

Deep Dive Into System i Access for Web Session 2:

Configuration and Controlling Access

November 2008

Linda Hirsch LLHIRSCH@us.ibm.com <u>http://www.ibm.com/systems/i/software/access/web</u>



Agenda

- Part 1: Installation and Configuration
 - Hardware and software requirements
 - Supported web serving environments
 - Configuration steps

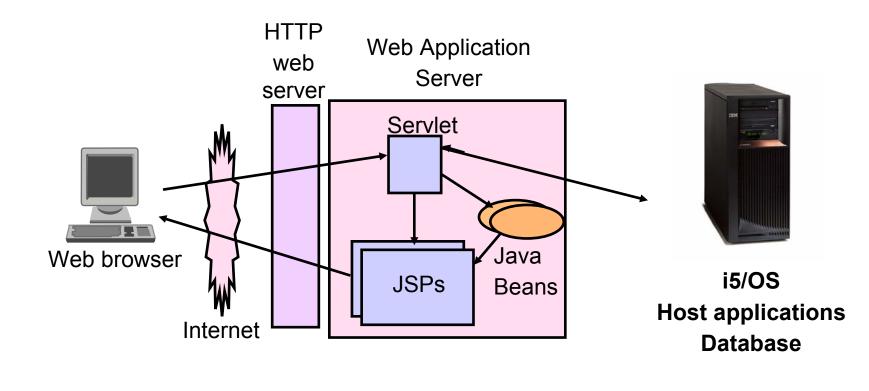
- Part 2: Runtime Considerations
 - Use of policies
 - Customizing the home page/template files



Part 1: Installation and Configuration



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:

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

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

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

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

- 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



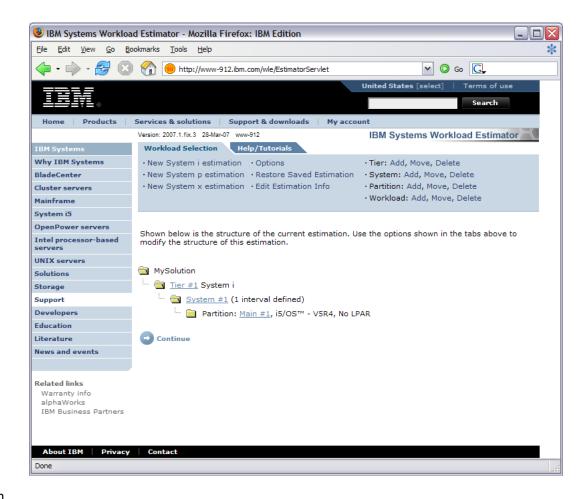
Performance...???

- 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: <u>http://www-912.ibm.com/wle/EstimatorServlet</u>
 - 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
 - <u>http://publib.boulder.ibm.com/infocenter/wasinfo/v6r1/index.jsp?topic=/com.ibm.websphere.base.iseri</u>
 <u>es.doc/info/iseries/ae/welc6topinstalling.html</u>



Performance Considerations...

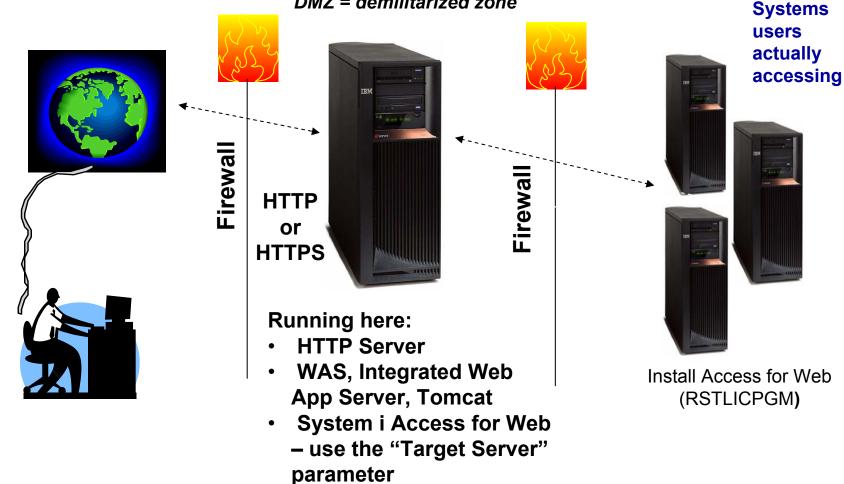
Use the IBM Systems Workload Estimator at http://www-912.ibm.com/wle/EstimatorServlet





Setting up your web application server

DMZ = demilitarized zone



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

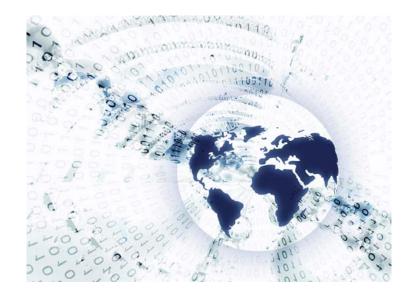
*See Information APAR II12227 for detailed information

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



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 Pack 1 (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 5761-SS1	V5R4 System i Access for Web: V5R3 or V5R4 i5/OS V6R1 System i Access for Web: V5R4 or V6R1 i5/OS	Base	w/HW
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	30	N/C
57xx-SS1	 If you plan to use Secure Sockets Layer (SSL) i5/OS Digital Certificate Manager Cryptographic Service Provider 	34 35	N/C N/C
57xx-DG1	IBM HTTP Server for iSeries	Base	N/C
57xx-JV1	Developer Kit for Java 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)	Base 5 6 7 8	N/C N/C N/C N/C
57xx-JC1	Toolbox for Java	Base	N/C
57xx-TC1	TCP/IP Connectivity Utilities for iSeries	Base	N/C

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



i5/OS Software Requirements (continued)

Product Number	Product Name	Option	\$
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 <u>is not</u> 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	 <u>One, or more, of the following web servers</u> 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 serverApache 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
- Portal V5.0.2.2
- Portal V5.1.0.1
- Portal V6.0
- Workplace V2.5
- Workplace V2.6
- ASF Tomcat

- http://www.ibm.com/systems/i/software/websphere/index.html/
- http://publib.boulder.ibm.com/pvc/wp/502/smbi/en/InfoCenter/index.html
 - http://publib.boulder.ibm.com/infocenter/wp51help/index.jsp
 - http://publib.boulder.ibm.com/infocenter/wpdoc/v6r0/index.jsp
 - http://publib.boulder.ibm.com/infocenter/wseic/v2r5/index.jsp
 - http://publib.boulder.ibm.com/infocenter/wseic/v2r6/index.jsp
 - http://www.ibm.com/systems/i/software/http/index.html/



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

V5R4 System i Access for Web

– 365MB

470MB

V6R1 System i Access for Web



System i Access for Web - Web Serving Environments Supported



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

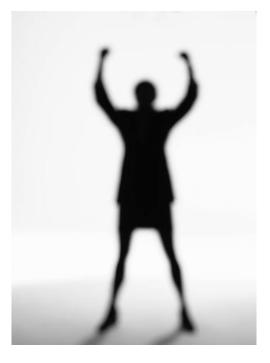






1. Integrated Web Application Server

- 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 on

V5R4 or V6R1 i5/OS)

- 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
 - QSH
 - 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 HTTP port you specified
 - http://>system_name>:<port>/webaccess/iWAMain

8. Done! © 2008 IBM Corporation



Integrated Web application server

Questions regarding the integrated Web application server option?





2. Web Enable Feature – Express Runtime Environment



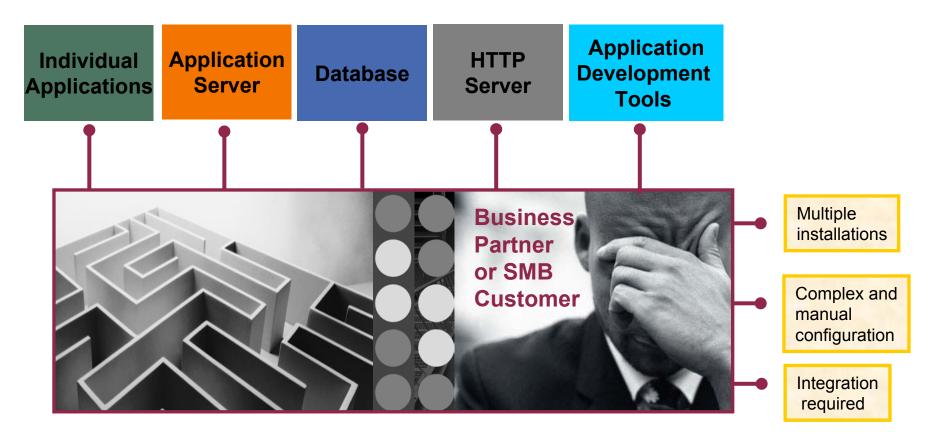
- All components provided in a single package
- Greatly simplifies the complexity of the environment
- Most automated
- Running web environment when installation completes
- Desktop icon linking to the deployed web environment



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

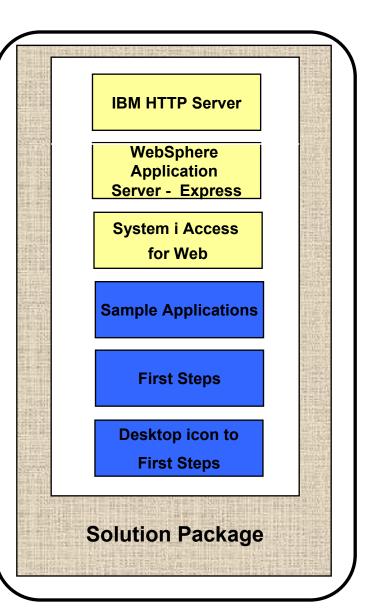




What is the solution?

