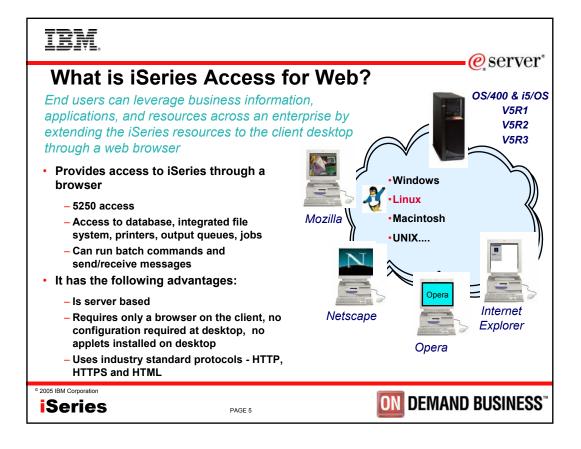
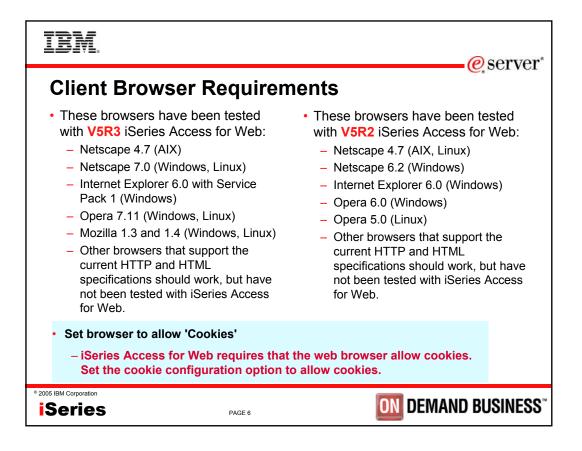


eries Access Family - I	Packaging
V5R3 5722-XW1 iSeries Access Family	V5R2 5722-XW1 iSeries Access Family
<ul> <li>iSeries Access for Windows, 5722-XE1, V5R3</li> </ul>	<ul> <li>iSeries Access for Windows, 5722-XE1, V5R2</li> </ul>
iSeries Access for Web, 5722-XH2, V5R3	iSeries Access for Web, 5722-XH2, V5R2
	<ul> <li>WebSphere Host Publisher, 5724-B81, V4.0, 5724-B81, V4.01</li> </ul>
HATS Limited Edition V5.0, 5724-F97-01	HATS Limited Edition V4.0 5724-D34-01
iSeries Access for Linux, 5722-XL1, V5R3	
	V5R2 customers not wanting to upgrade to i5/OS V5R3 but want the new V5R3 iSeries Access Family clients can order no-charge Feature No. 2647 of Product No. 5722-XW1

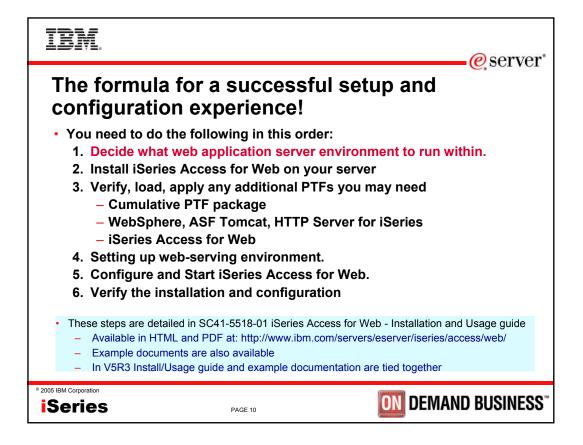


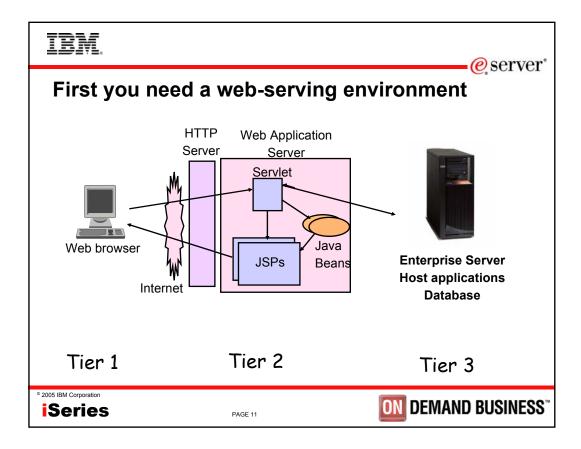


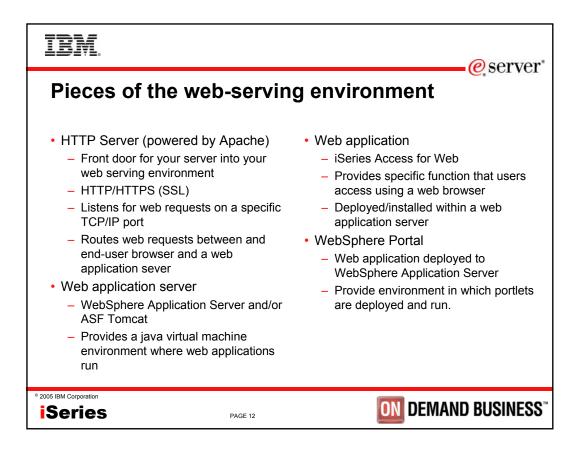
IBM.			eerver
iSeries	server Software Requirement	S	<b>e</b> , ~ or , or
Product Number	Product Name	Option	\$
5722-SSI	OS/400 V5R1, V5R2, or i5/OS V5R3	Base	w/HW
5722-SSI	OS/400 - Extended Base Directory Support	3	N/C
5722-SSI	OS/400 - AFP Compatibility Fonts	8	N/C
5722-SSI	OS/400 - Host Servers	12	N/C
5722-SSI	Operating System/400 Qshell Interpreter	30	N/C
5722-SS1	• If you plan to use Secure Sockets Layer (SSL): OS/400	34	N/C
5722-AC3	<ul> <li>Digital Certificate Manager</li> <li>Cryptographic Access Provider (128-bit)</li> </ul>		N/C
5722-DG1	IBM HTTP Server for iSeries	Base	N/C
5722-JVI	Developer Kit for Java	Base	N/C
	Developer Kit for Java Version 1.2	3	N/C
	Developer Kit for Java Version 1.3	5	N/C
	Developer Kit for Java Version 1.4	6	N/C
	(Check WebSphere doc for required version)		
5722-JC1	Toolbox for Java	Base	N/C
5722-TCI	TCP/IP Connectivity Utilities for iSeries	Base	N/C
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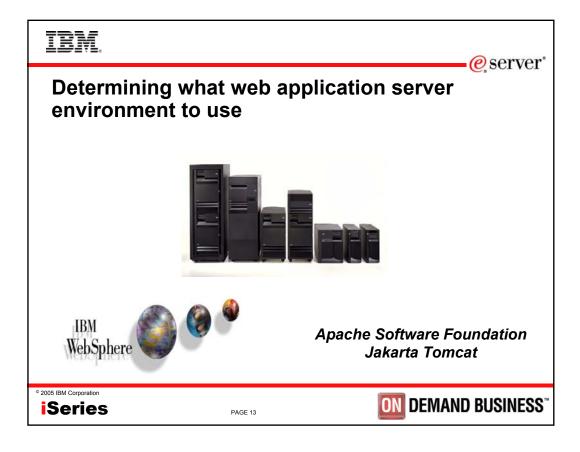
Product Number	Product Name	Option	\$
5722-XWI	iSeries Access Family	Base	\$
5722-XH2	iSeries Access for Web •Ships with 5722-XWI iSeries Access Family •VSR2 iSeries Access for Web runs on OS/400 V5R1 and V5R2 •V5R3 iSeries Access for Web runs on OS/400 V5R2 and i5/OS V5R3	Base	part of XWI
5722-IP1	IBM Info Print Server (optional enables best PDF output)	Base	\$

