

Deep Dive Into System i Access for Web Session 2:

Configuration and Controlling Access

November 2008

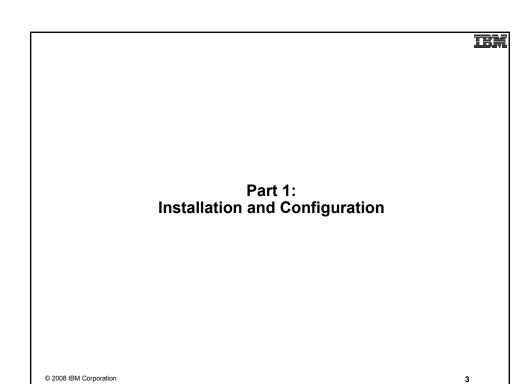
Linda Hirsch
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http://www.ibm.com/systems/i/software/access/web

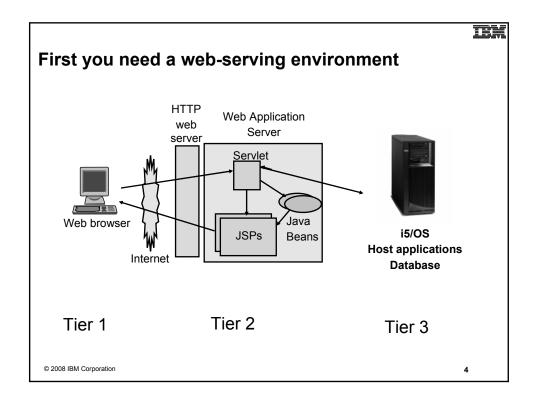
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Agenda

- 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







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.

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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



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.iseri es.doc/info/iseries/ae/welc6topinstalling.html

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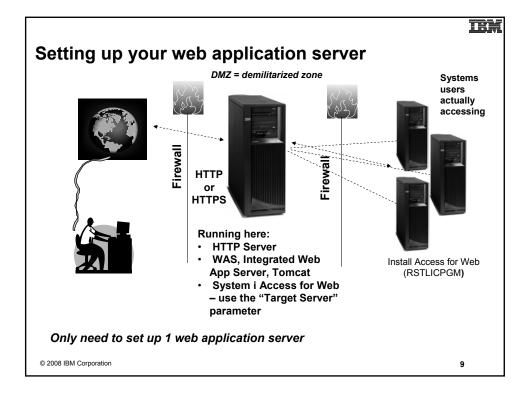
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Performance Considerations...

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



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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



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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		N/C
57xx-SS1	i5/OS QShell Interpreter		N/C
57xx-SS1	If you plan to use Secure Sockets Layer (SSL) i 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 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)		N/C N/C N/C N/C
57xx-JC1	Toolbox for Java		N/C
57xx-TC1	TCP/IP Connectivity Utilities for iSeries		N/C

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

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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 is not required to view PDF output)	Base	\$

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

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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
 Portal V5.1.0.1
 Portal V5.1.0.1
 Portal V6.0
 Morkplace V2.5
 Workplace V2.5
 ASF Tomcat
 http://publib.boulder.ibm.com/infocenter/wseic/v2r5/index.jsp
 http://publib.boulder.ibm.com/infocenter/wseic/v2r5/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/

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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

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

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System i Access for Web - Web Serving Environments Supported



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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



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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
 - OSH
 - · cd /QIBM/ProdData/Access/Web2/install
 - cfgaccweb2 –appsvrtype *INTAPPSVR
- 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!

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To use System i Access for Web in this environment

<u>User-created instance and HTTP web server</u> (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
- 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)
- 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
 - OSH
 - cd /QIBM/ProdData/Access/Web2/install
 - cfgaccweb2 –appsvrtype *INTAPPSVR –instance <instance_name>
- 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!



Integrated Web application server

Questions regarding the integrated Web application server option?



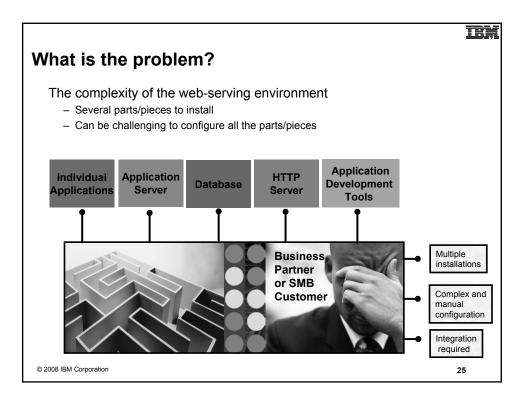
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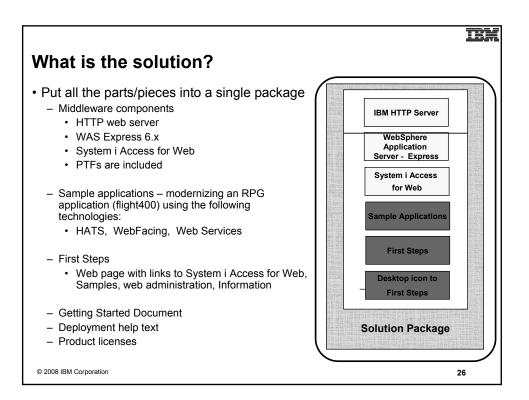
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2. Web Enable Feature – Express Runtime Environment