• Put all the parts/pieces into a single package

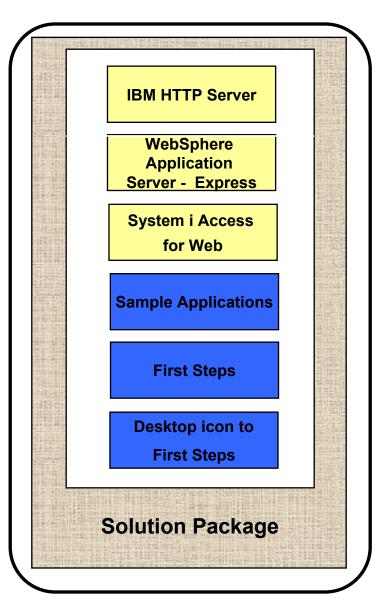
- Middleware components
 - HTTP web server
 - WAS Express 6.x
 - System i Access for Web
 - PTFs are included
- Sample applications modernizing an RPG application (flight400) using the following technologies:
 - HATS, WebFacing, Web Services
- First Steps
 - Web page with links to System i Access for 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

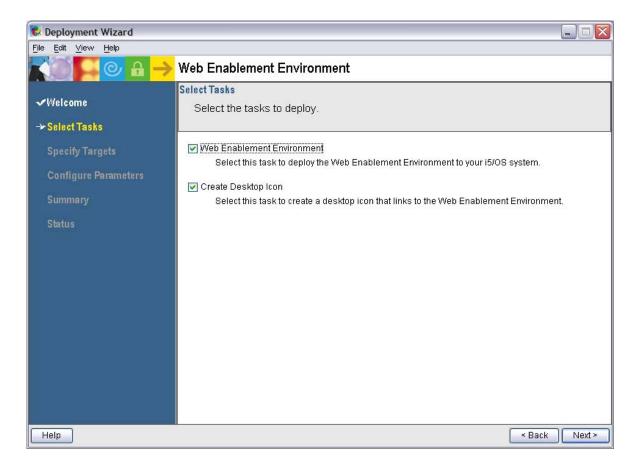
- Read the ReadMe packaged with the product
 - Verify requirements for Windows workstation and i5/OS system
- From a Windows workstation, launch the deployment wizard
 - Provide credentials
 - Specify i5/OS system to deploy
 - Name the HTTP web server, WebSphere profile/application server, ports
 - Optionally 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



Demonstration

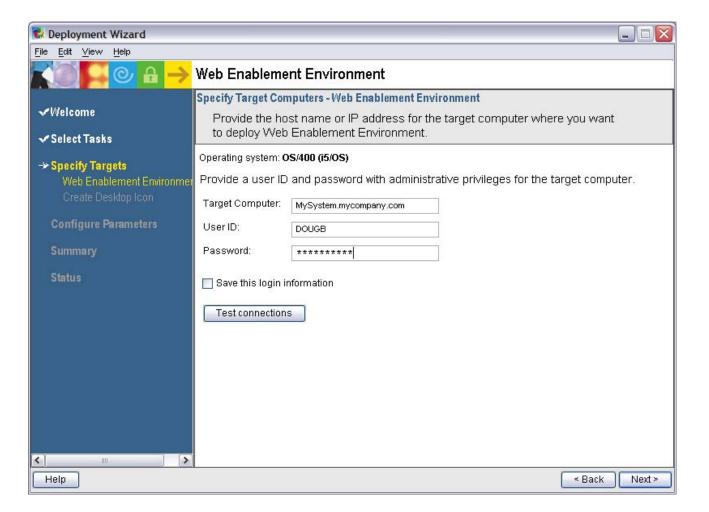
Launch the wizard. Deploy the web environment and create the desktop icon to the FirstSteps webpage





Demonstration (continued)

Name of i5/OS system to deploy the environment to

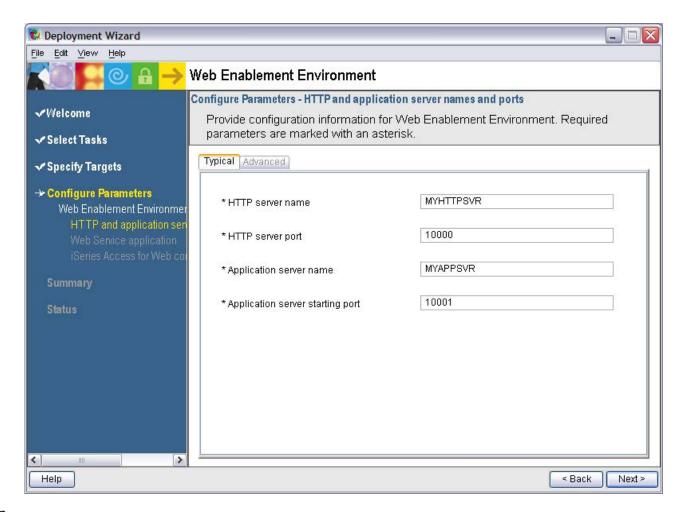




Demonstration (continued)

Name the HTTP web server and it's port

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





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
- 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



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

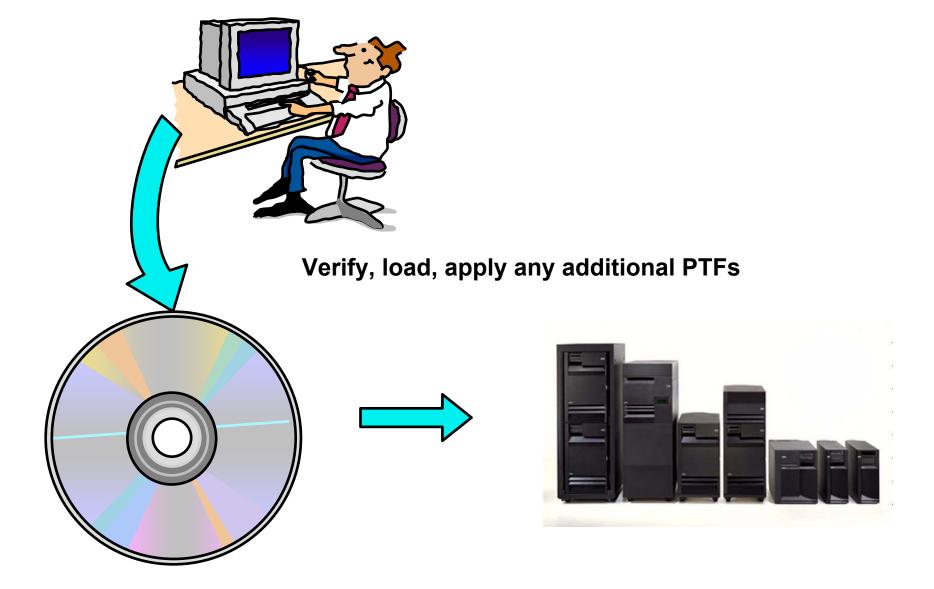
The restore will not...

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











Verify, load, apply any additional PTFs

- Each component of the web application serving environment has PTFs
 - 1. WebSphere Application Server
 - http://www.ibm.com/systems/i/software/websphere/index.html
 - 2. Integrated Web application server
 - http://www.ibm.com/systems/i/software/http/index.html
 - 3. i5/OS Cumulative PTF package
 - 4. HTTP web server
 - http://www.ibm.com/systems/i/software/http/index.html
 - 5. WebSphere Portal/Workplace Services Express
 - Refer to the Portal and Workplace Information Center documentation
 - 6. System i Access for Web
 - http://www.ibm.com/systems/i/software/access/web/servicepacks.html
- PTFs for the above components should be verified and updated as needed





