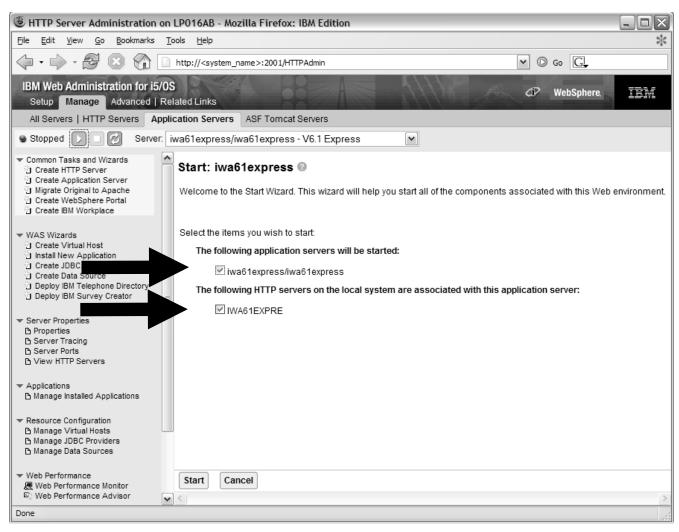
Environment is created when status reaches Stopped, Click start icon to start





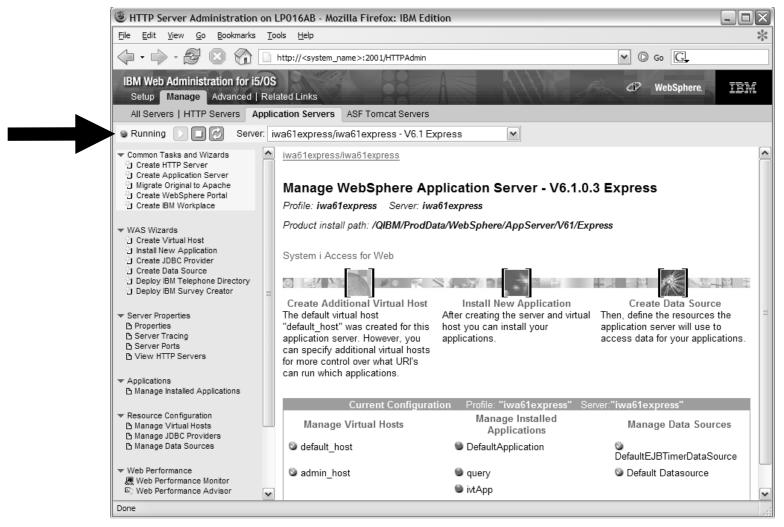
Page is refreshed listing the application servers and HTTP web server that will be

started





Environment is ready for use when status reaches Running





Tips for managing the Web Administration for i5/OS and HTTP web servers

- To start/stop the IBM Web Administration for i5/OS interface
 - STRTCPSVR *HTTP HTTPSVR(*ADMIN)
 - ENDTCPSVR *HTTP HTTPSVR(ADMIN)
- To access the IBM Web Administration for i5/OS interface
 - http://<system name>:2001/HTTPAdmin
- CL commands to start/stop the HTTP web servers
 - STRTCPSVR *HTTP HTTPSVR(<my http server name>)
 - ENDTCPSVR *HTTP HTTPSVR(<my http server name>)
- HTTP web servers run within the QHTTPSVR subsystem



WebSphere Application Server V6.1 information

- Subsystem
 - Runs in QWAS61 subsystem
 - WRKACTJOB SBS(QWAS61)
 - Jobs (web application server) are named with the name of the web application server
- Instances vs. profiles
 - Previous WAS versions had "instances". V6.1 has "profiles".
 - A default profile is created named "default". The web application server it contains is named "server1".

- i5/OS integrated file system
 - /QIBM/ProdData/WebSphere/AppServer/V61/Base/...
 - /QIBM/UserData/WebSphere/AppServer/V61/Base/...
 - /QIBM/ProdData/WebSphere/AppServer/V61/Express/...
 - /QIBM/UserData/WebSphere/AppServer/V61/Express/...
 - /QIBM/ProdData/WebSphere/AppServer/V61/ND/...
 - /QIBM/UserData/WebSphere/AppServer/V61/ND/...
 - These paths are defaults.
 - WAS 6.1 can be installed anywhere in the IFS
 - WAS 6.1 profiles can be created anywhere in the IFS.

Note: If using WAS Network Deployment product, the profile cannot be federated/managed in the Network Deployment environment



WebSphere Application Server V6.0 information

- Subsystem
 - Runs in QWAS6 subsystem
 - WRKACTJOB SBS(QWAS6)
 - Jobs (web application server) are named with the name of the web application server
- i5/OS integrated file system
 - /QIBM/ProdData/WebSphere/AppServer/V6/Base/...
 - /QIBM/UserData/WebSphere/AppServer/V6/Base/...