- 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

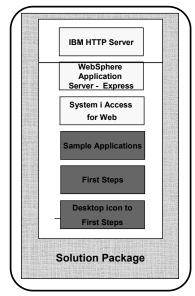






What is the solution? (continued)

- · 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



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IEM

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

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Installation/Setup Process

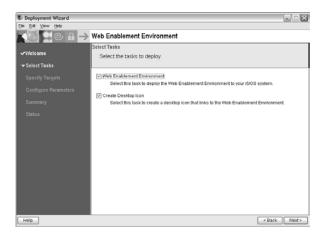
- Read the ReadMe packaged with the product
 - Verify requirements for Windows workstation and i5/OS system
- From a Windows workstation, launch the deployment wizard
 - Provide credentials
 - Specify i5/OS system to deploy
 - Name the HTTP web server, WebSphere profile/application server, ports
 - Optionally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

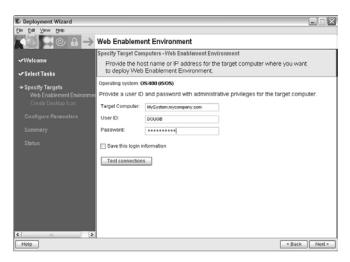


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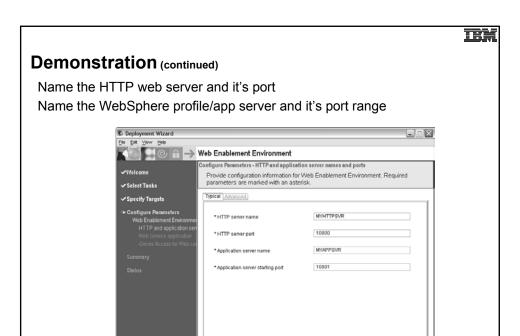
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Demonstration (continued)

Name of i5/OS system to deploy the environment to



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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

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Formula for successful setup and configuration

You need to do the following in this order:

- 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

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Decide what web application server environment to run





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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



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

Installing System i Access for Web

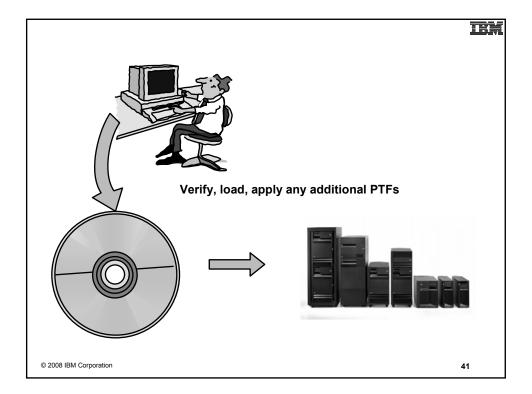
- Use the RSTLICPGM command to restore (install) the licensed program
- RSTLICPGM LICPGM(5722XH2) DEV(OPT01) OPTION(*BASE) V5R4 version
- RSTLICPGM LICPGM(5761XH2) DEV(OPT01) OPTION(*BASE) V6R1 version

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...

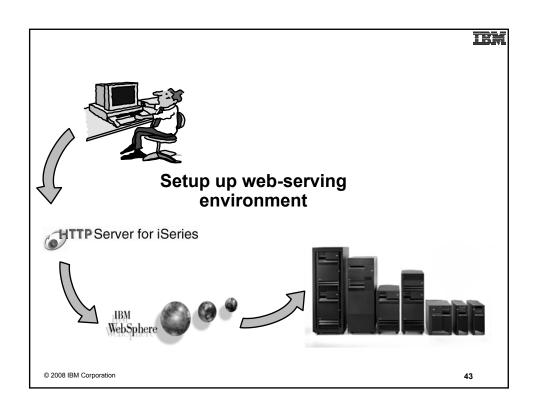
- Make any changes to HTTP web server configurations
- Make any changes to web application server configurations
- Enable use of System i Access for Web

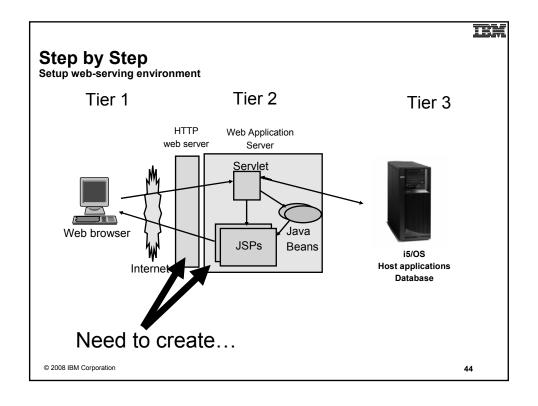


Hi,

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







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

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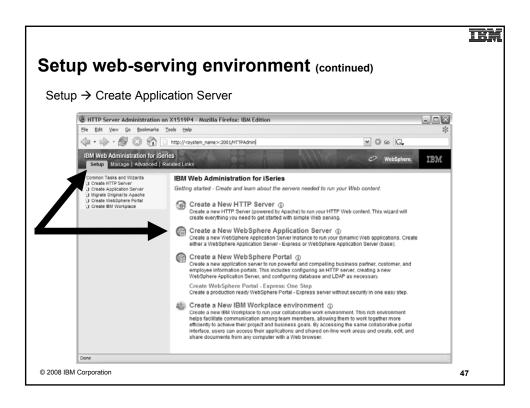