Setup up web-serving environment



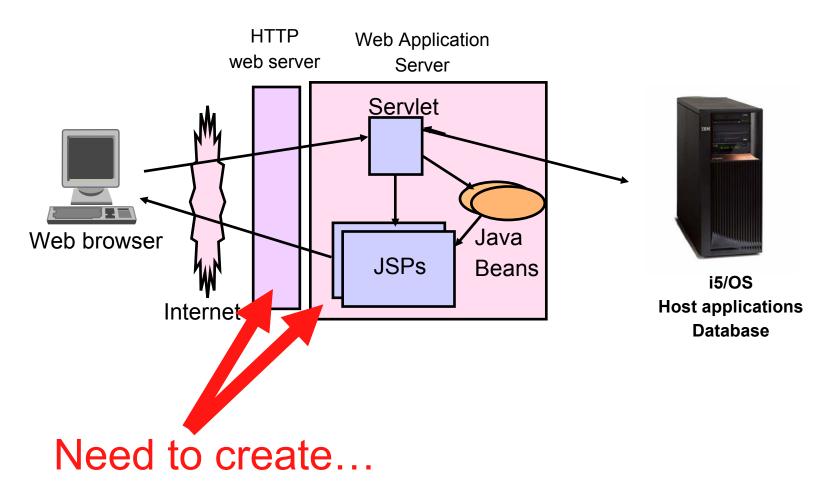


Step by Step Setup web-serving environment

Tier 1



Tier 3





Notes: Set up web-serving environment

- 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



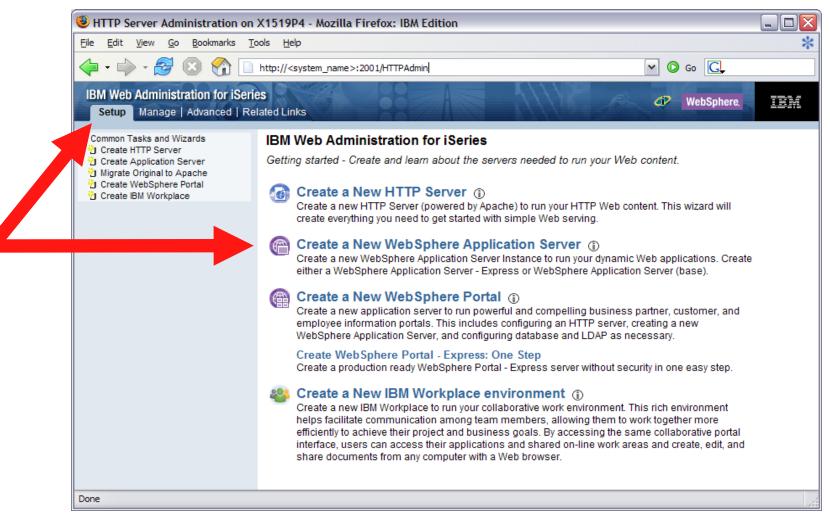
Setup web-serving environment

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



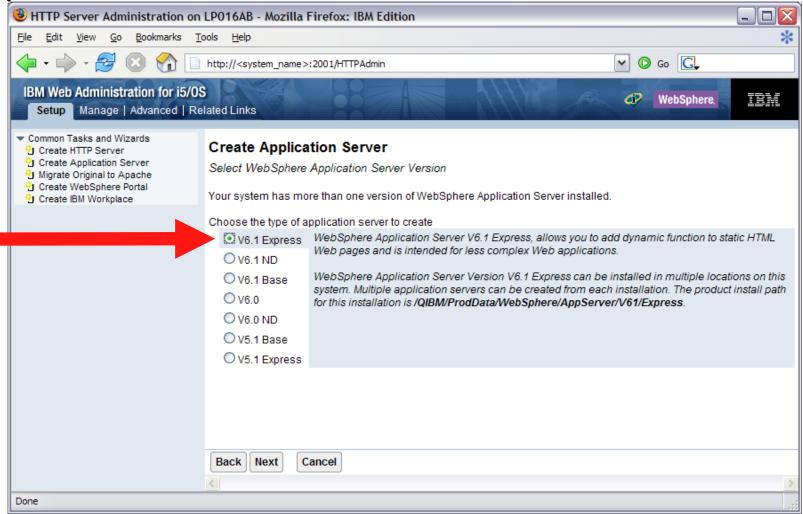
Setup \rightarrow Create Application Server





Select version of WebSphere Application Server of those installed on your

system



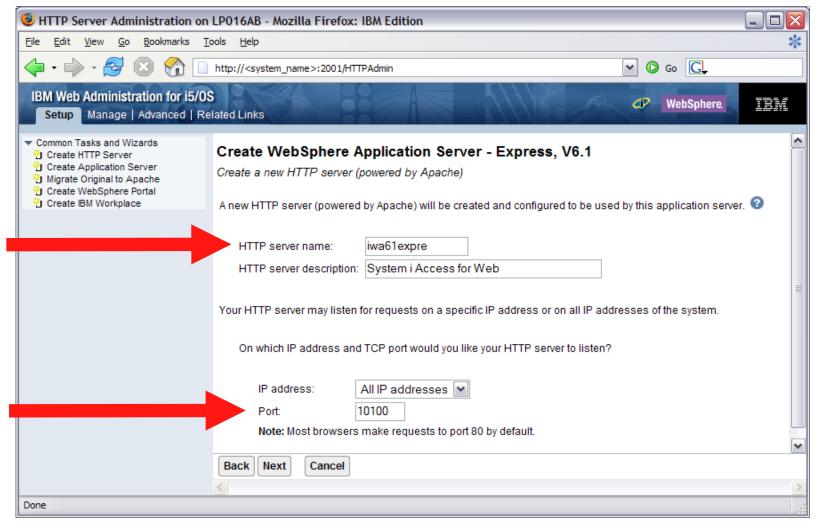


Enter a name for the web application server, optionally a description

🕲 HTTP Server Administration on LP016AB - Mozilla Firefox: IBM Edition				
Eile Edit <u>V</u> iew <u>G</u> o <u>B</u> ookmarks <u>T</u> ools <u>H</u> elp				
IBM Web Administration for i5/0 Setup Manage Advanced R			De WebSphere.	IBM
Common Tasks and Wizards Create HTTP Server Create Application Server Migrate Original to Apache Create WebSphere Portal Create IBM Workplace	Specify Application Serv	r the application server. 2		
Done	Back Next Cance	4		

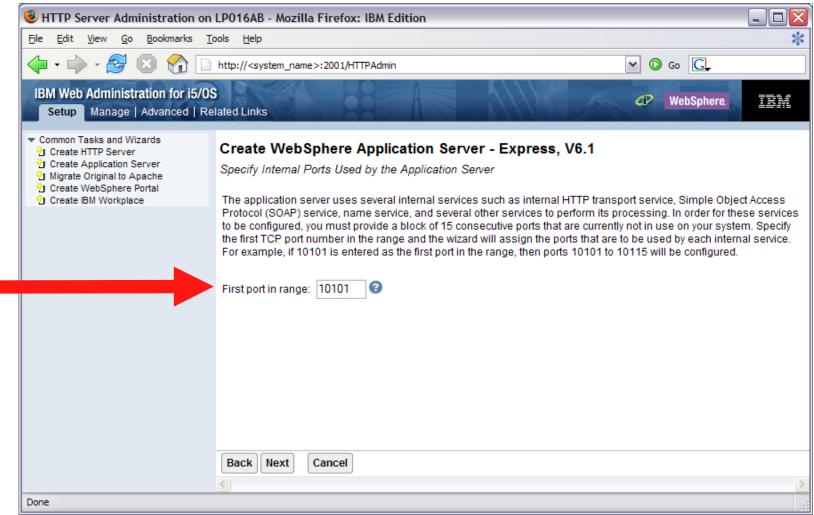


Enter name for HTTP server, optional description, port on which this HTTP server will listen





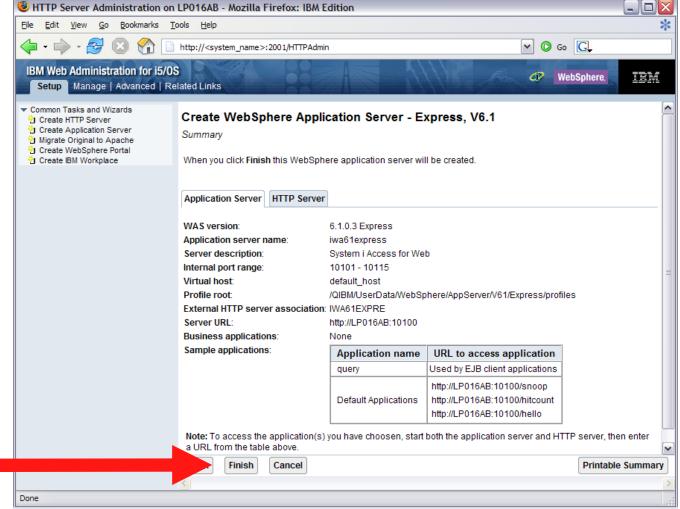
Enter first port in a range of available ports – the communication ports between the HTTP server and WAS





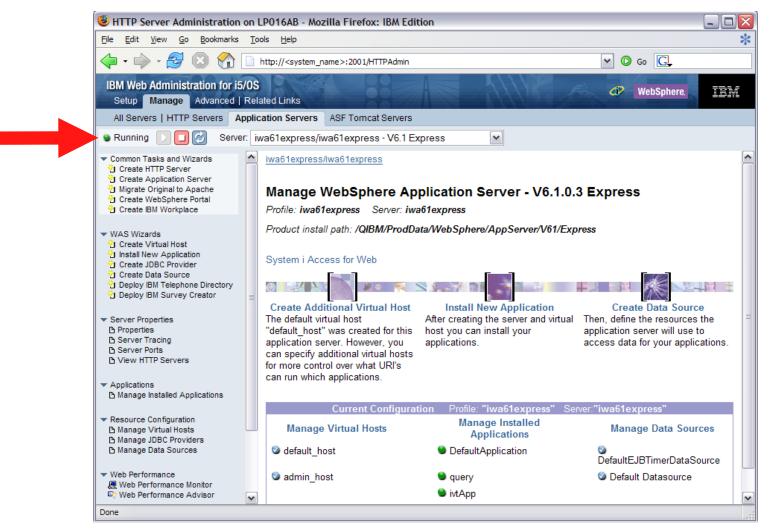
A few other steps in the wizard, then click Finish to create the web-serving

environment



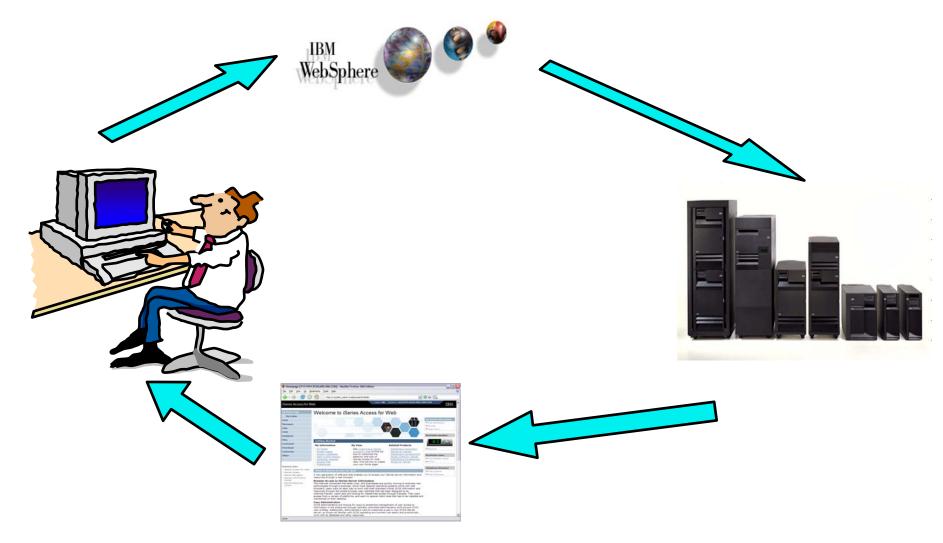


Environment is ready for configuratoin when status reaches Running





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



Configure System i Access for Web (continued)