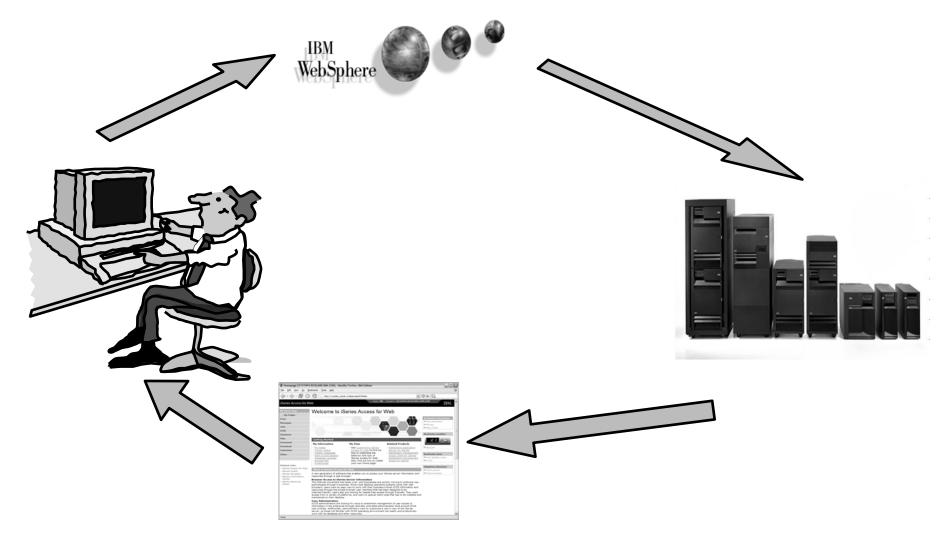
Note: Profiles can be created to user specified paths, above is the default path.

- Instances vs. profiles
 - Previous WAS versions had "instances". V6.0 has "profiles".
 - A default profile is created named "default". The web application server it contains is named "server1".

Note: If using WAS Network Deployment product, the profile cannot be federated/managed in the Network Deployment environment



Configure System i Access for Web





Configure System i Access for Web

System i Access for Web must be deployed (configured) to a running web application server

System i Access for Web provides CL and QShell commands

- CL commands QIWA2 library
 - CFGACCWEB2 Configure System i Access for Web
 - STRACCWEB2 Start System i Access for Web
 - ENDACCWEB2 End System i Access for Web
 - RMVACCWEB2 Remove System i Access for Web
- QShell /QIBM/ProdData/Access/Web2/install
 - cfgaccweb2 Configure System i Access for Web
 - straccweb2 Start System i Access for Web
 - endaccweb2 End System i Access for Web
 - rmvaccweb2 Remove System i Access for Web

Commands are provided to...

- Ease the complexity of deploying a web application
- Check dependencies
- Invoke appropriate WebSphere tool to deploy a web application
- Perform additional required setup
- /QIBM/UserData/Access/Web2/ ... structure
- Allows for PTFs that make use of the normal i5/OS PTF tools



Use available documentation →

- System i Access for Web Information Center
 - Place to start to get System i Access for Web installed and running

When the commands are run \rightarrow

- The WebSphere web application server must be running before running the CFGACCWEB2 or RMVACCWEB2 commands
- The WebSphere web application server will need to be restarted after the CFGACCWEB2 or RMVACCWEB2 commands
 - No updates are made to the HTTP web server configuration.

Notes

- Do not use the web administration interface or WebSphere Admin console to configure (deploy) or remove System i Access for Web
- Do not attempt to migrate a WebSphere environment to another WebSphere environment when System i Access for Web is configured



To configure the webserving environment created above using the CL command	QIWA2/CFGACCWEB2 APPSVRTYPE(*WAS61EXP) WASPRF(iwa61express) APPSVR(iwa61express)
To configure the webserving environment created above using the QSH command	 QSH cd /QIBM/ProdData/Access/Web2/install cfgaccweb2 –appsvrtype *WAS61EXP –wasprf iwa61express –appsvr iwa61express

- Now the web application server environment must be stop/restarted to load the configuration changes that were made for System i Access for Web
- Note:

Use the help text for the commands to learn more about the command and individual parameters

- Some help is available for the QSH commands
- cfgaccweb2 -? -help



CFGACCWEB2/cfgaccweb2 commands accept other parameters

•	•
Tells Access for Web to connect and serve data to another i5/OS system — If not specified, the local i5/OS running the web environment will be used	TGTSVR [*DEFAULT, fully qualified system name]
Specifies whether the web application (System i Access for Web) or the web application server (WebSphere) will authenticate the user	 AUTHTYPE [*APP, *APPSVR] AUTHMETHOD [*FORM, *BASIC, *KERBEROS]
Input a WAS user ID/password for WAS profiles where WAS security has been enabled	WASUSRIDWASPWD
Configure new web application servers based on existing web application where Access for Web is configured	 SRCSVRTYPE [*ASFTOMCAT, *WAS50, *WAS50EXP, *WAS51, *WAS51EXP, *WAS60,] SRCSVRINST - Name of the WAS instance/profile or Tomcat server SRCAPPSVR - Name of WAS application server within the instance/profile SRCINSDIR - Install path of WAS V6.1 profile SHRUSRDTA - Copy the user data to the new configuration or share the user data between the old and new configurations.



Note:

- When upgrading from one WAS version to another where Access for Web is configured, do not migrate the WAS instance/profile where Access for Web is configured.
- To migrate System i Access for Web from WAS 5.1 Express to WAS 6.1 Express
 - Install WAS 6.1 Express
 - Create a WAS 6.1 Express profile
 - Configure Access for Web to WAS 6.1 Express based on the WAS 5.1 Express configuration.

cfgaccweb2

- –appsvrtype *WAS61EXP
- –wasprf iwa61express
- –appsvr iwa61express
- -wasinsdir /QIBM/ProdData/WebSphere/AppServer/V61/Express
- -srcsvrtype *WAS51EXP
- -srcsvrinst iwa51exp
- -srcappsvr iwa51exp
- -shrusrdta *NO
- Remove the WAS 5.1 Express configuration if it's no longer needed.