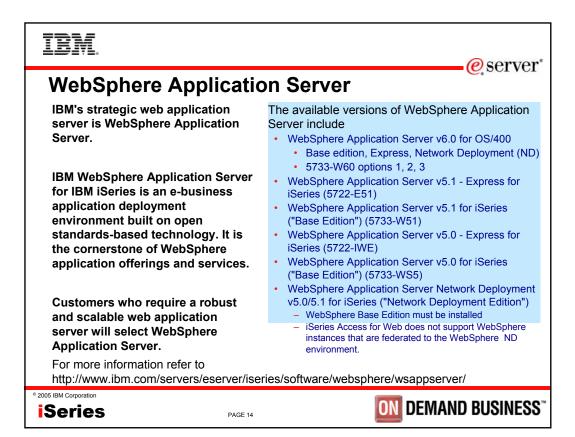
		Option	\$	
5733-W60 5722-E5 I 5733-W5 I 5722-IWE 5733-WS5	<ul> <li>One, or more, of the following web servers</li> <li>WebSphere Application Server V6.0 for OS/400</li> <li>WebSphere Application Server V5.1 - Express for iSeries</li> <li>WebSphere Application Server V5.1 (Base and ND)</li> <li>WebSphere Application Server V5.0 - Express for iSeries</li> <li>WebSphere Application Server V5.0 (Base and ND)</li> </ul>	See documentation	\$ \$ \$ \$	
5733-WA4 5733-WS4	<ul> <li>WebSphere Application Server V4.0 Advanced Edition</li> <li>WebSphere Application Server V4.0 Advanced Single Server Edition Note: WAS 4.0 EOS is 4/2005</li> </ul>		\$	
5722-DG1 *	<ul> <li>Apache Software Foundation Tomcat</li> <li>WebSphere Portal for iSeries (Express and Express Plus)</li> </ul>		N/C \$	
<ul> <li>Refer to the documentation for the individual web servers for additional software requirements that may not be listed above.</li> </ul>				