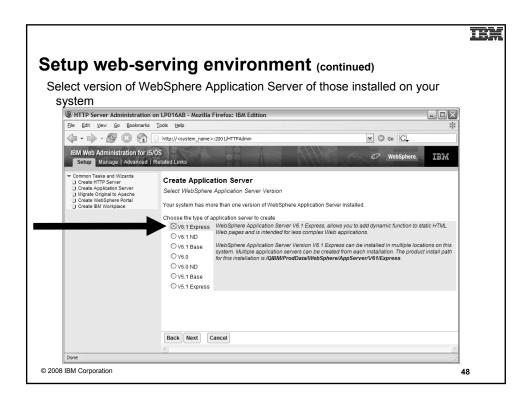
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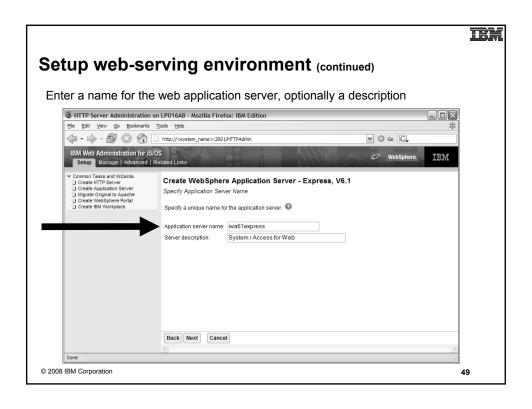
Setup web-serving environment

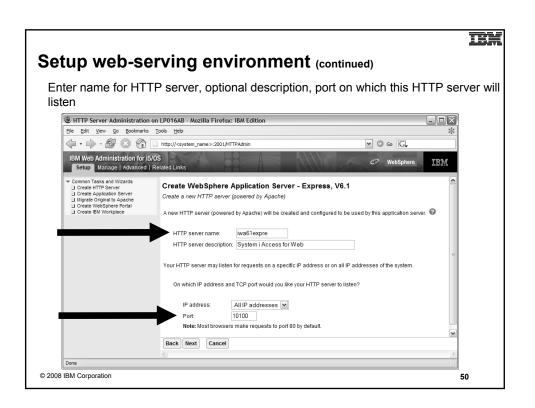
Use IBM Web Administration for i5/OS

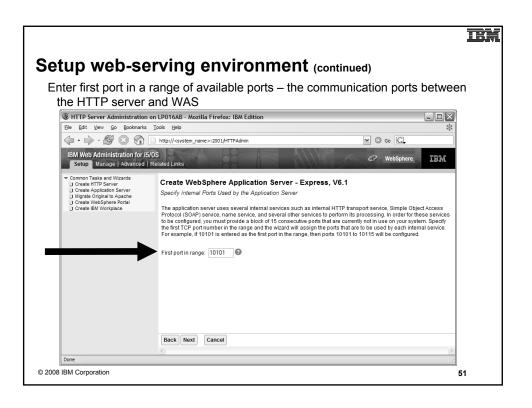
- Easy to use wizard that prompts for required information and does all the work
- STRTCPSVR SERVER(*HTTP) HTTPSVR(*ADMIN)
- http://<system_name>:2001/HTTPAdmin