rmvaccweb2

- –appsvrtype *WAS51EXP
- -wasprf iwa51exp
- –appsvr iwa51exp



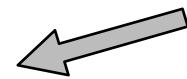




Verify the installation and configuration



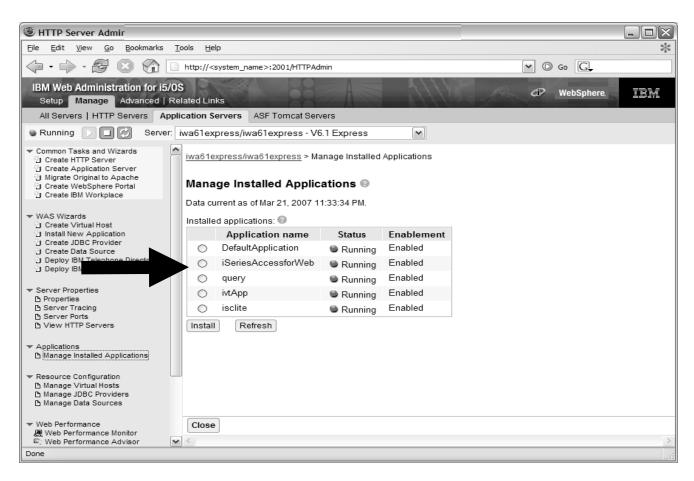






Verify the installation and configuration

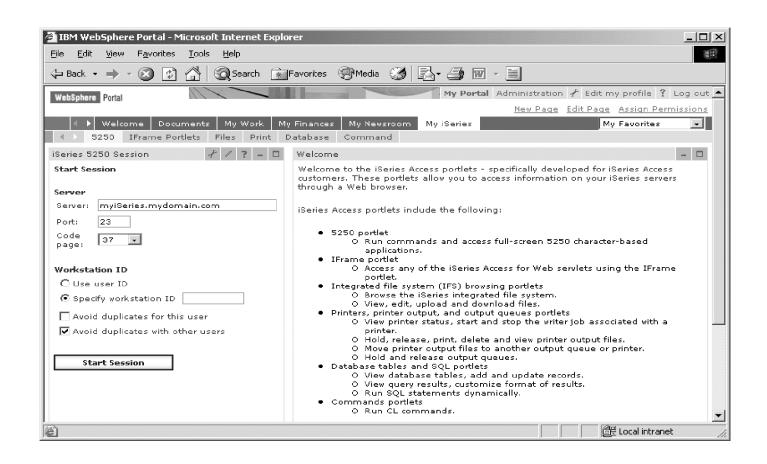
IBM Web Administration for i5/OS → Applications → Manage Installed Applications





Verify the installation and configuration (continued)

WebSphere Portal → My iSeries page + subpages with portlets





Verify the installation and configuration (continued)

HTTP web server

- Verify several jobs are running with the name of your HTTP web server
 - WRKACTJOB SBS(QHTTPSVR)

WebSphere Application Server

- Verify the web application server is running
 - WRKACTJOB SBS(QWAS61) →V6.1 WAS for i5/OS
 - WRKACTJOB SBS(QWAS6) → V6.0 WAS for OS/400

System i Access for Web

- Open browser to http://<system_name>:<port>/webaccess/iWAHome
- Open browser to http://<system_name>:<port>/webaccess/iWAMain



When things do not work

- Verify the HTTP web server is running
- Verify the WebSphere web application server was restarted after running CFGACCWEB2
- Verify the WebSphere web application server is running
- Verify you have the latest group PTFs for the HTTP web server and WebSphere Application Server.
- Verify that System i Access for Web is listed as an installed application in the WebSphere application server (via the IBM Web Administration for i5/OS interface)
- Look at System i Access for Web logs

High level translated log	/QIBM/UserData/Access/Web2/logs/cmds.log
Low level untranslated log	/QIBM/UserData/Access/Web2/logs/cmdstrace.log
Logs for specific WAS servers. Note: some logs may be EBCDIC requiring use of WRKLNK i5/OS command to view them	/QIBM/UserData/Access/Web2/logs/ <appsvrtype>/ <wasprf>/<appsvr>/logs/*</appsvr></wasprf></appsvrtype>



When things do not work (continued)

WAS V6.1 - Express

- /QIBM/UserData/WebSphere/AppServer/V61/Express/profiles/profile_name/logs/wsadmin.traceout
- /QIBM/UserData/WebSphere/AppServer/V61/Express/profiles//cprofile_name
- /QIBM/UserData/WebSphere/AppServer/V61/Express/profiles//profile_name/logs/<app_server_name</pre>/SystemOut.log
- /QIBM/UserData/WebSphere/AppServer/V61/Express/profiles/profile_name/logs/<app_server_name</pre>/SystemErr.log

WAS V6.1 Network Deployment

- /QIBM/UserData/WebSphere/AppServer/V61/ND/profiles/profile name/logs/wsadmin.traceout
- /QIBM/UserData/WebSphere/AppServer/V61/ND/profiles//clips/activity.log
- /QIBM/UserData/WebSphere/AppServer/V61/ND/profiles/profile_name>/logs/<app_server_name>/SystemOut.log
- /QIBM/UserData/WebSphere/AppServer/V61/ND/profiles/profile_name>/logs/<app_server_name>/SystemErr.log



When things do not work (continued)

WAS V6.0

- /QIBM/UserData/WebSphere/AppServer/V6/Base/profiles/profile_name>/logs/wsadmin.traceout
- /QIBM/UserData/WebSphere/AppServer/V6/Base/profiles//clips/activity.log
- /QIBM/UserData/WebSphere/AppServer/V6/Base/profiles//profile_name/logs/<app_server_name</pre>/SystemOut.log
- /QIBM/UserData/WebSphere/AppServer/V6/Base/profiles/profile_name/logs/<app_server_name</pre>/SystemErr.log

WAS Network Deployment V6.0

- /QIBM/UserData/WebSphere/AppServer/V6/ND/profiles/profile_name>/logs/wsadmin.traceout
- /QIBM/UserData/WebSphere/AppServer/V6/ND/profiles//clips/activity.log
- /QIBM/UserData/WebSphere/AppServer/V6/ND/profiles//clie_name/logs/<app_server_name</pre>/SystemOut.log
- /QIBM/UserData/WebSphere/AppServer/V6/ND/profiles/profile_name>/logs/<app_server_name>/SystemErr.log

WAS V6.1 (base edition)

- /QIBM/UserData/WebSphere/AppServer/V61/Base/profiles//cprofile_name/logs/wsadmin.traceout
- /QIBM/UserData/WebSphere/AppServer/V61/Base/profiles//cprofile_name
- /QIBM/UserData/WebSphere/AppServer/V61/Base/profiles//clips/<app_server_name</pre>/SystemOut.log
- /QIBM/UserData/WebSphere/AppServer/V61/Base/profiles/profile_name>/logs/<app_server_name>/SystemErr.log



Questions regarding the Step by Step option?