Use available documentation \rightarrow

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

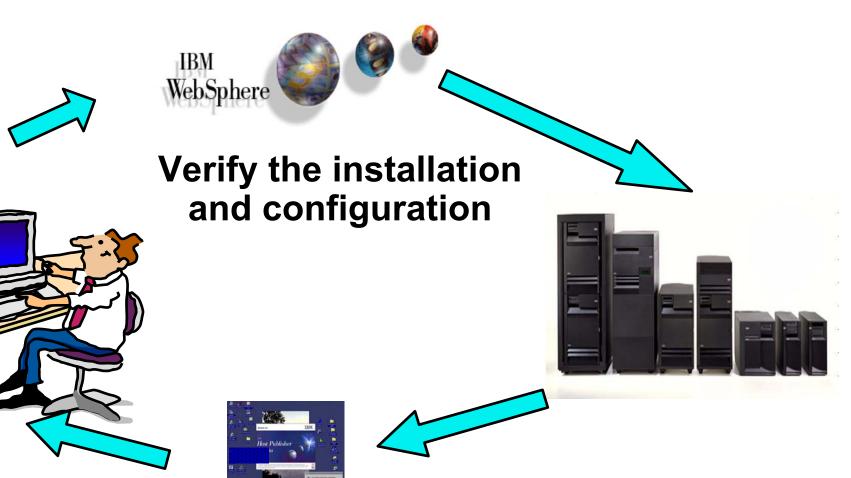
When the commands are run \rightarrow

- 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

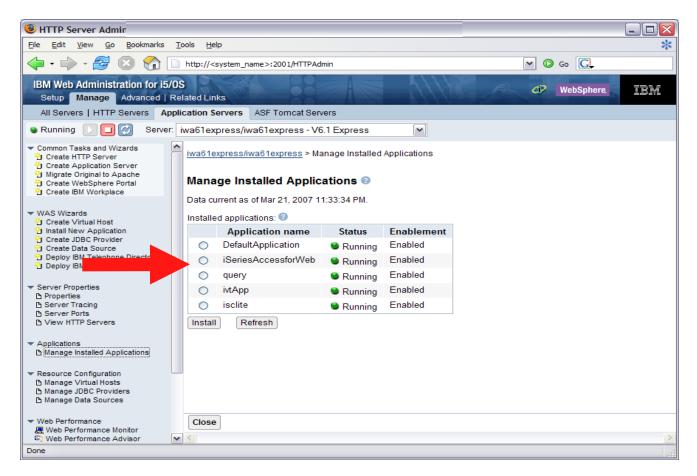






Verify the installation and configuration

IBM Web Administration for i5/OS \rightarrow Applications \rightarrow Manage Installed Applications





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 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/cmdstrace.log /QIBM/UserData/Access/Web2/logs/ <appsvrtype>/<wa sprf>/<appsvr>/logs/*</appsvr></wa </appsvrtype>

 Next, if needed, the doc will lead you to the WebSphere Application Server or Portal logs



Part 2: Runtime Considerations



3 methods to control access using System i Access for Web

Administration Policies

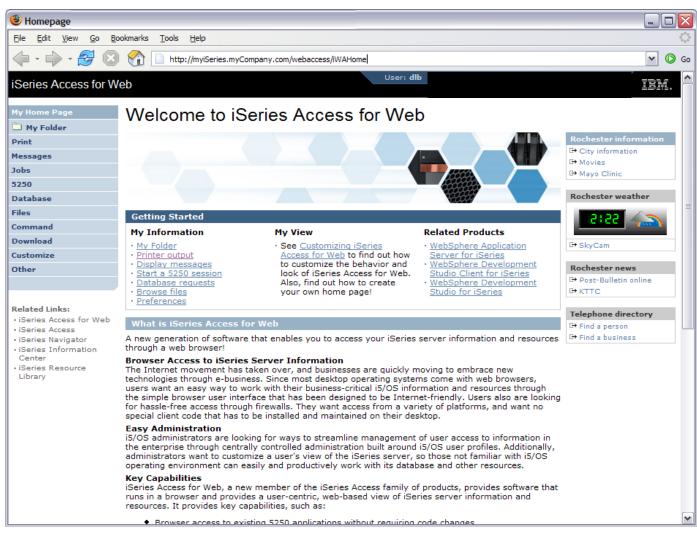
 Administrators can use the Customize function to set policies for users and groups of users.

User Preferences

- Users can set their own Preferences for things like
 - What tabs are available in the navigation bar
 - How to view output (default rows/columns per page)
 - How to filter output
- Customize the Home page and template files
 - Administrators can use the Customize function to replace the default System i Access for Web home page with their own home page.
 - Administrators can use the Customize function to replace the default template that defines the layout, look, and feel of System i Access for Web pages
 - Style sheets The look of the System i Access for Web page content is now controlled by external style sheets.



Home Page = http://<myiseries>:<port>/webaccess/iWAHome



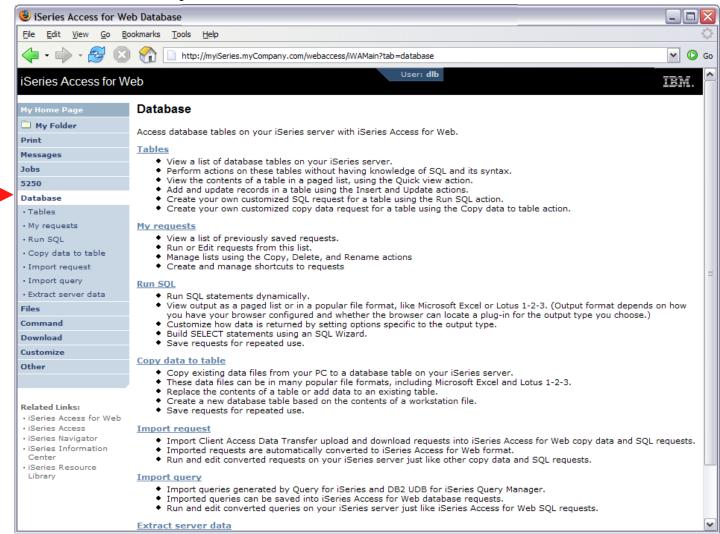


Main Page = http://<myiseries>:<port>/webaccess/iWAMain

() iSeries Access for We	eb						
<u>File E</u> dit <u>V</u> iew <u>G</u> o <u>B</u> o	ookmarks Tools Help						
💠 • 🍌 • 🏂 🗵	Go Go						
iSeries Access for Web IE社							
My Home Page	iSeries Access for Web						
D My Folder	Welcome to iSeries Access for Web, the lightweight, browser-based access to your iSeries server.						
Messages	Pure Java serviet based access						
Jobs 5250	iSeries Access for Web is a set of servlets that run on iSeries servers as extensions to the HTTP server. The servlets provide access to databases, files, print queues, printer output, and messages contained on the iSeries server.						
Database	Industry standard protocol						
Files Command	iSeries Access for Web uses the industry standard HTTP and HTTPS protocols instead of proprietary TCP/IP ports and protocols. Firewall issues are much more manageable as a result.						
Download Customize	Lightweight access						
Other	iSeries Access for Web provides lightweight, and convenient access to iSeries servers from any web browser. Most of the iSeries Access for Web functions have minimal browser requirements and work with almost any browser on any platform.						
R. L. L. L.	Server based						
Related Links: • iSeries Access for Web • iSeries Access • iSeries Navigator	iSeries Access for Web is entirely server based. There is no client code to install and manage. Simply install and configure on the server, and access from any web browser.						
iSeries Information Center	Object level security						
iSeries Resource Library	Access to the iSeries data is based on iSeries object level security. Users and groups can only access the data to which they are authorized.						
	Fully customizable						
	Access to iSeries Access for Web functionality can be restricted for users and groups of users. iSeries Access for Web is fully customizable so a user will only see and access what the administrator has configured for them to use and see.						
	Web components						
	iSeries Access for Web is also a set of web components for web applications. Web applications can link to the iSeries Access for Web servlet URLs and take advantage of the functions that iSeries Access for Web provides.						

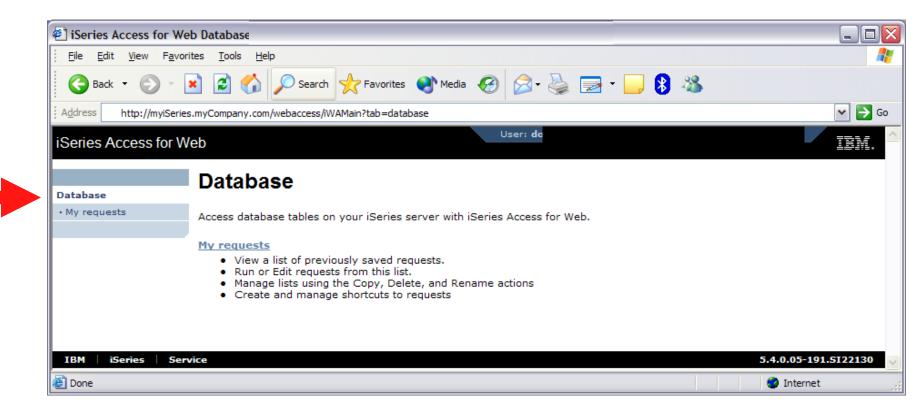


Product functionality





Sample for a user that only performs preset database queries





Controlling Access: Setting policies for users and groups of users



Controlling User Access

My Home Page
📑 My Folder
Print
Messages
Jobs
5250
Database
Files
Command
Download
Customize
Other

- •Customize policies for users and groups to
 - Allow/Deny functions users can access
 - Limit the information users can see
- •Use group profiles to simplify policy management
 - Manage policies for group profiles
 - Add/remove users from groups

•When a function is restricted, access to the servlet is restricted

•You need *SECADM authority to customize profiles



Notes: Controlling Access - How & Whom?