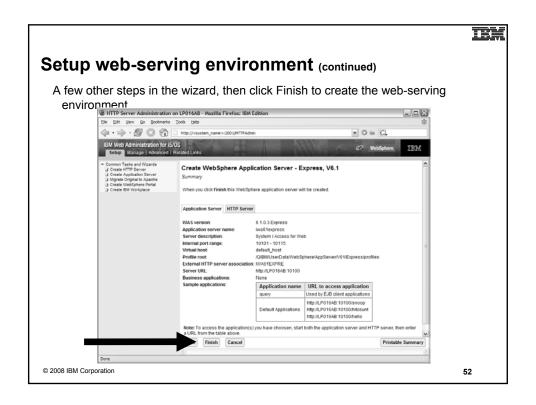


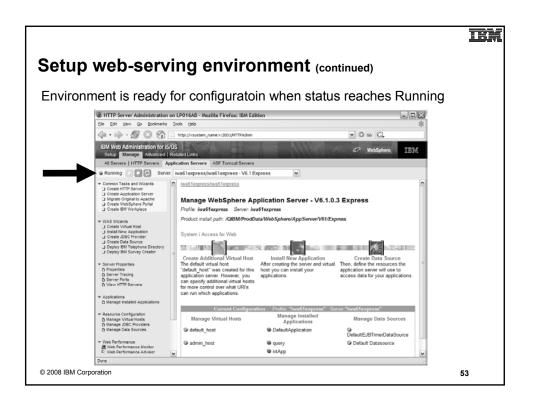


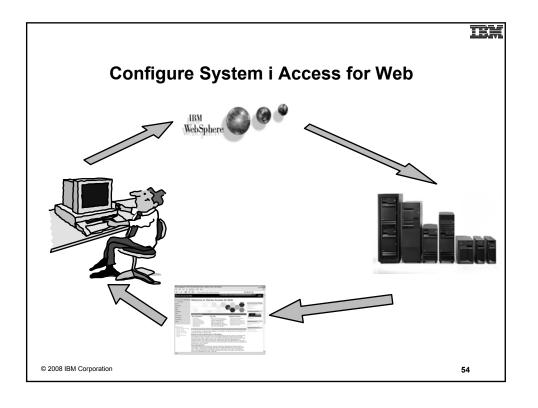














Configure System i Access for Web

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

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Hi,

Configure System i Access for Web (continued)

Use available documentation →

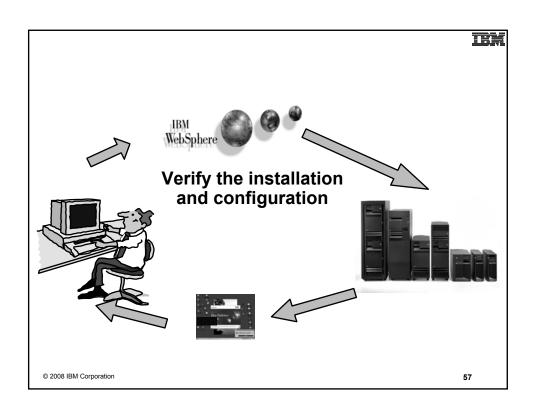
- System i Access for Web Information Center
 - Place to start to get System i Access for Web installed and running

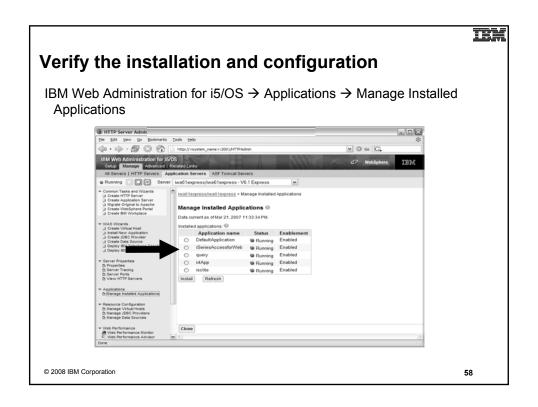
When the commands are run →

- 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







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>/<wa sprf>/<appsvr>/logs/*</appsvr></wa </appsvrtype>

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

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Part 2: Runtime Considerations



Controlling Access

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

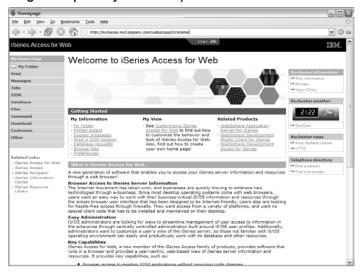
- Administrators can use the Customize function to replace the default System i Access for Web home page with their own home page.
- Administrators can use the Customize function to replace the default template that defines the layout, look, and feel of System i Access for Web pages
- Style sheets The look of the System i Access for Web page content is now controlled by external style sheets.

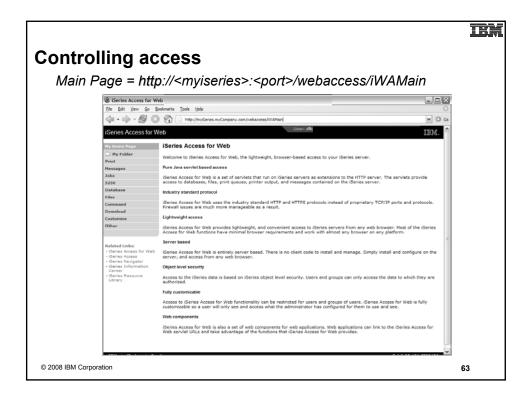
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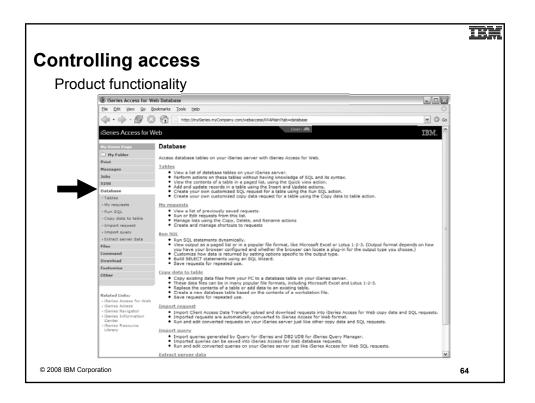