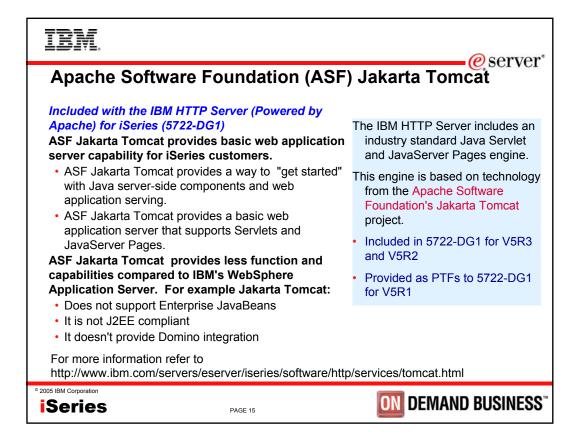


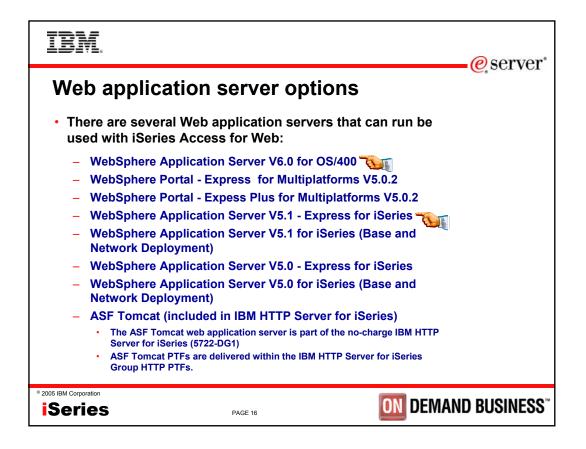


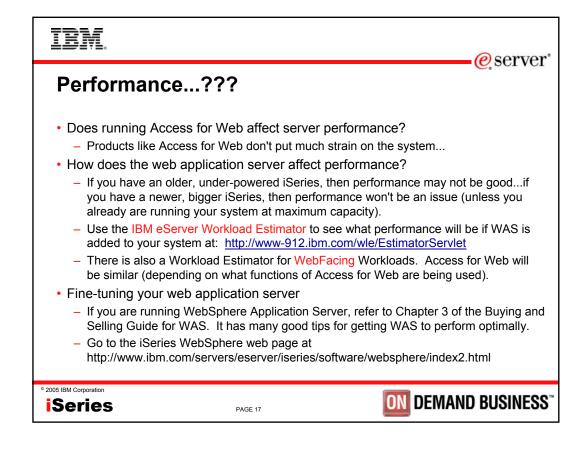




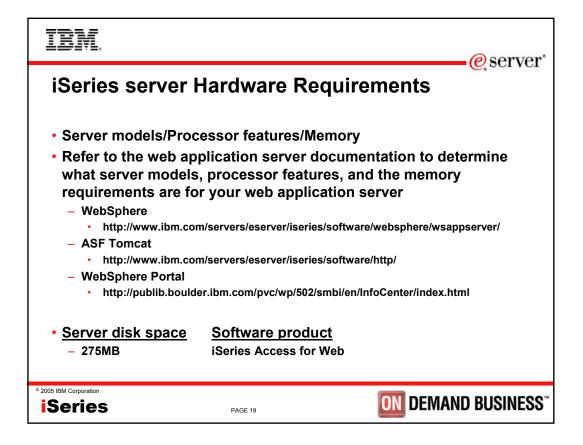


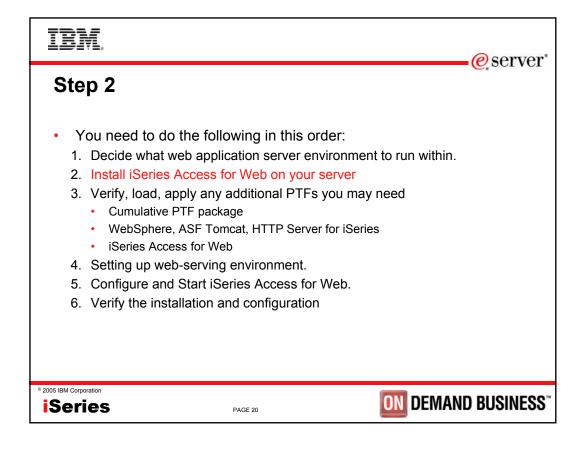


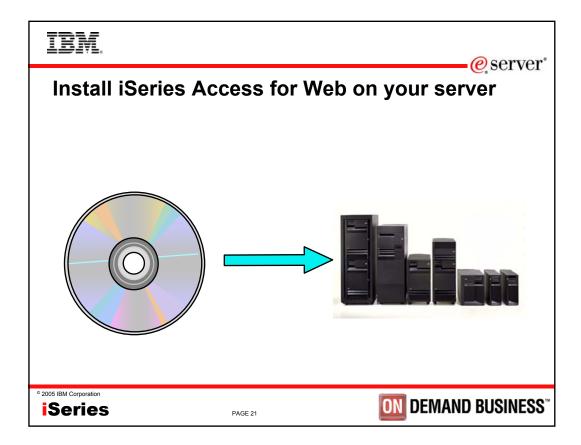


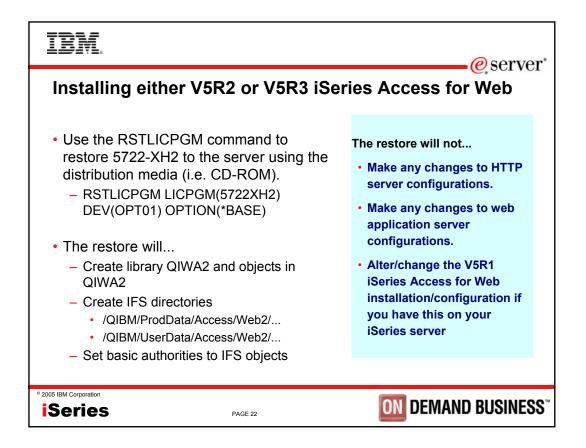


E IBM eServer Workload		Servlet
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	Home   Products & services   Support & downloads   My av	ccount
IBM Workload Estimator		Version: 2004.2.fbx.1 21-May-04
File	IBM@server Workload Estim	nator www-912
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	Add Workloads to This Solution: (help)	Expert View
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	Solution: MySolution	Add Workload
	Add:	
	Domino Workload	
	Existing Workload	
	File Serving (Linux) Workload	
	Generic Workload	
	HATS Workload	
	Network Infrastructure (Linux) Workload	
	Linux DB2 UDB Workload	
	Traditional Workload	
	Web Serving Workload	
	Web Serving (Linux) Workload	
	WebSphere Workload	
	WebSphere (Linux) Workload	
	WebSphere Commerce Workload	
	WebSphere Portal Server Workload	
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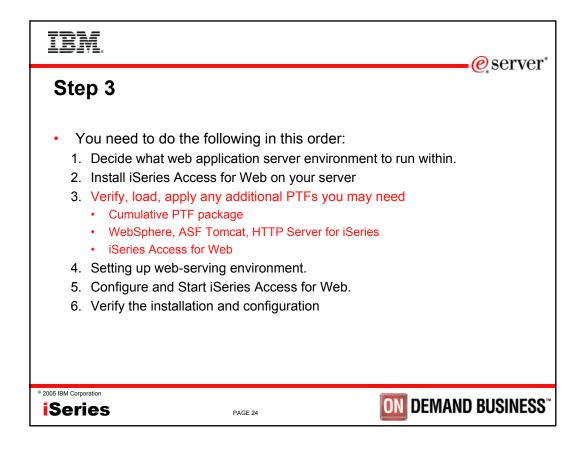