Additional Setup Considerations

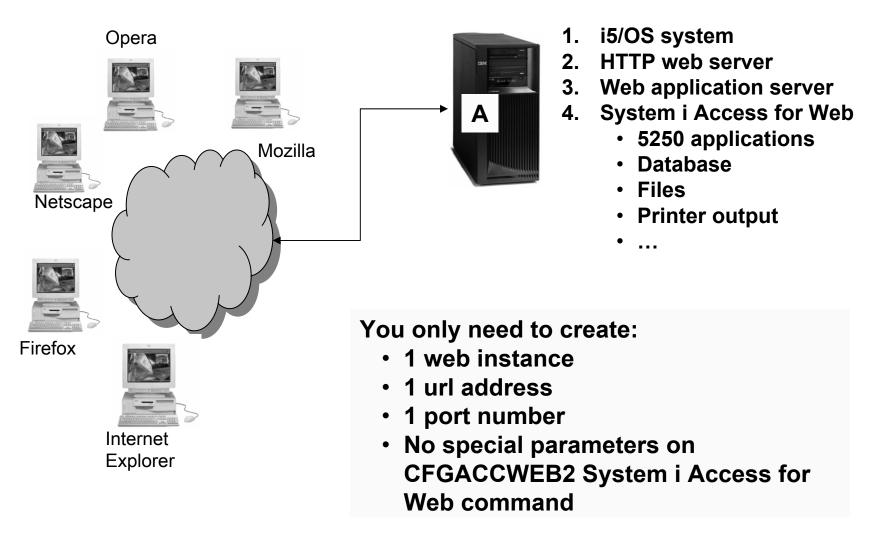
- Would it be possible for my users to access their data from home over the internet?
- What would the setup/environment look like?
- How would security be enabled to protect the network?
- Could the web environment be isolated from the servers containing data?



Let's look at some examples...

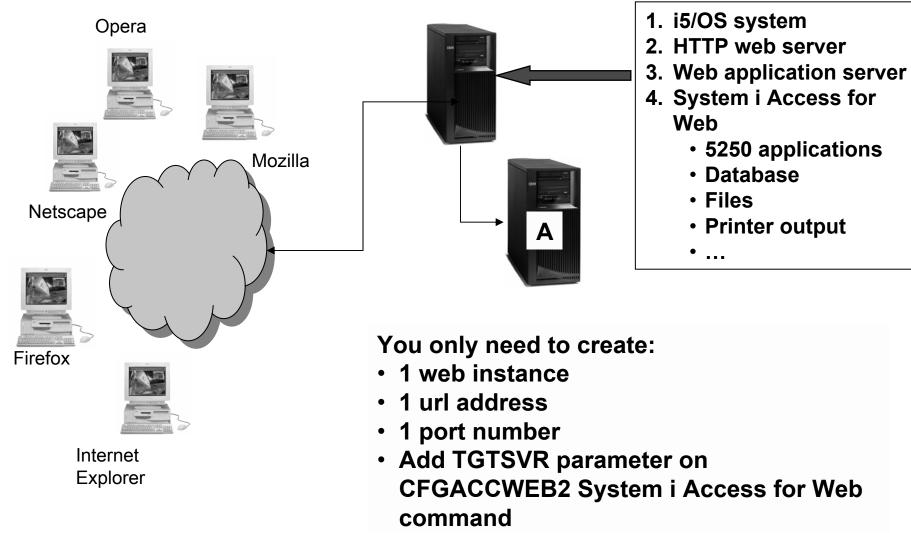


Only need a single configuration



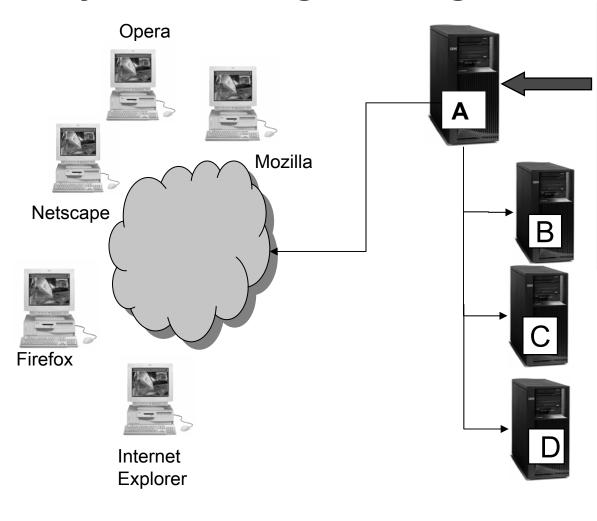


Only need a single configuration





Only need a single configuration



- 1. Multiple i5/OS system's
- 2. HTTP web server installed
- 3. Web application server installed
- System i Access for Web → needing only to access i5/OS systems B, C, D using only
 - 5250
 - Database

You only need to create:

- 1 web instance
- 1 url address
- 1 port number
- No special parameters on CFGACCWEB2 System i Access for Web command