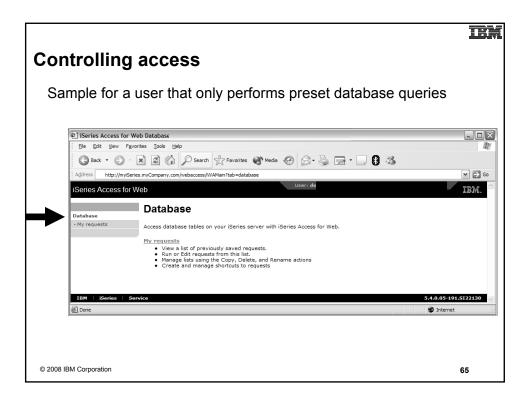
Controlling access

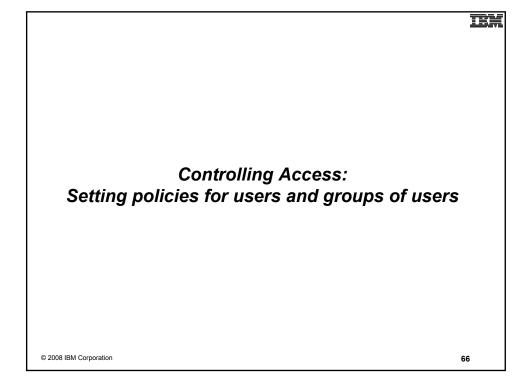
Home Page = http://<myiseries>:<port>/webaccess/iWAHome













Controlling User Access



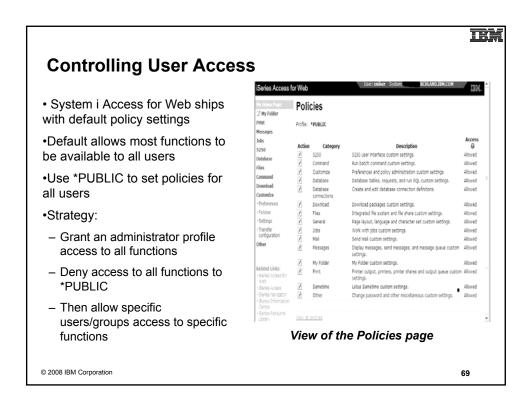
- Customize policies for users and groups to
 - Allow/Deny functions users can access
 - Limit the information users can see
- •Use group profiles to simplify policy management
 - Manage policies for group profiles
 - Add/remove users from groups
- •When a function is restricted, access to the servlet is restricted
- You need *SECADM authority to customize profiles

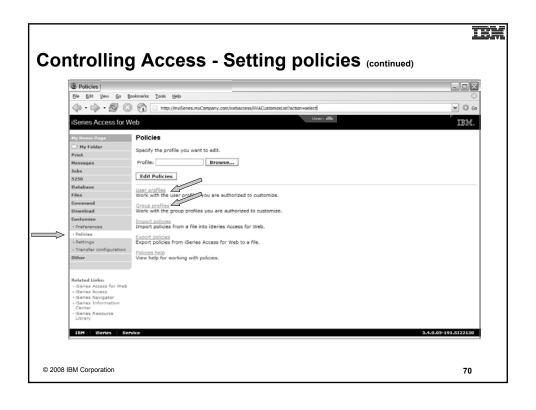
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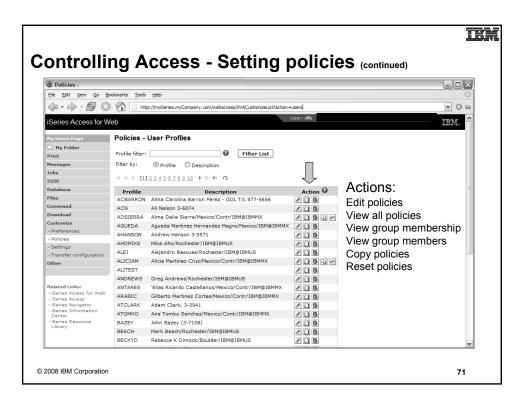
67

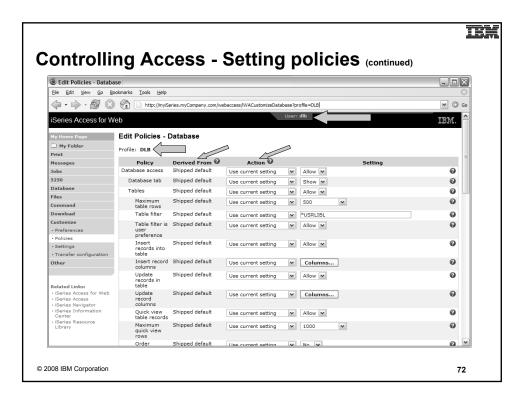
Notes: Controlling Access - How & Whom?

- 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.