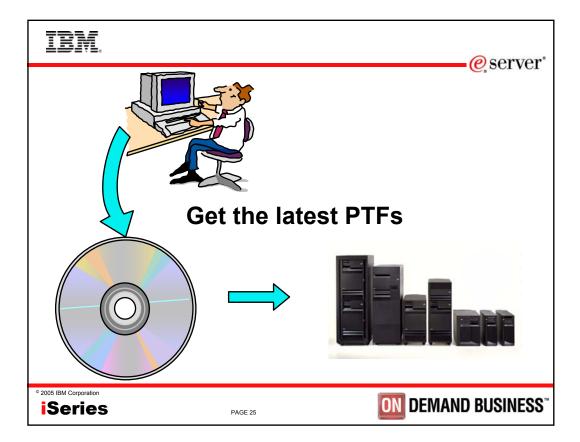




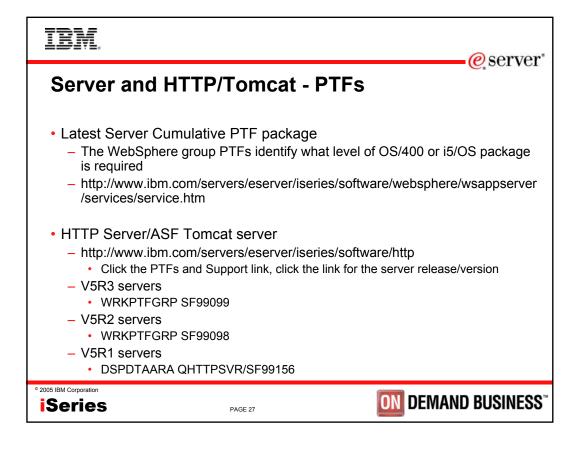


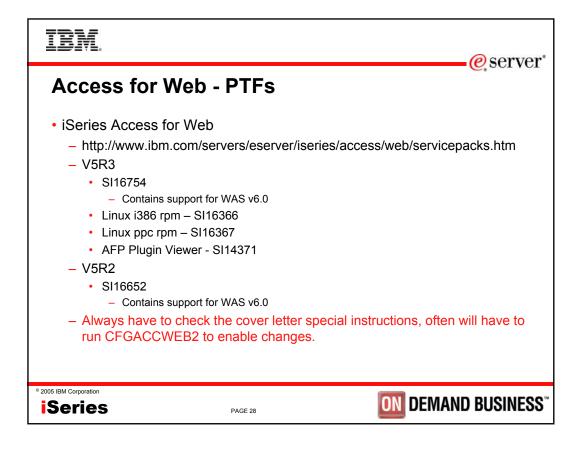


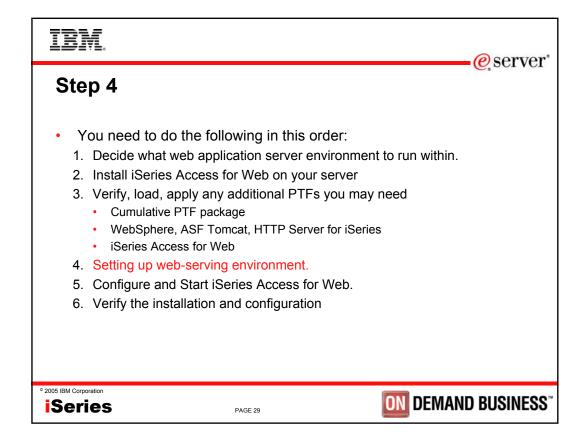


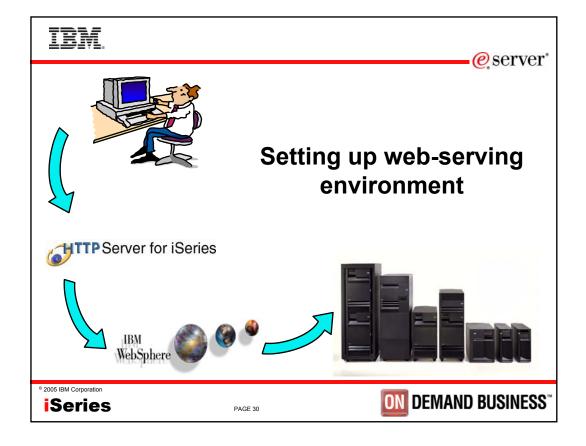


IBM.		e server		
WebSphere Application Server PTFs http://www.ibm.com/servers/eserver/iseries/software/websphere/wsappserver/ • Click the PTFs link, click the link for server release/WebSphere version				
<ul> <li>Latest server Cumulative PTF package</li> <li>The WebSphere group PTFs identify what level of OS/400 or i5/OS cumulative PTF package is required.</li> <li>Verify your server has the latest available PTFs</li> <li>Each web application server version has a group PTF.</li> <li>The group PTFs include PTFs for WebSphere as well as other group PTFs (database, HTTP server, Java, etc.).</li> </ul>	<ul> <li>V5R3 servers</li> <li>-WRKPTFGRP SF99301</li> <li>-WRKPTFGRP SF99275</li> <li>-WRKPTFGRP SF99276</li> <li>-WRKPTFGRP SF99286</li> <li>-WRKPTFGRP SF99272</li> <li>-WRKPTFGRP SF99272</li> <li>-WRKPTFGRP SF99289</li> <li>-WRKPTFGRP SF99290</li> <li>V5R2 servers</li> <li>-WRKPTFGRP SF99274</li> <li>-WRKPTFGRP SF99276</li> <li>-DSPDTAARA QEJBAS51/SF99273</li> <li>-DSPDTAARA QEJBAS51/SF99270</li> <li>-DSPDTAARA QEJBASD/4/SF99241</li> <li>-DSPDTAARA QEJBASD/4/SF99241</li> <li>-DSPDTAARA QEJBASD/4/SF99241</li> </ul>	<ul> <li>v6.0 for OS/400</li> <li>v5.1 Express for iSeries</li> <li>v5.1 Base Edition</li> <li>v5.0 Express for iSeries</li> <li>v5.0 Base Edition</li> <li>v5.0 Retwork Deployment Edition</li> <li>v4.0 Advanced Edition</li> <li>v4.0 Advanced Edition</li> <li>v4.0 Advanced Single Server Edition</li> <li>v6.0 for OS/400</li> <li>v5.1 Express for iSeries</li> <li>v5.1 Base Edition</li> <li>v5.1 Network Deployment Edition</li> <li>v5.0 Network Deployment Edition</li> <li>v5.1 Network Deployment Edition</li> <li>v5.1 Network Deployment Edition</li> <li>v5.1 Network Deployment Edition</li> <li>v5.0 Network Deployment Edition</li> <li>v4.0 Advanced Edition</li> <li>v4.0 Advanced Edition</li> <li>v5.1 Express for iSeries</li> <li>v5.1 Base Edition</li> <li>v5.1 Rese Edition</li> <li>v5.1 Network Deployment Edition</li> <li>v5.0 Base Edition</li> <li>v5.0 Network Deployment Edition</li> <li>v4.0 Advanced Edition</li> <li>v4.0 Advanced Edition</li> <li>v5.0 Base Edition</li> <li>v5.0 Network Deployment Edition</li> <li>v4.0 Advanced Edition</li> <li>v4.0 Advanced Edition</li> <li>v5.0 Network Deployment Edition</li> <li>v4.0 Advanced Edition</li> <li>v5.0 Network Deployment Edition</li> <li>v4.0 Advanced Edition</li> <li>v4.0 Advanced Edition</li> <li>v5.0 Network Deployment Edition</li> <li>v4.0 Advanced Edition</li> <li>v5.0 Advanced Edition</li> <li>v4.0 Advanced Edition</li> <li>v4.0 Advanced Edition</li> <li>v4.0 Advanced Edition</li> </ul>		
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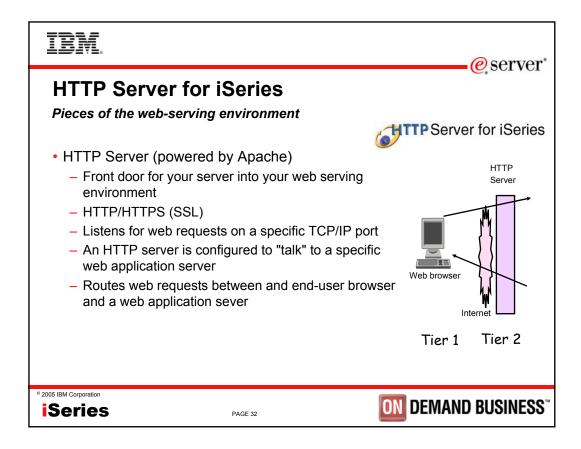