- The Customize function allows administrators to set policies for users and groups of users.
- These policies control...
 - Functions a user can perform.
 - How certain information is presented to the user.
- When a function is restricted...
 - Its navigation bar content is removed.
 - Access to the servlet is restricted.
 - It takes effect immediately.
- Administrators with *SECADM special authority are automatically authorized to administer settings for users and groups of users to which they have authority.
- These administrators can then grant other user profiles permission to administer System i Access for Web functions.



Controlling User Access

- System i Access for Web ships with default policy settings
- •Default allows most functions to be available to all users
- •Use *PUBLIC to set policies for all users
- •Strategy:
 - Grant an administrator profile access to all functions
 - Deny access to all functions to *PUBLIC
 - Then allow specific users/groups access to specific functions

My Home Page	Poli	cies		
🗄 My Folder	1 011			
Print	Profile:	*PUBLIC		
Messages				
Jobs	1.000	1224		Access
5250	Action	Category	Description	0
Database	1	5250	5250 user interface custom settings.	Allowed
Files		Command	Run batch command custom settings.	Allowed
Command	1	Customize	Preferences and policy administration custom settings.	Allowed
Download	1	Database	Database tables, requests, and run SQL custom settings.	Allowed
Customize	1	Database connections	Create and edit database connection definitions.	Allowed
Preferences	1	Download	Download packages custom settings.	Allowed
Policies	1	Files	Integrated file system and file share custom settings.	Allowed
• Settings	1	General	Page layout, language and character set custom settings.	Allowed
• Transfer	/	Jobs	Work with jobs custom settings.	Allowed
configuration	1	Mail	Send mail custom settings.	Allowed
Other		Messages	Display messages, send messages, and message queue custom settings.	Allowed
	1	My Folder	My Folder custom settings.	Allowed
Related Links: • iSeries Access for Web	1	Print	Printer output, printers, printer shares and output queue custom settings.	Allowed
• iSeries Access	1	Sametime	Lotus Sametime custom settings.	Allowed
• iSeries Navigator • iSeries Information Center	1	Other	Change password and other miscellaneous custom settings.	Allowed



Controlling Access - Setting policies (continued)

Policies		_ 🗆 🔀
Eile Edit View Go B	lookmarks Tools Help	0
🔷 · 🌳 · 🔁 🙆	ttp://myiSeries.myCompany.com/webaccess/iWACustomizeList?action=select	✓ Ø Go
iSeries Access for W	Veb	IBM.
My Home Page	Policies	
D My Folder	Specify the profile you want to edit.	
Print		
Messages	Profile: Browse	
Jobs		
5250	Edit Policies	
Database		
Files	Work with the user profile you are authorized to customize.	
Command	Group profiles	
Download	Work with the group profiles you are authorized to customize.	
Customize	Import policies	
Preferences	Import policies from a file into iSeries Access for Web.	
Policies	Export policies	
Settings	Export policies from iSeries Access for Web to a file.	
Transfer configuration	Policies help	
Other	View help for working with policies.	
Related Links:		
• iSeries Access for Web		
 iSeries Access iSeries Navigator 		
iSeries Information		
Center • iSeries Resource		
Library		
IBM iSeries Ser	vice	5.4.0.05-191.SI22130
Tom iseries ser		01-10100-19113122130



Controlling Access - Setting policies (continued)

Policies -						
<u>File E</u> dit <u>V</u> iew <u>G</u> o <u>B</u> o	ookmarks <u>T</u> ools	Help				
💠 • 🍦 • 🛃 😣	😭 🗋 http	://mylSeries.myCompany.com/webaccess/iWACustomizeList?action=	users			
iSeries Access for W	/eb		Jser: dlb			
My Home Page	Policies -	User Profiles				
🛄 My Folder						
Print	Profile filter:	Filter List				
Messages	Filter by:	Profile Opescription				
Jobs	4 4 4 [1]	DOLECTROID NNN O				
5250	14 54 4 [1]	<u>2345678910</u> ► ≫ ► Ω				
Database	Profile	Description	Action 😧	Actions:		
Files	ACBARRON	Alma Carolina Barron Perez - GDL T/L 877-5656		Edit policies		
Command	ACN	Ali Nelson 3-6874				
Download	ADSIERRA	Alma Delia Sierra/Mexico/Contr/IBM@IBMMX		View all policies		
Customize	AGUEDA	Agueda Martinez Hernandez Magro/Mexico/IBM@IBMMX		View group membership		
Preferences	AHANSON	Andrew Hanson 3-5571				
Policies	AHOMIKE	Mike Aho/Rochester/IBM@IBMUS		View group members		
Settings Transfer configuration	ALEJ	Alejandro Bascuas/Rochester/IBM@IBMUS	100	Copy policies		
Other	ALICIAM	Alicia Martinez Cruz/Mexico/Contr/IBM@IBMMX				
other	ALITEST			Reset policies		
ANDREW		Greg Andrews/Rochester/IBM@IBMUS		-		
Related Links:	ANTARES	'Elias Ricardo Castellanos/Mexico/Contr/IBM@IBMMX				
iSeries Access for Web	ARABIC	Gilberto Martinez Cortes/Mexico/Contr/IBM@IBMMX				
iSeries Access iSeries Navigator ATCLARK		Adam Clark, 3-3941				
 iSeries Information Center 	АТОМКО	Ana Tomko Sanchez/Mexico/Contr/IBM@IBMMX	100			
iSeries Resource	BAZEY	John Bazey (3-7108)				
Library	BEACH	Mark Beach/Rochester/IBM@IBMUS				
	BECKYD	Rebecca K Dimock/Boulder/IBM@IBMUS				



Controlling Access - Setting policies (continued)

😉 Edit Policies - Databa	se					_ 0	X
<u>Eile E</u> dit <u>View Go</u> <u>B</u> ookmarks <u>T</u> ools <u>H</u> elp					4		
A Section of the section of					▼ ○ a	Go	
iSeries Access for W	eb			User:	dlb	IBM.	^
My Home Page	Edit Policies - [Database					
D My Folder	Profile: DLB						
Print							≡
Messages	Policy	Derived From 3	Action 😯		Setting		
Jobs	Database access	Shipped default	Use current setting	~	Allow 💌	0	
5250	Database tab	Shipped default	Use current setting	•	Show 💌	0	
Database	Tables	Shipped default	Use current setting	~	Allow 💌	0	
Files	Maximum	Shipped default	Use current setting	~	500	0	
Command	table rows		Use current setting			v	
Download	Table filter	Shipped default	Use current setting	~	*USRLIBL	0	
• Preferences	user	Shipped default	Use current setting	~	Allow 💌	0	
Policies	preference	Chinesed default				0	
Settings Transfer configuration	Insert records into table	Shipped default	Use current setting	~	Allow 💌	0	
Other	Insert record columns	Shipped default	Use current setting	~	Columns	0	
Related Links:	Update records in table	Shipped default	Use current setting	~	Allow 💌	0	
iSeries Access for Web iSeries Access iSeries Navigator	Update record columns	Shipped default	Use current setting	~	Columns	0	
iSeries Information Center iSeries Reserves	Quick view table records	Shipped default	Use current setting	~	Allow 💌	0	
• iSeries Resource Library	Maximum quick view rows	Shipped default	Use current setting	•	1000	0	
	Order	Shipped default	Use current setting		No 💌	2	~



- The following screen shots step through setting the policies so a specific user only has the ability to run preconfigured database queries to generate reports.
- This example shows
 - the "Before" picture of what DB functions a user can perform with no customization of System i Access for Web
 - the specific database policies to set to restrict our user named REPORT_MAN
 - what general policies need to be set to restrict use of non-DB related functions by REPORT_MAN
 - The "After" picture of what REPORT_MAN can do
- When the policy is set, it takes effect immediately.



Example: Simple Database User - Before

Accessing the Database tab of System i Access for Web as user REPORT_MAN

Series Access for We	eb Database							
File Edit View Favor		<u> </u>						
G Back 🔹 🐑 🐇	🔺 😰 🏠 🔎 Search 🤸 Favorites 🜒 Media 🤣 🔗 + چ 📄 🔹 📙 🖇 🖄							
Address http://myiSerie	is.myCompany.com/webaccess/iWAMain?tab=database 🕑 🗗	òo						
iSeries Access for W	Veb User: report_man							
My Home Page	Database							
🗀 My Folder								
Print	Access database tables on your iSeries server with iSeries Access for Web.							
Messages								
Jobs	Tables	≡						
5250	 View a list of database tables on your iSeries server. Perform actions on these tables without having knowledge of SQL and its syntax. 							
Database	 View the contents of a table in a paged list, using the Quick view action. 							
• Tables	 Add and update records in a table using the Insert and Update actions. Create your own customized SQL request for a table using the Run SQL action. 							
 My requests 	 Create your own customized copy data request for a table using the Copy data to table action. 							
• Run SQL	My requests							
 Copy data to table 	View a list of previously saved requests.							
 Import request 	Run or Edit requests from this list.							
Import query	 Manage lists using the Copy, Delete, and Rename actions Create and manage shortcuts to requests 							
• Extract server data								
Files	Run SQL							
Command	 Run SQL statements dynamically. View output as a paged list or in a popular file format, like Microsoft Excel or Lotus 1-2-3. (Output format depends on how 							
Download	you have your browser configured and whether the browser can locate a plug-in for the output type you choose.)							
Customize	 Customize how data is returned by setting options specific to the output type. Build SELECT statements using an SOL Wizard. 							
Other	 Build Select statements using an SQL wizard. Save requests for repeated use. 							
	Copy data to table	~						
i E Done	🕐 Internet							



Example: Simple Database User - Policies

- Policies the starting point for customization of a specific user or group.
- This is a new browser session, where we signed on as an administrator.