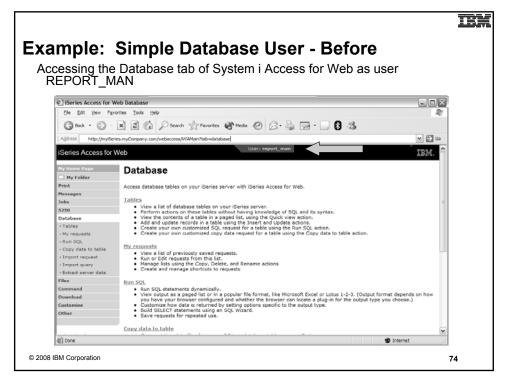


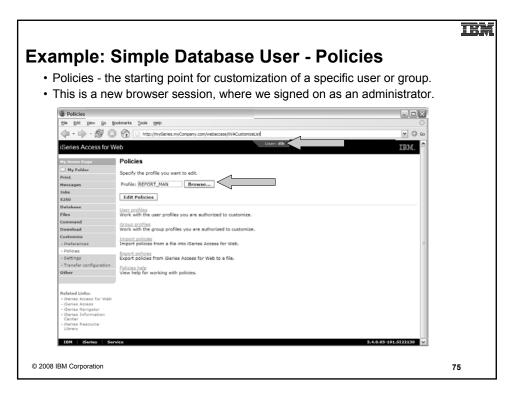


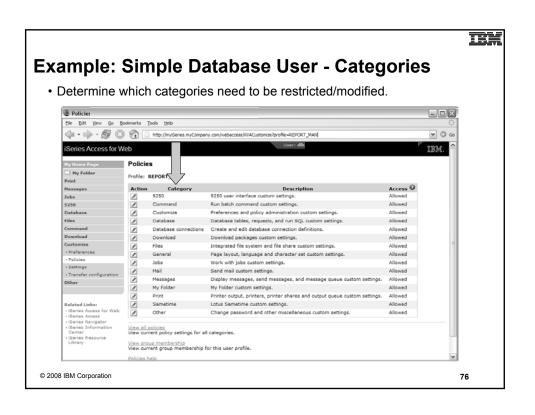
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Example: Simple Database User

- 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.



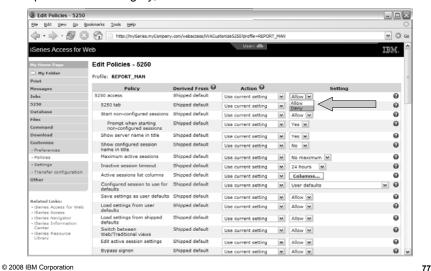






Example: Simple Database User - Other

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



ш **Example: Simple Database User** · Allow access to Database function. Set Tables policy to Deny. Edit Policies - Database File Edit Yiew Go Bookmarks Tools Help 🔷 • 🖟 • 💋 🙆 🖒 http://mySeries.myCompany.com/webaccess/IWACustomizeDatabase?retl.RL="NONESprofile=REPORT_MAN ₩ (0 G IBM. Edit Policies - Database Profile: REPORT MAN Policy Derived From
Action

Database access Shipped default Use current setting Allow is Policy Derived xxxxxx

Database access Shipped default

Database at Shipped default

Database tab Shipped default

Use current setting

Show W

Tables

Profile setting Use current setting

Allow Deep'

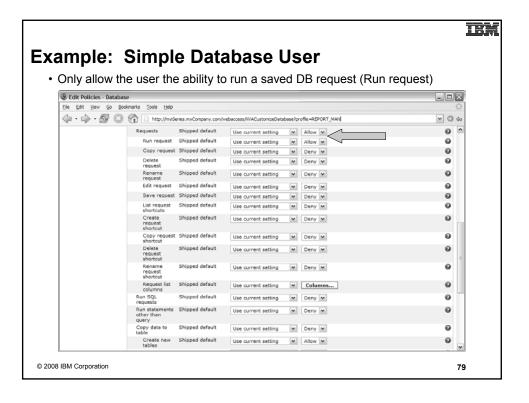
Deep'

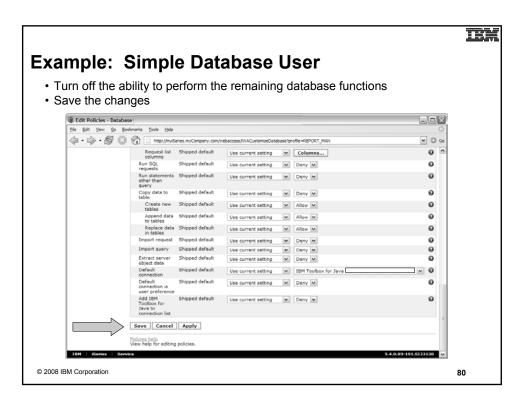
Deep' O Maximum Shipped default Use current setting Allow Deny Table filter Shipped default Use current setting V USRLIER.