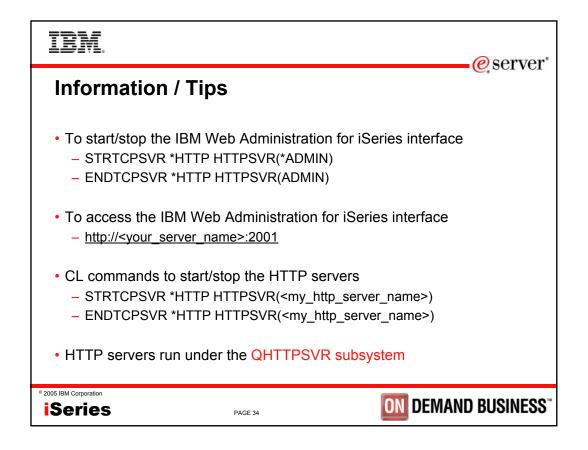


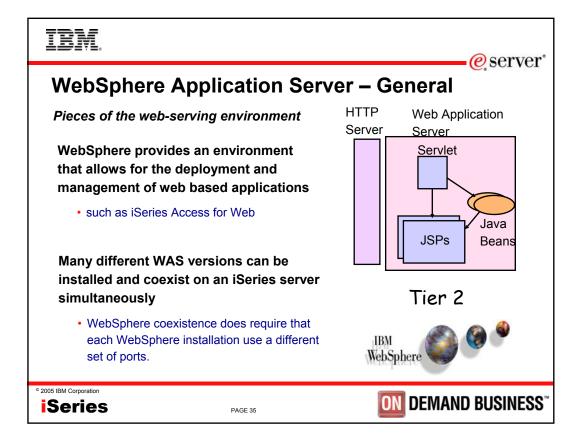


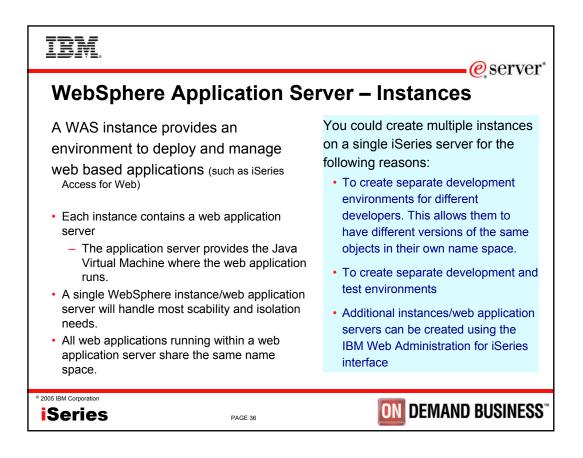
IBM.		eserver <sup>*</sup>
STRTCPS	<b>b Administration for iSe</b> SVR *HTTP HTTPSVR(*ADMIN) ur_server_name>:2001	
	IBM. iSeries Tasks	
	IBM HTTP Server for iSeries           Configure the iSeries HTTP Server and SSL           IBM WebSphere Application Server - F           Configure application servers and deploy applications           Digital Certificate Manager           Create, distribute, and manage Digital Certificates	
	IBM IPP Server for iSeries Configure the IBM IPP Server           4758 Cryptographic Coprocessor Configure the 4758 coprocessor	
	Related task information	Requires JavaScript)
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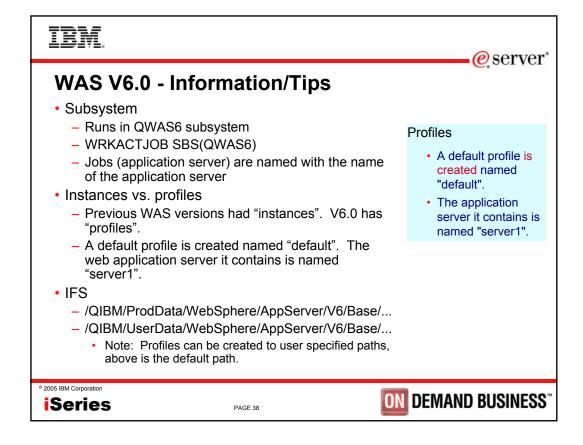


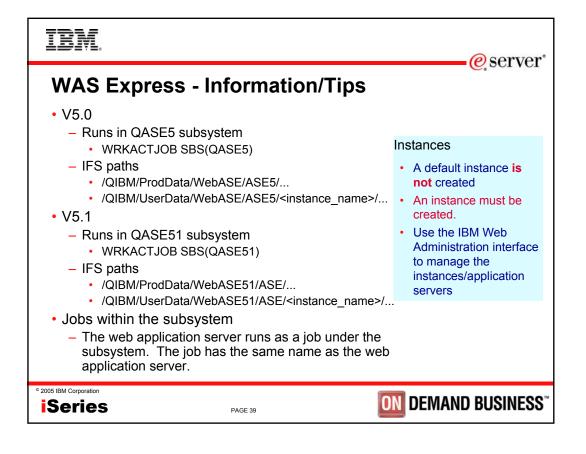


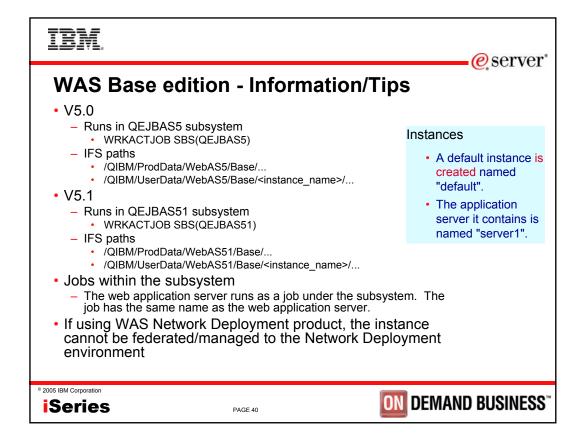


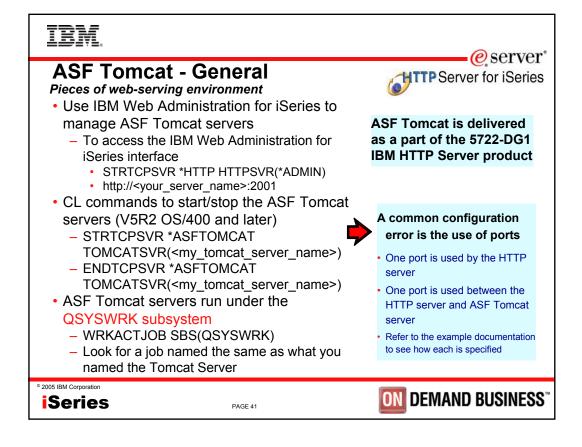
## **WAS Terminology**

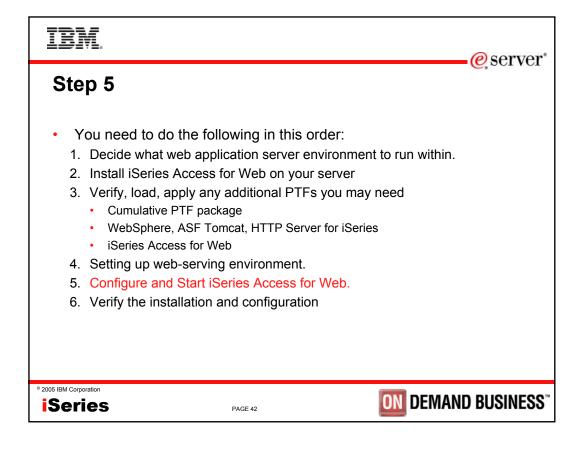
Instance T	In the iSeries environment, node means machine. This can be a real iSeries machine with a single image or it can be a logical partition (LPAR). This is a combination of one or more WAS servers and an administrative console	
t	This is a combination of one or more WAS servers and an administrative console	
-	that controls the configuration of its servers	
E	You may create one or many application servers within a single WAS incstance. Each server has its own Java Virtual Machine (JVM) but shares a single common console interface. This is true in both the WAS Express and WAS Base versions.	
H C E	A virtual host is a logical entity that is used to map HTTP servers or the built-in HTTP Server to domain names, IP address and ports that are allowed to communicate with a specific application server. This facility is used to help ensure that requests received by a specific HTTP Server are only processed by specific application servers.	
	At WAS V5, an application means all of your Java objects, properties files, and other resources bundled into an enterprise archive (EAR) or Web archive (WAR) file.	
1	A cell is a logical configuration that groups multiple nodes that are administered via the Deployment Manager (WAS ND) from a single point. WAS Express and WAS Base contain a single default cell. The cell exists but is invisible to users.	
a	A cluster is similar to a cell but is a logical grouping that contains multiple application servers in a WAS ND configuration. WAS Express and WAS Base contain a single cluster that's invisible to the user.	