Policies		_ 🗆 🛛
<u>Eile Edit View Go B</u> a	pokmarks Tools Help	0
💠 • 🍦 • 🎅 🛽	http://myiSeries.myCompany.com/webaccess/iWACustomizeList	🖌 🚫 Go
iSeries Access for W	Veb	iem. ^
My Home Page	Policies	
🛄 My Folder	Specify the profile you want to edit.	
Print		
Messages	Profile: REPORT_MAN Browse	
Jobs	Edit Policies	
5250		
Database	User profiles	
Files	Work with the user profiles you are authorized to customize.	
Command	Group profiles	
Download	Work with the group profiles you are authorized to customize.	
Preferences	Import policies Import policies from a file into iSeries Access for Web.	=
Policies		
Settings	Export policies Export policies from iSeries Access for Web to a file.	
Transfer configuration		
Other	Policies help View help for working with policies.	
Related Links:		
• iSeries Access for Web		
iSeries Access		
 iSeries Navigator iSeries Information 		
Center		
 iSeries Resource Library 		
Librally.		
IBM iSeries Ser	5.4.0.05-1	91.5122130



Example: Simple Database User - Categories

• Determine which categories need to be restricted/modified.

Policies				
<u>File Edit View Go Bo</u>	ookmarks <u>T</u>	ools <u>H</u> elp		
🔷 • 🔶 - 🎅 🔞	1	http://myiSeries.myCompar	ny.com/webaccess/iWACustomize?profile=REPORT_MAN	
iSeries Access for W	'eb		User: dlb	
My Home Page	Policie	s		
My Folder	Profile: F	REPORT		
Print Messages	Action	Category	Description	Access 0
Jobs	1	5250	5250 user interface custom settings.	Allowed
5250	1	Command	Run batch command custom settings.	Allowed
Database	1	Customize	Preferences and policy administration custom settings.	Allowed
Files	1	Database	Database tables, requests, and run SQL custom settings.	Allowed
Command	1	Database connections	Create and edit database connection definitions.	Allowed
Download		Download	Download packages custom settings.	Allowed
ustomize	1	Files	Integrated file system and file share custom settings.	Allowed
Preferences	1	General	Page layout, language and character set custom settings.	Allowed
Policies	1	Jobs	Work with jobs custom settings.	Allowed
Settings		Mail	Send mail custom settings.	Allowed
Transfer configuration	1	Messages	Display messages, send messages, and message queue custom settings.	Allowed
Jther	1	My Folder	My Folder custom settings.	Allowed
	1	Print	Printer output, printers, printer shares and output queue custom settings.	Allowed
Related Links:		Sametime	Lotus Sametime custom settings.	Allowed
iSeries Access for Web iSeries Access	1	Other	Change password and other miscellaneous custom settings.	Allowed
iSeries Navigator iSeries Information Center iSeries Resource Library	View grou	olicies ent policy settings for al up membership ent group membership f		
	Policies h	ala		



Example: Simple Database User – Other

- Turn off the other non-Database functions. Set top level to Deny.
- Repeat for each category, other than Database

😉 Edit Policies - 5250						_ 0	
<u>File E</u> dit <u>V</u> iew <u>G</u> o <u>B</u> o	okmarks <u>T</u> ools <u>H</u> elp						$\langle \rangle$
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iSeries Access for W	eb		User: dlb			IBM.	^
My Home Page	Edit Policies - 5250						
D My Folder	Profile: REPORT_MAN						=
Messages	Policy	Derived From 😧	Action 🚱		Setting		
Jobs	5250 access	Shipped default	Use current setting	~	Allow 💌	0	
5250	5250 tab	Shipped default	Use current setting	~	Allow	0	
Database	Start non-configured sessions	Shipped default	Use current setting	~	Allow 💙	0	
Files Command	Prompt when starting non-configured sessions	Shipped default	Use current setting	~	Yes 💌	0	
Download	Show server name in title	Shipped default	Use current setting	~	Yes 💌	0	
Customize • Preferences	Show configured session name in title	Shipped default	Use current setting	~	No 💌	0	
Policies	Maximum active sessions	Shipped default	Use current setting	~	No maximum 💌	0	
• Settings	Inactive session timeout	Shipped default	Use current setting	~	24 hours	0	
Transfer configuration Other	Active sessions list columns	Shipped default	Use current setting	~	Columns	0	
Other	Configured session to use for defaults	Shipped default	Use current setting	~	User defaults	▼ ?	
	Save settings as user defaults	Shipped default	Use current setting	~	Allow 💌	0	
Related Links: • iSeries Access for Web • iSeries Access	Load settings from user defaults	Shipped default	Use current setting	~	Allow 💌	0	
 iSeries Navigator iSeries Information 	Load settings from shipped defaults	Shipped default	Use current setting	~	Allow 💌	0	
Center • iSeries Resource	Switch between Web/Traditional views	Shipped default	Use current setting	~	Allow 💌	0	
Library	Edit active session settings	Shipped default	Use current setting	~	Allow 💌	0	
	Bypass signon	Shipped default	Use current setting	~	Allow 💌	0	



- Allow access to Database function.
- Set Tables policy to Deny.

Edit Policies - Databas					
<u>File Edit View Go Bo</u>	okmarks <u>T</u> ools <u>H</u> elp				š.,
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iSeries Access for We	eb			User: dlb	IBM.
My Home Page	Edit Policies - [)atabase			
	Eult Folicies - L	Jalabase			
🔲 My Folder Print	Profile: REPORT_M	AN			
Messages	Policy	Derived From 😧	Action 🚱	Setting	
obs	Database access	Shipped default	Use current setting	Allow 💌	0
5250	Database tab	Shipped default	Use current setting	Show V	0
atabase	Tables	Profile setting	Use current setting		0
iles	Maximum	Shipped default	Use current setting	Allow	0
ommand	table rows		Ose current setting	Deny	•
ownload	Table filter	Shipped default	Use current setting	VSRLIBL *USRLIBL	0
Customize	Table filter is	Shipped default	Use current setting	Allow 💌	0
Preferences	user preference				
· Policies · Settings	Insert	Shipped default	Use current setting	Allow 🗸	0
• Transfer configuration	records into table				
Other	Insert record columns	Shipped default	Use current setting	Columns	0
Related Links:	Update records in table	Shipped default	Use current setting		0
iSeries Access for Web iSeries Access iSeries Navigator	Update record columns	Shipped default	Use current setting	Columns	0
iSeries Information Center	Quick view table records	Shipped default	Use current setting		0
iSeries Resource Library	Maximum quick view rows	Shipped default	Use current setting	1000	0
	Order	Shipped default	Use current setting		0



• Only allow the user the ability to run a saved DB request (Run request)

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	- 📫	• •	F	\otimes	\bigcirc	http://myiSe	ries.myCompany.com/v	vebaccess/iWACustomizeDatab	oase?pr	ofile=REPORT_MAN	~ (S G	0
					Re	equests	Shipped default	Use current setting	~	Allow M	0		^
						Run request	Shipped default	Use current setting	~	Allow 💌	8		
						Copy request	Shipped default	Use current setting	~	Deny 💌	0		
						Delete request	Shipped default	Use current setting	~	Deny 💌	0		
						Rename request	Shipped default	Use current setting	~	Deny M	0		
						Edit request	Shipped default	Use current setting	~	Deny 💌	?		
						Save request	Shipped default	Use current setting	~	Deny 💌	0		
						List request shortcuts	Shipped default	Use current setting	~	Deny 💌	0		
						Create request shortcut	Shipped default	Use current setting	~	Deny M	0		
						Copy request shortcut	Shipped default	Use current setting	~	Deny 💌	0		
						Delete request shortcut	Shipped default	Use current setting	~	Deny м	0		
						Rename request shortcut	Shipped default	Use current setting	~	Deny 💌	0		
						Request list columns	Shipped default	Use current setting	~	Columns	0		
						un SQL quests	Shipped default	Use current setting	~	Deny 💌	0		
					ot	un statements her than Jery	Shipped default	Use current setting	~	Deny 💌	0		
						opy data to ble	Shipped default	Use current setting	~	Deny	0		
						Create new tables	Shipped default	Use current setting	~	Allow 💌	0		~



- Turn off the ability to perform the remaining database functions
- Save the changes

Edit Policies - Databas e Edit <u>V</u> iew <u>G</u> o Boo							
Þ • 🄶 • ಶ 🛞	http://myiSe	ries.myCompany.com/	webaccess/iWACustomizeDatab	ase?pro	ofile=REPORT_MAN	 O) (
	Request list columns	Shipped default	Use current setting	~	Columns	0	
	Run SQL requests	Shipped default	Use current setting	~	Deny 💌	8	
	Run statements other than query	Shipped default	Use current setting	~	Deny 💌	0	
	Copy data to table	Shipped default	Use current setting	~	Deny 💌	0	
	Create new tables	Shipped default	Use current setting	~	Allow 💌	0	
	Append data to tables	Shipped default	Use current setting	•	Allow 💌	0	
	Replace data in tables	Shipped default	Use current setting	~	Allow 💌	0	
	Import request	Shipped default	Use current setting	~	Deny 💌	0	
	Import query	Shipped default	Use current setting	~	Deny 💌	0	
	Extract server object data	Shipped default	Use current setting	~	Deny 💌	0	
	Default connection	Shipped default	Use current setting	~	IBM Toolbox for Java ·		
	Default connection is user preference	Shipped default	Use current setting	~	Deny 💌	0	
	Add IBM Toolbox for Java to connection list	Shipped default	Use current setting	~	Deny 💌	0	
	Save Cancel	Apply					-
	Policies help View help for editing	policies.					
3M iSeries Servi	ice			_		5.4.0.05-191.SI22130	



Example: Simple Database User - Completion

• The user can now only run the DB queries they have been given.