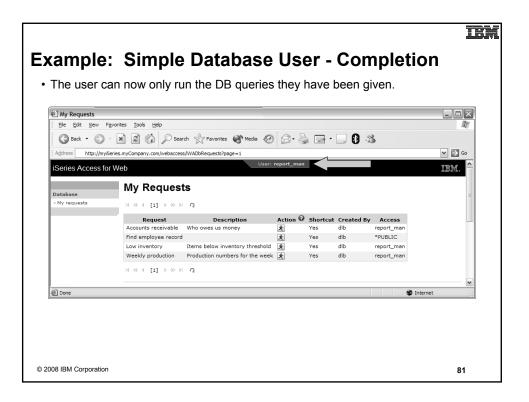
Preferences user preference preference Instances Indext Use current setting V Allow V ø 0 ด records into table

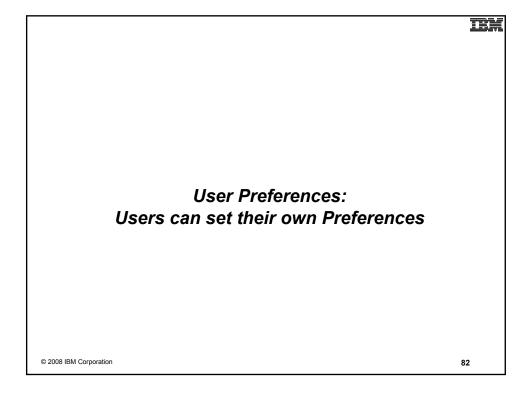
Insert record Shipped default columns

Columns Update Shipped default Use current setting M Allow M table ഒ Update Shipped default Use current setting Columns... Quick view Shipped default Use current setting 💌 Allow 💌 Maximum Shipped default Use current setting Maximum Quick view Pows 0 Shipped default | Use current setting © 2008 IBM Corporation 78











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.

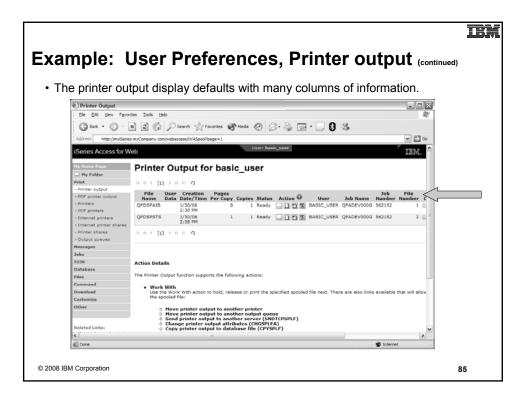
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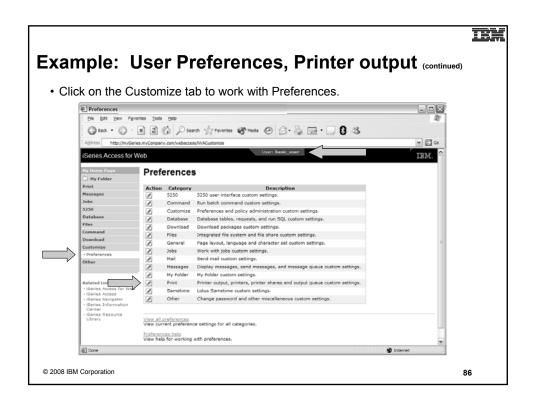


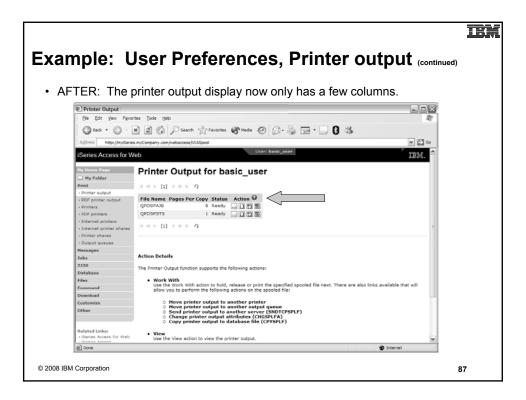
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Example: User Preferences, Printer output

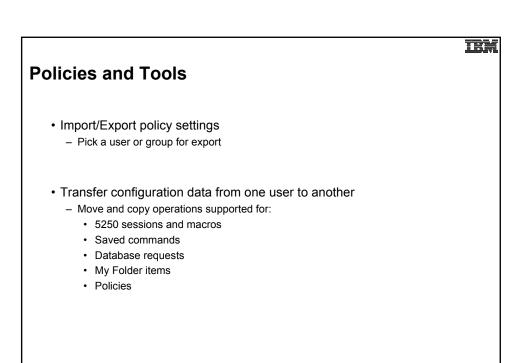
- The following screen shots step through setting a user preference for Printer output.
- · This example shows
 - the default printer output page for user BASIC_USER.
 - what settings the user can modify to change the printer output page output.
 - the printer output page after user BASIC_USER modifies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