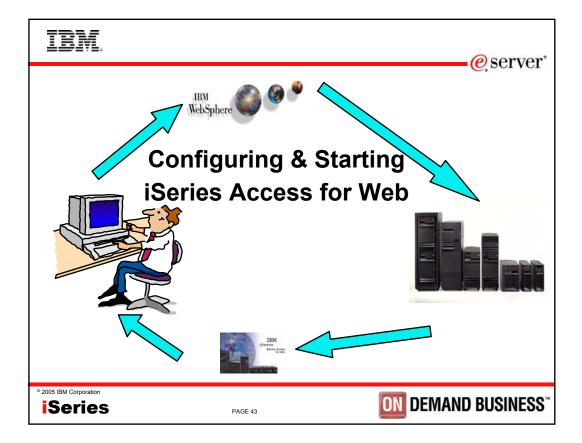


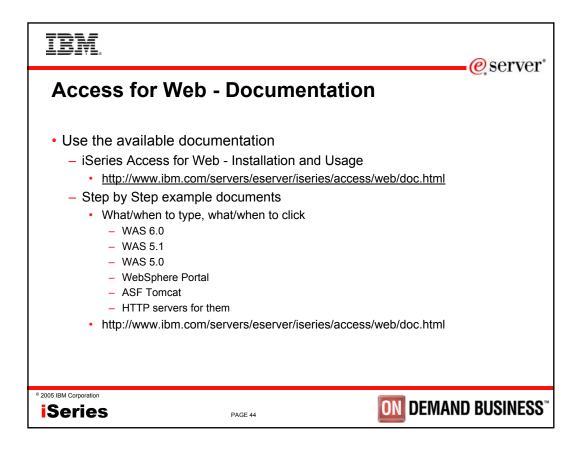


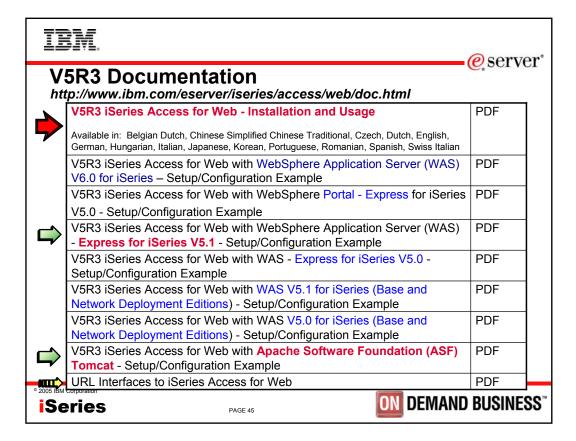


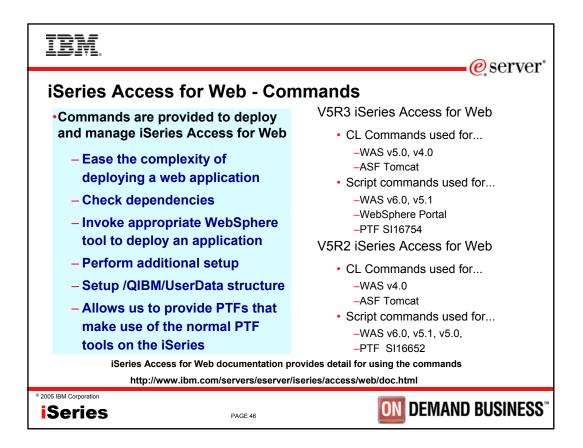


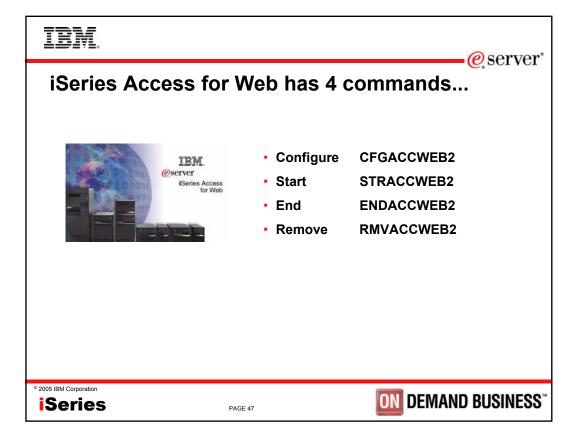


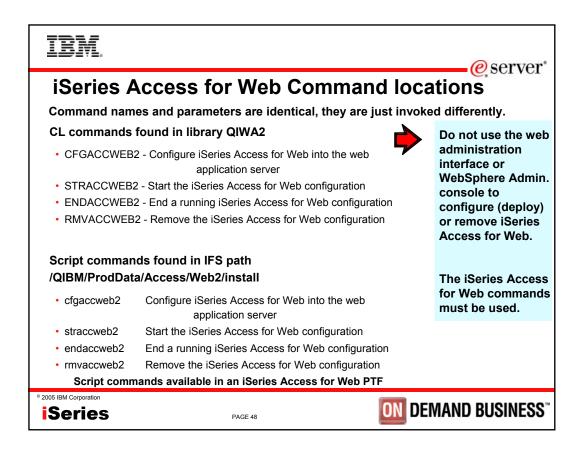


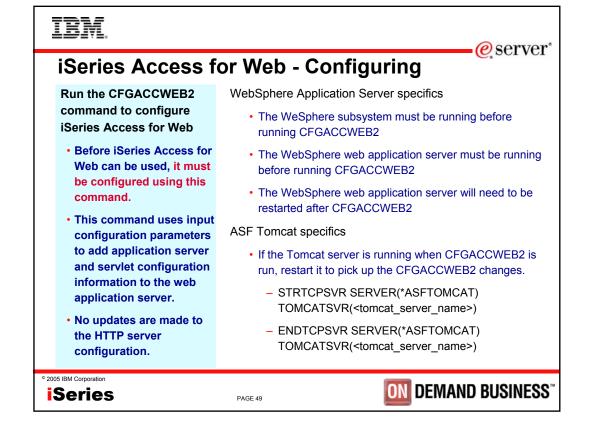


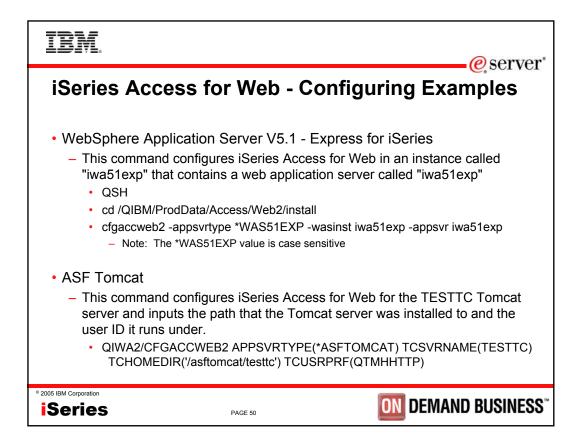


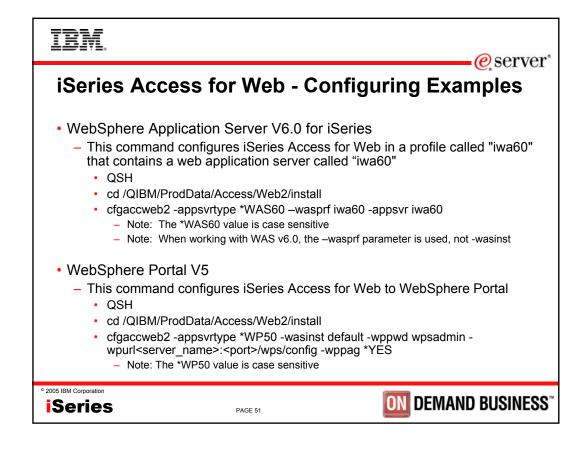


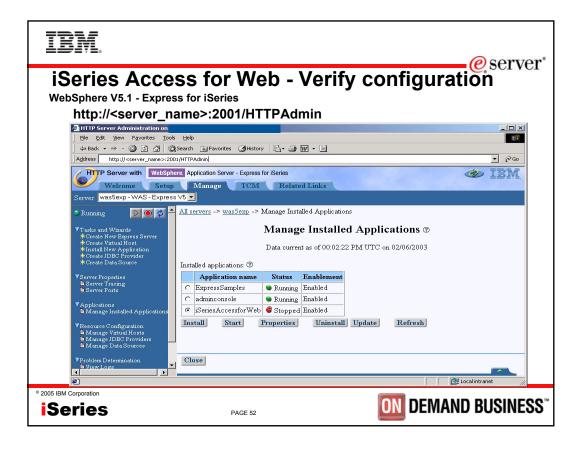


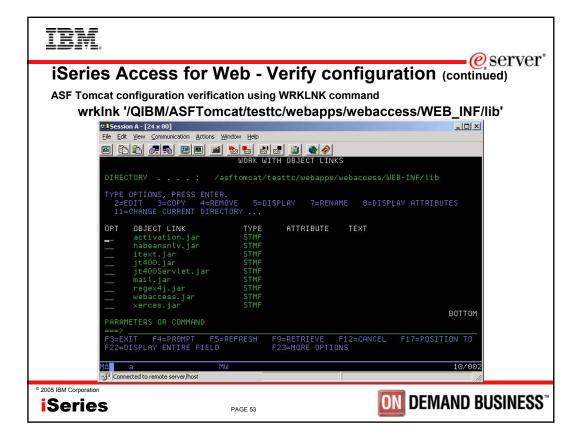


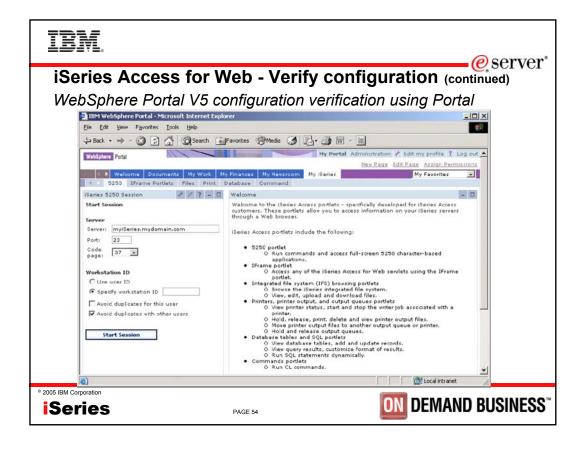


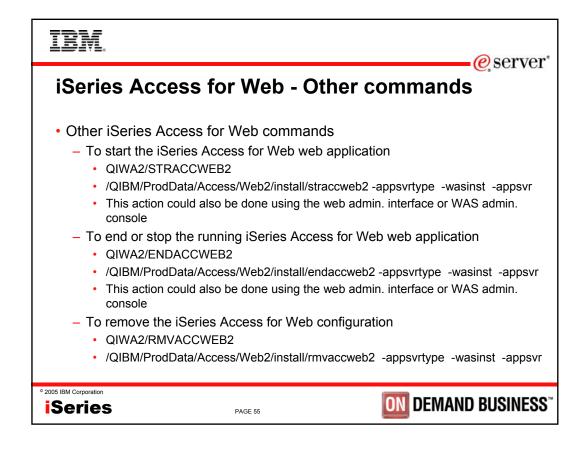


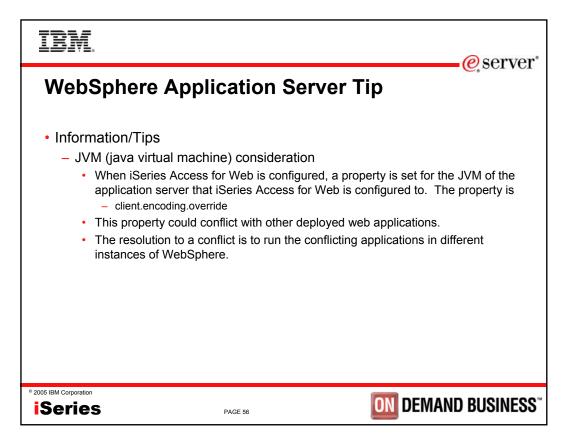


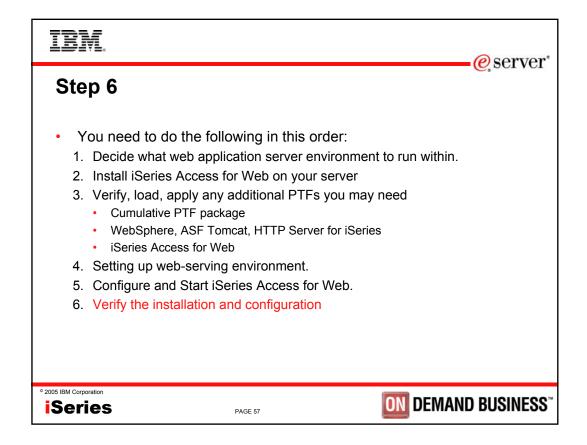


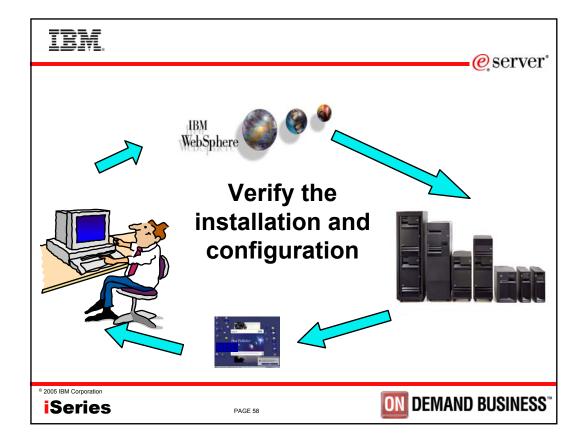


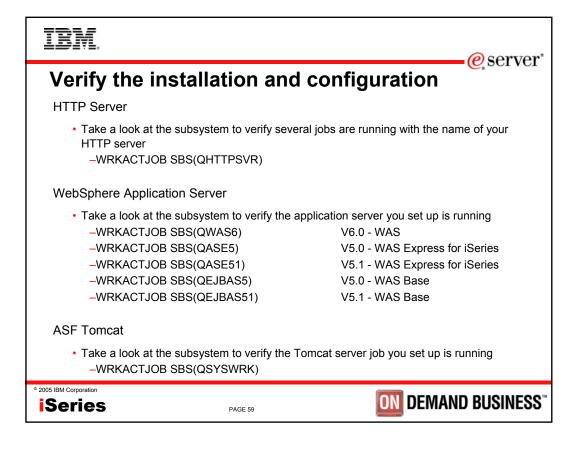






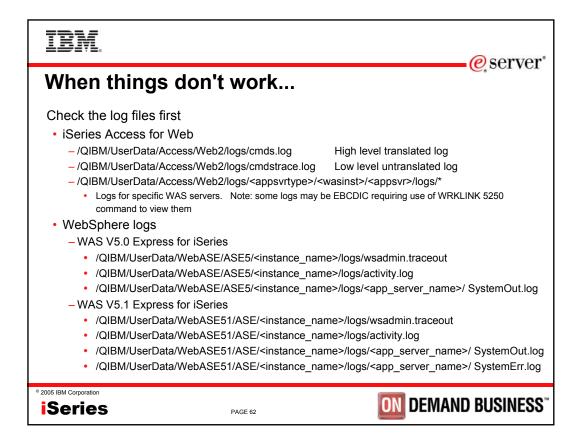






IBM.		eserver <sup>*</sup>
Verify the in	stallation and c	configuration (continued)
		ort>/webaccess/iWAHome ort>/webaccess/iWAMain
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IBM. @server		
When things don't work		
Verify		
The HTTP server is running.		
The WebSphere subsystem is running.		
The ASF Tomcat server is running.		
<ul> <li>That you restarted the web application server after running CFGACCWEB2.</li> </ul>		
<ul> <li>That you have the latest group PTFs for the HTTP server and WebSphere Application Server.</li> </ul>		
<ul> <li>That iSeries Access for Web is listed as an installed application in the web application server (via the IBM Web Administration interface)</li> </ul>		
If the HTTP server is using a port other than 80, verify the alias information was added to the WebSphere default_host alias table		
Not an issue if you used the IBM Web Administration for iSeries wizard to set up		
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Check the log files first

When things don't work...