My Requests						
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iSeries Access for W	/eb	User: I	report_man			
Database	My Request	s				
• My requests	≪ ← [1] → ≫ ⊨	Q				
	Request	Description	Action 😧	Shortcut	Created By	Access
	Accounts receivable	Who owes us money	×	Yes	dlb	report_man
	Find employee record		<u>×</u>	Yes	dlb	*PUBLIC
	Low inventory	Items below inventory threshold	×	Yes	dlb	report_man
	Weekly production	Production numbers for the week	×	Yes	dlb	report_man
		Q				
🙆 Done						



User Preferences: Users can set their own Preferences



User Preferences

- The Preferences function allows users to customize System i Access for Web settings to meet their needs.
- By default, all users are allowed to modify their preferences.
- Preferences are a subset of the complete list of available policy settings.
- Users can set the following types of preferences
 - Column inclusion and ordering for functions that display output in columns.
 - Number of rows per page to display on output.
 - Show or hide navigation bar tabs.
 - Preferred language and character set.
 - And more
- Restricting access to Preferences
 - Administrators can deny specific users or groups from accessing their preferences.
 - This is controlled by the "Edit preferences" policy.



Example: User Preferences, Printer output

- The following screen shots step through setting a user preference for Printer output.
- This example shows
 - the default printer output page for user BASIC_USER.
 - what settings the user can modify to change the printer output page output.
 - the printer output page after user BASIC_USER modifies the preferences.
- When the policy is set, it takes effect immediately.



Example: User Preferences, Printer output (continued)

• The printer output display defaults with many columns of information.

🕘 Printer Output							
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Address http://myiSeries	s.myCompany.com/webaccess/WASpool?page=1						
iSeries Access for W	Vser: basic_user						
My Home Page My Folder Print	Printer Output for basic_user						
Printer output							
PDF printer output	File User Creation Pages Job File Name Data Date/Time Per Copy Copies Status Action 🛛 User Job Name Number Number C						
Printers PDF printers	QPDSPAJB 1/30/06 8 1 Ready [] [] [] BASIC_USER QPADEV000G 562152 1 0 2:38 PM						
Internet printers Internet printer shares	QPDSPSTS 1/30/06 1 1 Ready Image: Construction of the second sec						
Printer shares							
Output queues Messages							
Jobs							
5250	Action Details						
Database							
Files	The Printer Output function supports the following actions:						
Command	Work With						
Download	Use the Work With action to hold, release or print the specified spooled file next. There are also links available that will allow						
Customize	the spooled file:						
Other	 Move printer output to another printer Move printer output to another output queue Send printer output to another server (SNDTCPSPLF) Change printer output attributes (CHGSPLFA) 						
Related Links:	• Copy printer output to database file (CPYSPLF)						
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Example: User Preferences, Printer output (continued)

• Click on the Customize tab to work with Preferences.

Preferences				
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Address http://myiSeries	myCompany	, com/webacces		🗸 🏓 Co
; Agaress http://inviseries	sinycompany	.com/webacces	User: basic user	
iSeries Access for W	eb		USER: Dasic_user	IBM. 🗎
My Home Page	Ducto			
D My Folder	Prete	erences		
Print	Action	Catagoni	Description	
Messages	Action	Category 5250	5250 user interface custom settings.	
Jobs	1	Command	Run batch command custom settings.	
5250	/	Customize	Preferences and policy administration custom settings.	
Database	/	Database	Database tables, requests, and run SQL custom settings.	
Files		Download	Download packages custom settings.	
Command		Files		
Download			Integrated file system and file share custom settings.	3
Customize		General	Page layout, language and character set custom settings.	-
Preferences		Jobs	Work with jobs custom settings.	
Other		Mail	Send mail custom settings.	
		Messages	Display messages, send messages, and message queue custom settings.	
	1	My Folder	My Folder custom settings.	
• iSeries Access for Web		Print	Printer output, printers, printer shares and output queue custom settings.	
iSeries Access	Ø	Sametime	Lotus Sametime custom settings.	
iSeries Navigator iSeries Information	1	Other	Change password and other miscellaneous custom settings.	
Center				
iSeries Resource Library	View all p	references		
-			e settings for all categories.	
	Preferenc			
	View help	for working v	with preferences.	~
E Done				🥑 Internet



Example: User Preferences, Printer output (continued)

• AFTER: The printer output display now only has a few columns.

🕘 Printer Output	
<u>File E</u> dit <u>V</u> iew F <u>a</u> vori	ites Tools Help
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Address http://myiSeries	s.myCompany.com/webaccess/iWASpool 🛛 🍡 Go
iSeries Access for W	eb
My Home Page	Printer Output for basic_user
Print	
Printer output PDF printer output Printers	File Name Pages Per Copy Status Action QPDSPAJB 8 Ready Image: Image
PDF printers Internet printers	QPDSPSTS 1 Ready 1 1 2
 Internet printer shares Printer shares 	
Output queues	
Messages Jobs	Action Details
5250 Database	The Printer Output function supports the following actions:
Files Command	Work With Use the Work With action to hold, release or print the specified spooled file next. There are also links available that will
Download	allow you to perform the following actions on the spooled file:
Customize	• Move printer output to another printer
Othe r	 Move printer output to another output queue Send printer output to another server (SNDTCPSPLF) Change printer output attributes (CHGSPLFA) Copy printer output to database file (CPYSPLF)
Related Links: • iSeries Access for Web	• View Use the View action to view the printer output.
🕘 Done	🔮 Internet



Policy Tools for Administrators



Policies and Tools

- Import/Export policy settings
 - Pick a user or group for export

- Transfer configuration data from one user to another
 - Move and copy operations supported for:
 - 5250 sessions and macros
 - Saved commands
 - Database requests
 - My Folder items
 - Policies



Transfer Configuration Data

😉 Transfer Configuratio	ion Data	
<u>File E</u> dit <u>V</u> iew <u>G</u> o <u>B</u> o	ookmarks <u>T</u> ools <u>H</u> elp	$\langle \rangle$
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iSeries Access for W	Veb	iem. ^
My Home Page	Transfer Configuration Data	
D My Folder	Profiles 3	
Print	From profile: Browse	
Messages	To profile: Browse	
Jobs		
5250 Database	Action to Perform	
Files	Opy	
Command	OMove	
Download	Data to Transfer 2	
Customize	Data to Transfer	
Preferences		≡
Policies	5250 macros	
Settings	Commands	
Transfer configuration	Database requests	
Other	Folder items	
	Policies	
Related Links: • iSeries Access for Web • iSeries Access	Transfer Data	
 iSeries Navigator iSeries Information Center iSeries Resource 	<u>Transfer configuration data help</u> View help for transferring configuration data.	
Library		
IBM iSeries Serv	vice 5.4.0.05-191.	SI22130



Page customization



Home Page Customization

- A default home page is displayed when the iWAHome servlet is invoked.
 - http://<mySystem.myCompany.com>/webaccess/iWAHome
 - It's a starting point to highlight functions.
 - It's an example of how to build your own home page or pages that access System i Access for Web functionality.
- The Customize function allows you to replace the default home page.
- Default home page replacement can be done for all users (*PUBLIC), or can be changed for only certain users and/or groups of users.
- Great article example
 - "Build a quick and easy Web site with System i Access for Web" Janet Weber
 - <u>http://www.ibm.com/servers/eserver/iseries/access/pdf/build_website_article.pdf</u>
 - iSeries 400 Experts Journal
 - Updated Oct 2006 in <u>System i News</u> 'Tailor System i Access for Web'



Template file customization

- System i Access for Web has a default look for it functional pages.
 - This look is controlled by a template file and cascading style sheet.
- The template file has sections to specify
 - Header/footer areas of functional pages.
 - Where System i Access for Web content is placed in the page.
- The Customize function allows you to replace the default template file.
- Default template file replacement can be done for all users (*PUBLIC), or can be changed only for certain users and/or groups of users.



Edit Policies: specify home page and template files

🖲 Edit Policies - General [iSeriesD.DFW.IBM.COM] - Mozilla Firefox											
<u>File Edit View Go Bookmarks Tools H</u> elp											
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🐖 BluePages 🕲 OSSC Level 1 page 🖄 Teamsite 🍱 iSeries Access Home 📄 Index of ftp://ftp.so 📄 Page Not Found 🔄 Rochester SiteNews 📄 Think Federal Credit 🛛 >>											
iSeries Access for Web											
My Home Page	Edit Policies - General										
🗋 My Folder	Profile: LLHIRSCH										
Print											
Messages	Policy	Derived From 😧	Action 😧	Setting							
Jobs	Home page HTML file	Shipped default	Use current setting	VQIBM/ProdData/Access/Web2/html/	nomepage.ht Browse						
5250	Template	Shipped default	Use current setting	VQIBM/ProdData/Access/Web2/html/	webaccess.h Browse						
Database	HTML file										
Files	Main page HTML file	Shipped default	Use current setting	/QIBM/ProdData/Access/Web2/html/	overview.htr Browse						
Command	Home page	Shipped default	Use current setting	Allow V							
Download											
Customize	Template	Shipped default	Use current setting	Allow 💌							
Preferences	Navigation	Shipped default	Use current setting	Allow 💌							
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Done											