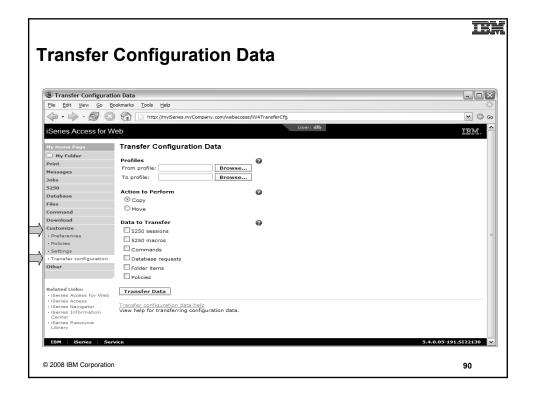








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Page customization

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TRY

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Home Page Customization

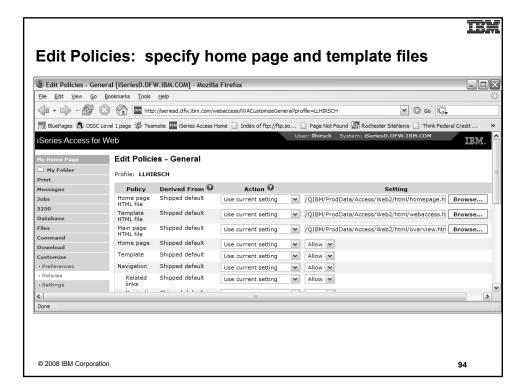
- A default home page is displayed when the iWAHome servlet is invoked.
 - http://<mySystem.myCompany.com>/webaccess/iWAHome
 - It's a starting point to highlight functions.
 - It's an example of how to build your own home page or pages that access System i Access for Web functionality.
- The Customize 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
 - http://www.ibm.com/servers/eserver/iseries/access/pdf/build_website_article.pdf
 - iSeries 400 Experts Journal
 - Updated Oct 2006 in System i News 'Tailor System i Access for Web'



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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.





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

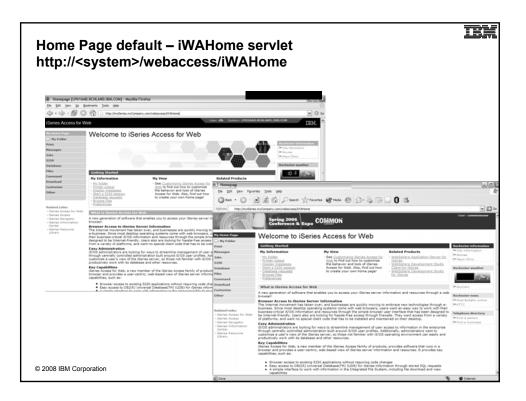
name of iSeries being accessed

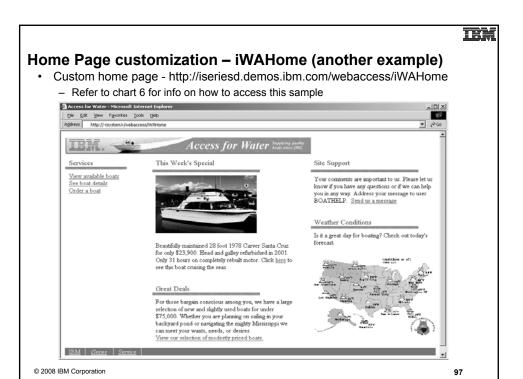
i5/OS user profile used to access the server

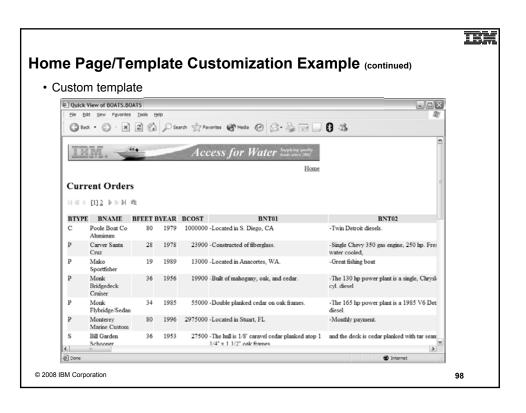
version of System i Access for Web

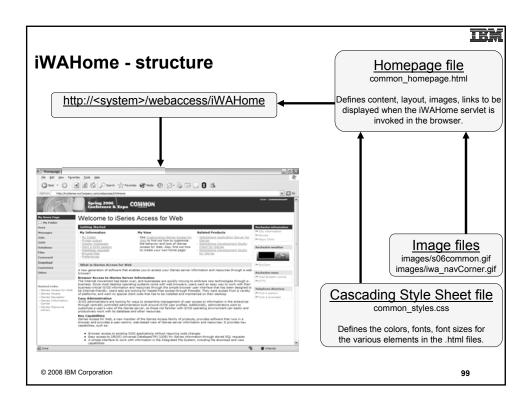
For detailed information on these special tags

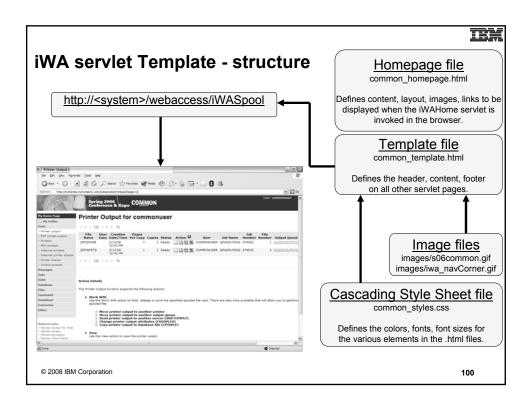
- V5R4 System i Access for Web Info Center
 - Connecting to iSeries->System i Access->System i Access for Web->System i Access for Web in a web
 application sever environment->Customize System i Access for Web->Default page content->Home
 page













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

ttp://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

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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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