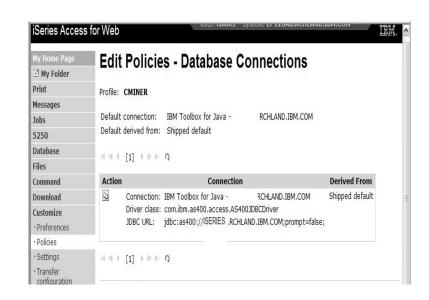


Use 5250 and Database to any system in the network

Can connect to any System i in the network and run 5250 emulation and Database (upload, download, work with tables, etc)

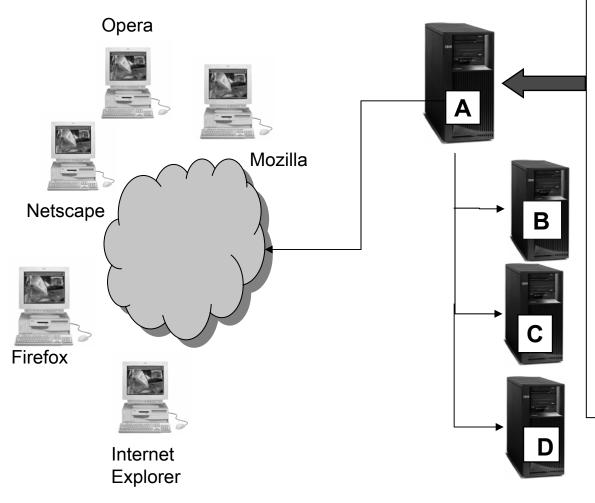
- 5250 Emulation
 - Provides a panel to start a 5250 session and save this session configuration
- Database
 - You can add additional connections via Policy → Database Connections
 - These additional connections are then available to users on the Database screens.







Need multiple configurations



- 1. Multiple i5/OS system's
- 2. Multiple HTTP web servers
- 3. Multiple web application servers
- 4. Single System i Access for Web application

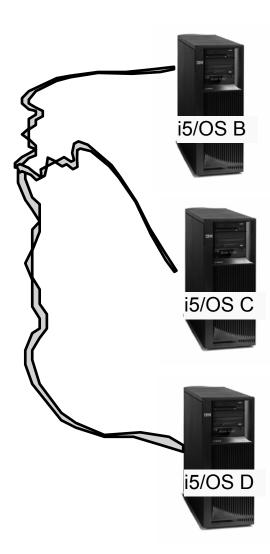
Use all System i Access for Web functions on backend i5/OS systems

- 5250 applications
- Database
- Files
- Printer output
- ...



Backend i5/OS

- The backend i5/OS systems B, C, D contain data.
- They are inside the company network.
- i5/OS systems B, C, D do not have web serving software installed, let's assume they don't.
- Want some users to be able to always connect to i5/OS B, some others to i5/OS C, and some others to i5/OS D





Setting up i5/OS A

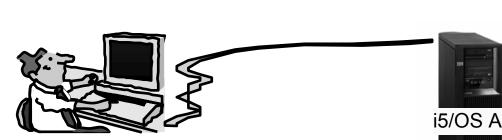




- Administrator sets up i5/OS A
- i5/OS A has HTTP/HTTPS, WebSphere Application Server or integrated Web application server, System i Access for Web installed.
 - Configures 3 HTTP web servers using 3 different port numbers (ie, ports 5001, 5002, 5003) → one for i5/OS B, one for i5/OS C, and one for i5/OS D
 - Configures 3 web application server instances (one for each backend i5/OS system)
 - Configures System i Access for Web in each web application server instance (uses TGTSVR parameter on CFGACCWEB2 command)



Setting up Systems B, C, and D

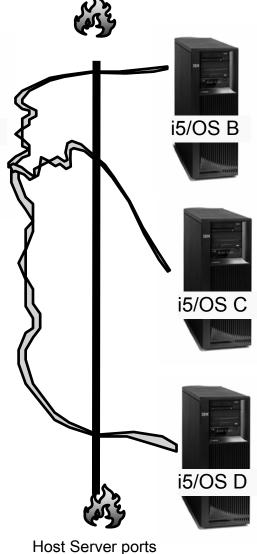


i5/OS B, C, and D...

- Must have 57xx-XW1 System i Access Family installed for licensing purposes
- 57xx-XH2 System i Access for Web installed (RSTLICPGM) but not configured

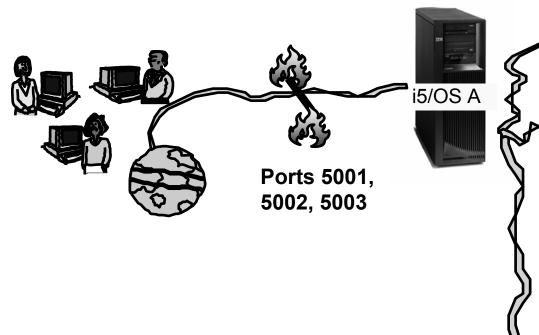
Firewalls → a firewall can be set up between the web serving system (A) and the data systems (B, C, D)

 System i Access for Web requires you to open the Host Server ports because it is running on A and only connecting to B, C, D.





Access from Internet



Web environment on i5/OS A is started

 3 HTTP web servers listening on ports 5001, 5002, 5003

System i Access for Web is accessed using...

- http://A:5001/webaccess/iWAMain to get to systemB
- http://A:5002/webaccess/iWAMain to get to systemC
- http://A:5003/webaccess/iWAMain to get to systemD

Please note:

i5/OS B

i5/OS C

i5/OS D

Host Server ports

This is only one example of how to configure this environment.



User starts browser and keys in url address...