Special tags

- Within the home page and template .html files, special tags are used.
 - When these tags are encountered by the System i Access for Web code, they are replaced with the appropriate content.
- Special tags...
 - %%CONTENT%%
 - %%include section=file%%
 - %%MENU%%
 - %%STYLESHEET%%
 - %%STYLESHEET_CLASSIC_COLORS%%
 - %%TITLE%%
 - %%SYSTEM%%
 - %%USER%%
 - %%VERSION%%

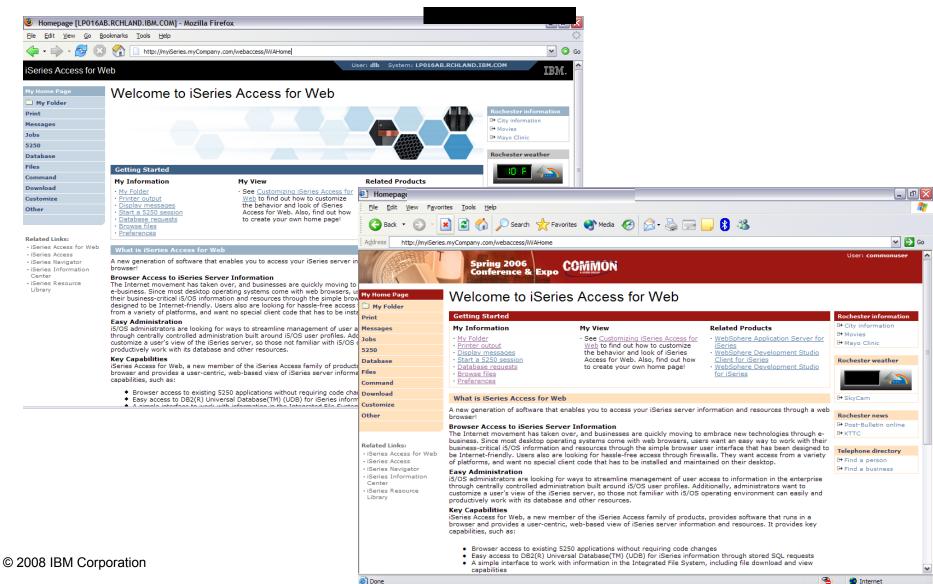
Replaced with...

functional content for the page, separates the header/footer HTML section/fragment to include navigation bar default style sheet default style sheet prior to V5R4 title of the page name of iSeries being accessed i5/OS user profile used to access the server version of System i Access for Web

- For detailed information on these special tags
 - V5R4 System i Access for Web Info Center
 - Connecting to iSeries->System i Access->System i Access for Web->System i Access for Web in a web
 application sever environment->Customize System i Access for Web->Default page content->Home
 page



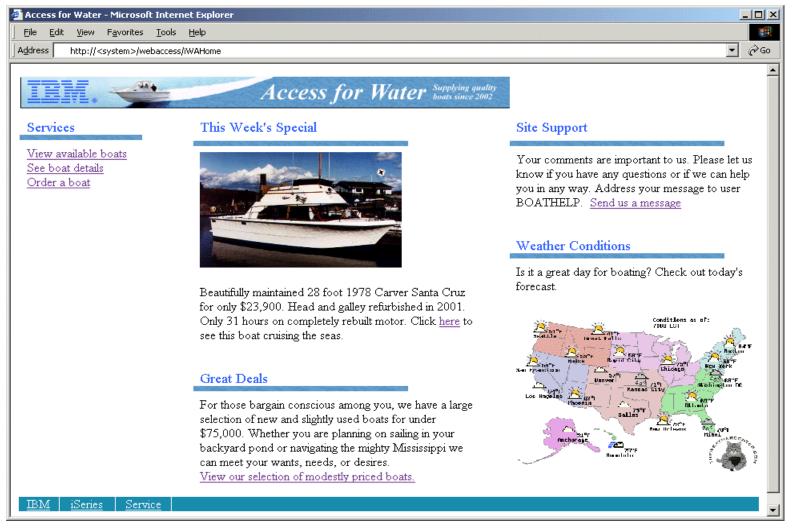
Home Page default – iWAHome servlet http://<system>/webaccess/iWAHome





Home Page customization – iWAHome (another example)

- Custom home page http://iseriesd.demos.ibm.com/webaccess/iWAHome
 - Refer to chart 6 for info on how to access this sample



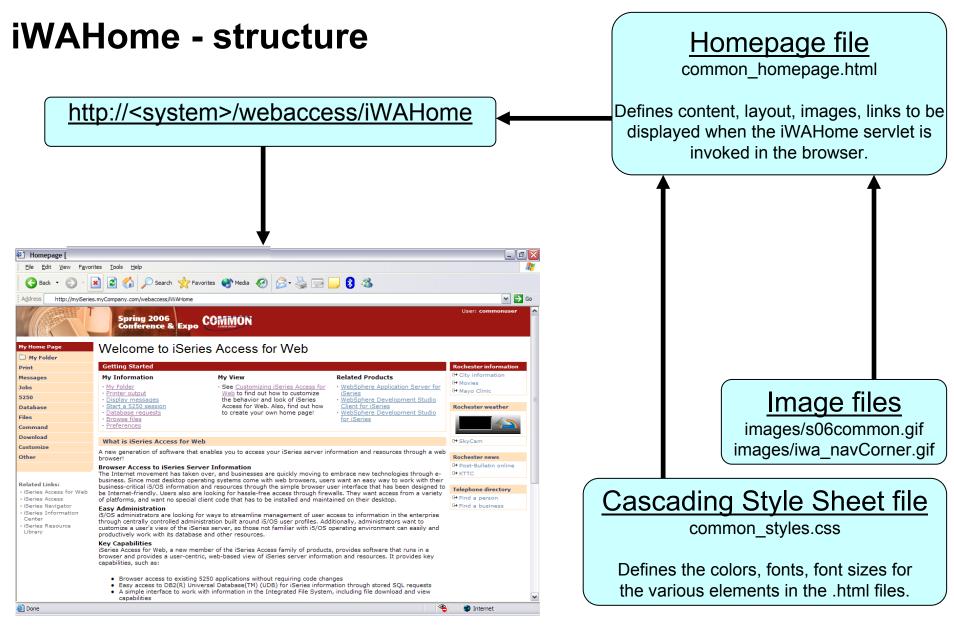


Home Page/Template Customization Example (continued)

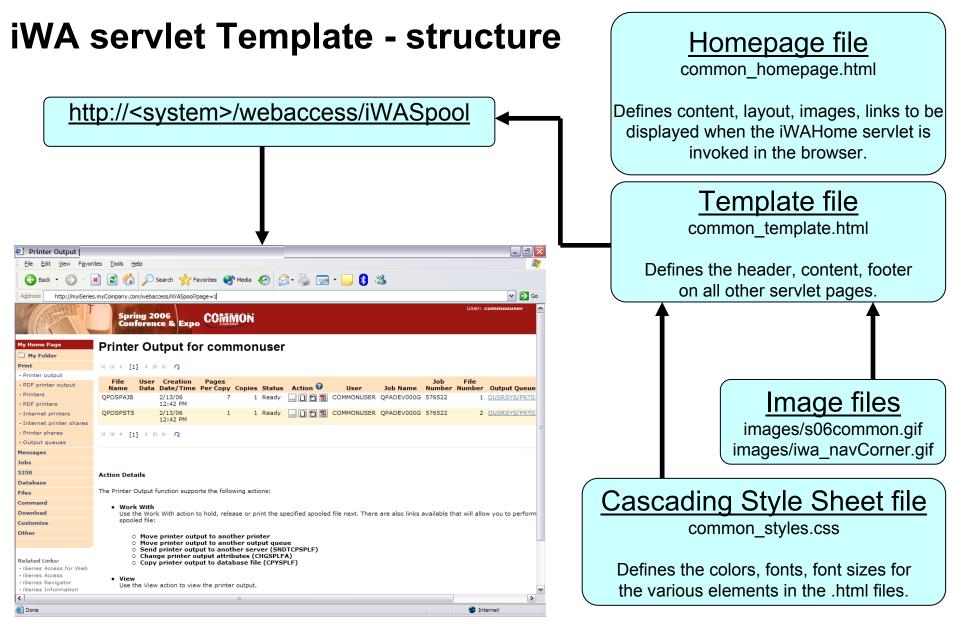
Custom template

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Access for Water Supplying quality boats since 2002										
	Home									
BTYPE	BNAME	BFEET	BYEAR	BCOST	BNT01	BNT02				
С	Poole Boat Co Aluminum	80	1979	1000000	-Located in S. Diego, CA	-Twin Detroit diesels.				
Р	Carver Santa Cruz	28	1978	23900	-Constructed of fiberglass.	-Single Chevy 350 gas engine, 250 hp. Fres water cooled,				
Р	Mako Sportfisher	19	1989	13000	-Located in Anacortes, WA.	-Great fishing boat				
Р	Monk Bridgedeck Cruiser	36	1956	19900	-Built of mahogany, oak, and cedar.	-The 130 hp power plant is a single, Chrysle cyl. diesel				
Р	Monk Flybridge/Sedan	34	1985	55000	-Double planked cedar on oak frames.	-The 165 hp power plant is a 1985 V6 Det diesel.				
Р	Monterey Marine Custom	80	1996	2975000	-Located in Stuart, FL	-Monthly payment.				
S <	Bill Garden Schooner	36	1953		-The hull is 1/8' caravel cedar planked atop 1 1/4" x 1 1/2" oak frames	and the deck is cedar planked with tar sear				
ど Done						🥥 Internet				











For a step-by-step example of how to customize the Home page and Template files:

ftp://ftp.software.ibm.com/as400/products/clientaccess/win32/presentations/2008_common_webcast/iAW_customize_home_page_charts.pdf

- Customizing policies to use different home page and template files
- Adding a different image as header, changing the footer
- Updating the cascading style sheet



NOTES: 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





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