System i Access for Web user is providing a different address to get to each i5/OS system... - http://A:5001/webaccess/iWAMain to get to systemB http://A:5002/webaccess/iWAMain to get to systemC http://A:5003/webaccess/iWAMain to get to systemD iSeriesD.DFW.IBM.COM User Name Save this password in your password list Cancel The user must provide the correct i5/OS user ID and password for the backend data server to gain access. iSeriesD.DFW.IBM.COM User Name Save this password in your password list Cancel

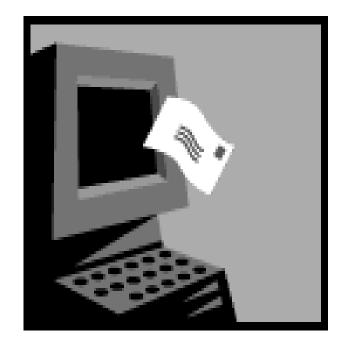








Integrating with your network mail server





Integrate User's email with System i Access for Web

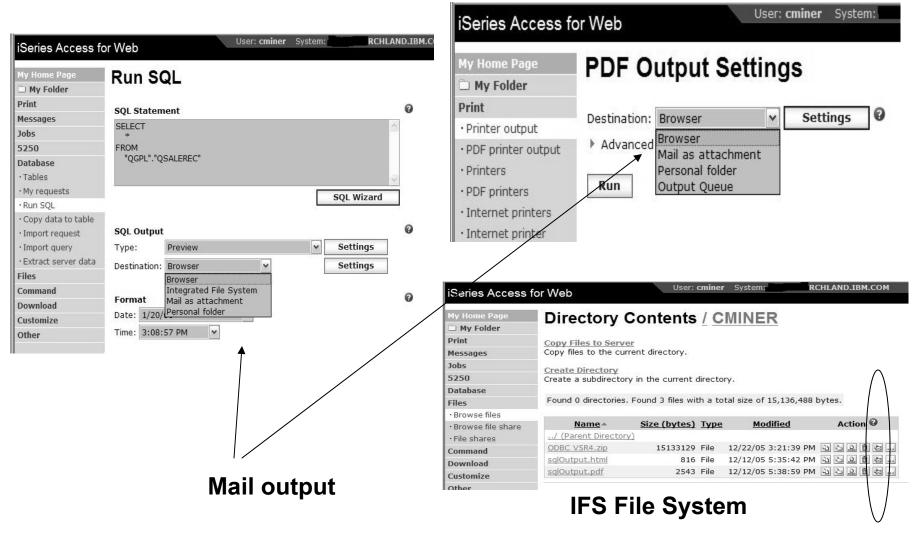
- Can send results of the following System i Access for Web functions:
 - PDF view of print information
 - Database (SQL) results
 - Information stored in the IFS
 - CL command
- Sent as an attachment to 'email'
- One-step way to distribute information across the network, and particularly useful when recipient is:
 - Not an i5/OS user
 - Does not have access to a web browser





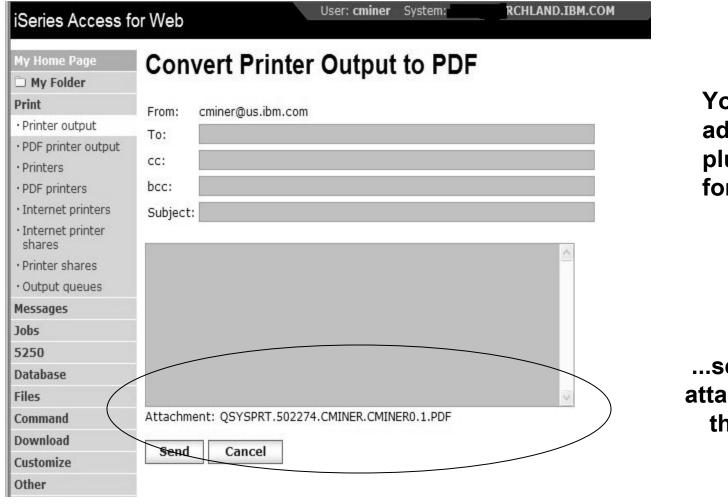
Users can easily email results

'Mail' option displays for function of Access for Web that supports 'Mail'





Send your e-mail



Your email address plugged in for you...

...see PDF attachment there...



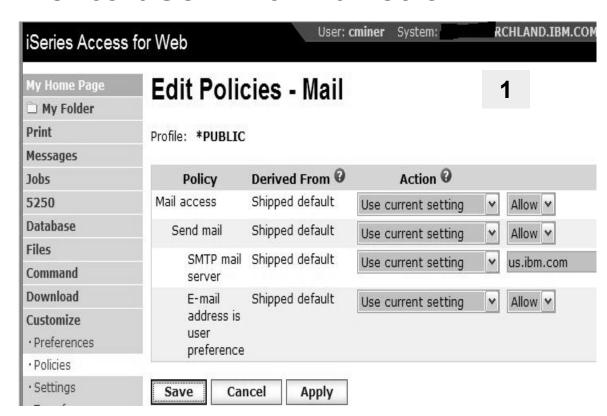
How to set up Access for Web to use e-mail

- Do nothing
 - If you currently use OS/400 System Distribution Directory (SDD) to store your e-mail addresses, then do nothing to Access for Web.
 - If no SMTP address has been provided, Access for Web will look in SDD for e-mail address for signed-on user
- Use Access for Web 'Customize' function to set up SMTP mail server address and each user's e-mail address
 - Use Policies (*PUBLIC) to set SMTP mail server address for everyone
 - Use Policies for each user to add unique e-mail address, or
 - Let each user use Preferences to set up their own e-mail address
- Use 'Import Policy Settings' function to provide all e-mail addresses to Access for Web



You must 'Customize' to use Email function

- You need to identify your SMTP Server address
- Use *PUBLIC to set up SMTP Server address
 - You probably have same SMTP server address for all users



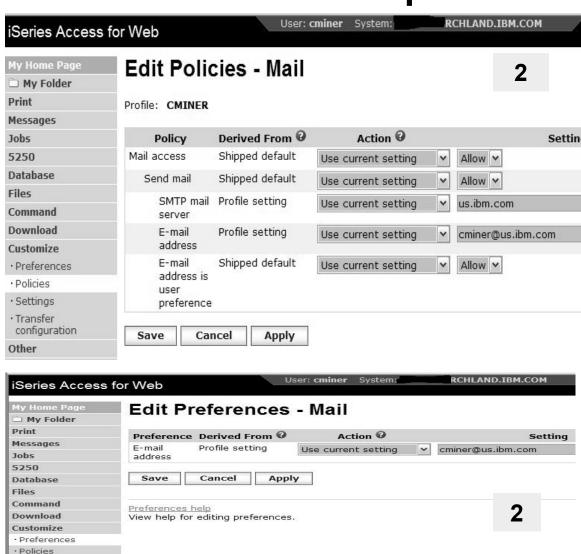
Note:

If the SMTP server address is blank, Access for Web will query the system distribution directory (SDD) for email config info for your profile



All Users' Email addresses must be set up

- e-Mail address must be set for each user
 - Administrator could go into each user's profile and set email address
 - Each user could do this themselves through 'Preferences'

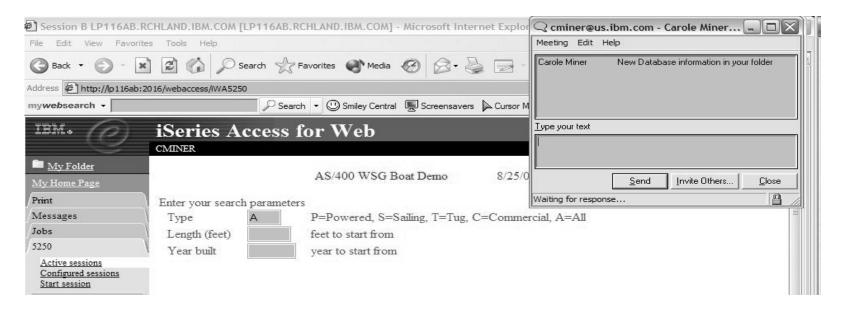




Integration with Lotus Sametime

You can receive Sametime messages:

- When something is added to 'My Folder' -- this could be someone has put something new in my folder or a database or CL command request that I previously submitted has completed
- The administrator/system operator has sent a break message

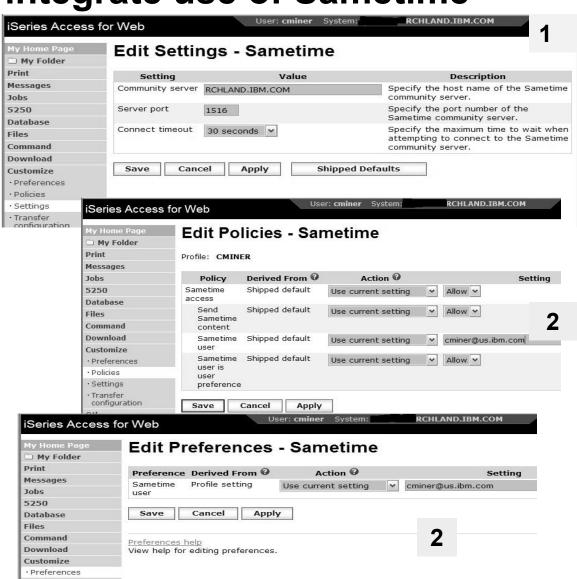


You must have a Sametime Server installed in your network and accessible from your System i. Sametime is an add-on product to Lotus Notes.



Setup needed to integrate use of Sametime

- Use Settings to globally set up Sametime server address and port number
- Use Policies to individually include each user's Sametime address
 - -- or --
- Let each user use Preferences to set up their own Sametime address





Import Policies from existing mail server directory

The policy settings for multiple user profiles can be updated by using the Import Policies (one request)

- This eliminates need for each profile to be individually updated
- Email addresses and SAMETIME addresses



Administrators are only able to import policy settings to user and group profiles for which they have at least *CHANGE object authority



Import Policies requires a file type of .XML (example)



Import Policies with Sametime as well (example)

```
<?xml version="1.0" encoding="utf-8" standalone="yes"?>
<QiwaPolicies>
  <mail>
        <fromEmailAddress>tsmith@myMailServer.com</fromEmailAddress>
      </mail>
      <sametime>
        <userName>tsmith@mySametime.com</userName>
      </sametime>
   </profile>
 continue
       <mail>
         <fromEmailAddress>cjones@myMailServer.com</fromEmailAddress>
       </mail>
       <sametime>
          <userName>cjones@mySametime.com</userName>
       </sametime>
  </profile>
</QiwaPolicies>
```



Auto-start Web environment after an IPL?

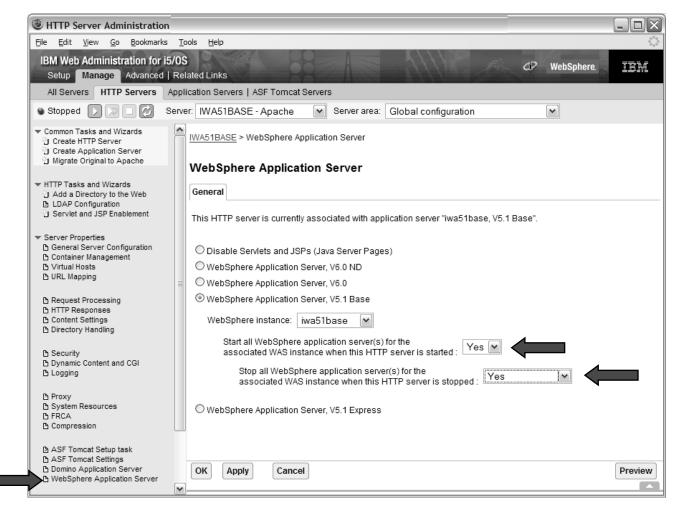


- You can configure the HTTP web server to automatically start the WebSphere application server when it starts
- Use the following command to start the HTTP web server as part of your IPL procedures and it will start your WebSphere application server.
 - STRTCPSVR SERVER(*HTTP) HTTPSVR(<http_server_name>)



Auto start web environment after an IPL (continued)

STRTCPSVR SERVER(*HTTP) HTTPSVR(IWA51BASE)





If using WAS Network Deployment

- For the WebSphere Application Server Network Deployment environment
 - WebSphere v5.0/5.1 Base Edition must be installed
 - WebSphere v6.0 Base/Express Edition must be installed
 - System i Access for Web does not support WebSphere instances/profiles that are federated to the WebSphere Network Deployment environment





System i & WebSphere Resources & Deliverables

iSeries Information Center http://www.ibm.com/iseries/infocenter

iSeries site www.iseries.ibm.com/

iSeries WebSphere Application Server http://www-1.ibm.com/servers/eserver/iseries/software/websphere/wsappserver/

PartnerWorld for Developers, iSeries & WebSphere http://www.iseries.ibm.com/developer/websphere/

IBM eServer Solutions http://www-1.ibm.com/servers/eserver/iseries/solutions/

iSeries e-business Solutions http://www-1.ibm.com/servers/eserver/iseries/ebusiness/

iSeries B2B Solutions http://www-1.ibm.com/servers/eserver/iseries/btob/

Connect for iSeries http://www-1.ibm.com/servers/eserver/iseries/btob/connect/v11high.html

WebSphere Commerce Suite for iSeries http://www-1.ibm.com/servers/eserver/iseries/ebusiness/wcs51.html

iSeries and e-commerce http://www-1.ibm.com/servers/eserver/iseries/ebusiness/ecommerce.htm

iSeries HTTP Server http://www-1.ibm.com/servers/eserver/iseries/software/http/index.html

WebSphere Development Studio for iSeries http://www-3.ibm.com/software/ad/wds400/ iSeries and WebSphere References http://www.as400.ibm.com/developer/java/solutions/jjem.html http://www2.software.ibm.com/casestudies/swcsweb.nsf/platform

iSeries Solution Finder http://www.iseries.ibm.com/btobpartner/

iSeries & Domino http://www-1.ibm.com/servers/eserver/iseries/domino/

Dedicated Server for Domino http://www-1.ibm.com/servers/eserver/iseries/domino/dsd.htm

Workload Estimator for iSeries, WAS, WCS & Domino, HTTP Server, Java, etc. http://as400service.ibm.com/estimator/

iSeries Custom Technology Center http://www-1.ibm.com/servers/eserver/iseries/service/ctc/

iSeries Technical Support http://as400service.ibm.com/

iSeries Technical Studio http://www.as400.ibm.com/tstudio/

1st Install for iSeries & WebSphere Application Server http://www.iseries.ibm.com/developer/websphere/assistance.html

iSeries ToolsNet (Tools & Middleware) http://www.iseries.ibm.com/developer/tools/

iSeries & Services Network http://as400service.ibm.com/supporthome.nsf/document/19251245

iSeries e-business Handbook (SG24-5694-01) http://www.redbooks.ibm.com/abstracts/sg245694.html



System i & WebSphere Resources & Deliverables

WebSphere Commerce Suite With Back-End Order Mgmt. http://ibm.com/redbooks

iSeries Technology Center

http://www.iseries.ibm.com/service/itc/ebiz.htm

iSeries University

http://www-3.ibm.com/services/learning/community/as400/

WebSphere Application Server Overview

http://www-4.ibm.com/software/webservers/appserv/

iSeries & WebSphere Documentation

WebSphere Commerce Suite www-4.ibm.com/software/webservers/commerce/

WebSphere Payment Manager

www-4.ibm.com/software/webservers/paymgr/

MQSeries

www.ibm.com/software/ts/mqseries

IBM Redbooks

http://www.redbooks.ibm.com/

iSeries Nation

http://www-1.ibm.com/servers/eserver/iseries/announce/form.html

Redbooks & Red Pieces

Form Numbers/Web Sites

Building iSeries Applications for WebSphere Advanced Edition

SG24-

5691

Building Java Applications for the iSeries with VisualAge for Java SG24-6245

Integrating WCS with Domino Back-End Applications

http://ibm.com/redbooks (search for REDP0141)

Java & WebSphere Performance on iSeries

http://publib-b.boulder.ibm.com/Redbooks.nsf/RedpieceAbstracts/sg246256.html?Open

iSeries Application Development Directions white paper is now available

http://www.iseries.ibm.com/developer/tools/documents/addir/index.html

Connect for iSeries with WebSphere Commerce Suite Red Paper

http://www.redbooks.ibm.com/redpapers/pdfs/redp0127.pdf

Tools for Application Reface and Redesign

http://www.as400.ibm.com/developer/comm/pidtechpapers.html?Tools

Introduction to Enterprise JavaBeans for AS/400 SG24-

5192-00

Web enabling AS/400 Applications with WebSphere Studio SG24-

5634-00

Building AS/400 Applications with WebSphere Standard Edition 2.0 SG24-5635-00

Building AS/400 C/S Apps with Java

SG24-2152-02

Building AS/400 Internet-based applications with Java

SG24-5337-00



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