## WebSphere logs

- WAS V5.0 Base
  - /QIBM/UserData/WebAS5/Base/<instance\_name>/logs/wsadmin.traceout
  - /QIBM/UserData/WebAS5/Base/<instance\_name>/logs/activity.log
  - /QIBM/UserData/WebAS5/Base/<instance\_name>/logs/<app\_server\_name>/SystemOut.log
  - /QIBM/UserData/WebAS5/Base/<instance\_name>/logs/<app\_server\_name>/SystemErr.log

## WAS V5.1 Base

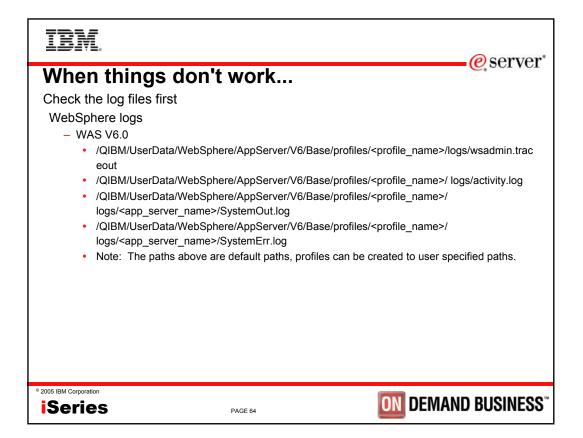
- /QIBM/UserData/WebAS51/Base/<instance\_name>/logs/wsadmin.traceout
- /QIBM/UserData/WebAS51/Base/<instance\_name>/logs/activity.log
- /QIBM/UserData/WebAS51/Base/<instance\_name>/logs/<app\_server\_name>/ SystemOut.log
- /QIBM/UserData/WebAS51/Base/<instance\_name>/logs/<app\_server\_name>/SystemErr.log

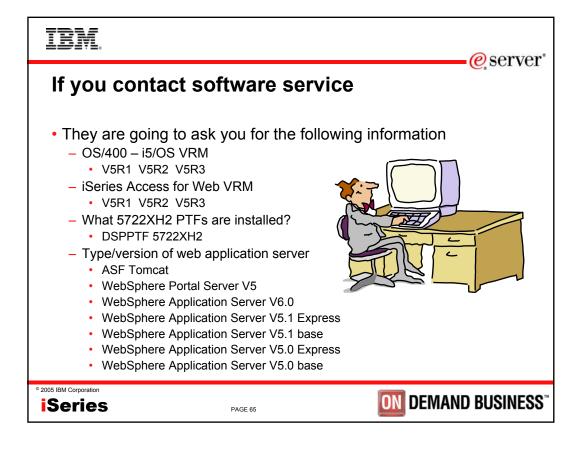
## - WebSphere Portal V5

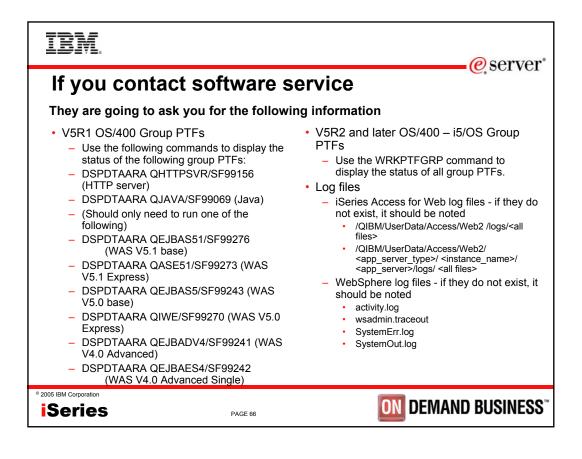
- /QIBM/UserData/WebAS5/Base/<instance\_name>/logs/wsadmin.traceout
- /QIBM/UserData/WebAS5/Base/<instance\_name>/logs/activity.log
- /QIBM/UserData/WebAS5/Base/<instance\_name>/logs/<app\_server\_name>/SystemOut.log
- /QIBM/UserData/WebAS5/Base/<instance\_name>/logs/<app\_server\_name>/SystemErr.log
- /QIBM/UserData/WebAS5/Base/<instance\_name>/PortalServer5/log

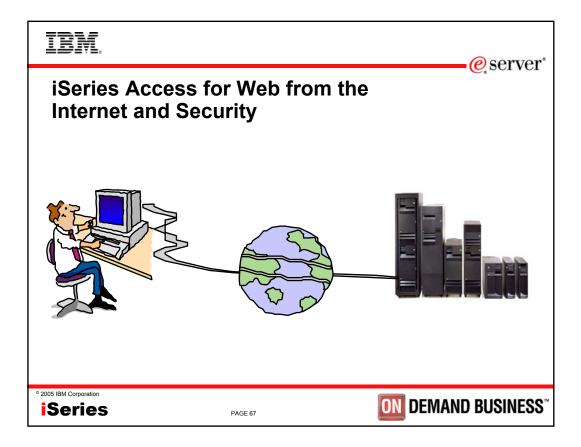
# © 2005 IBM Corporation

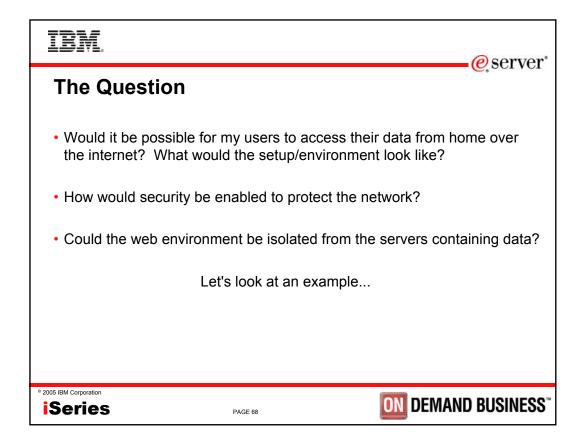


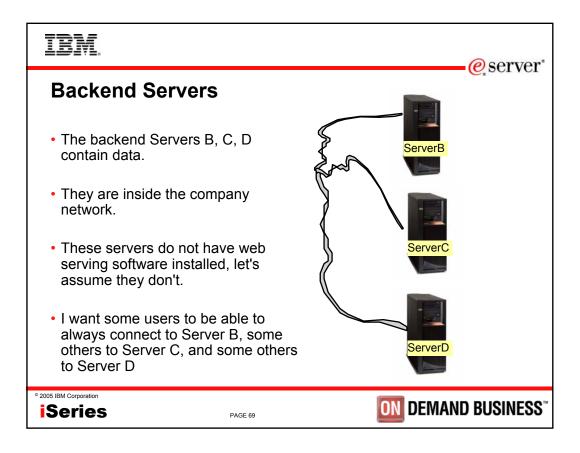


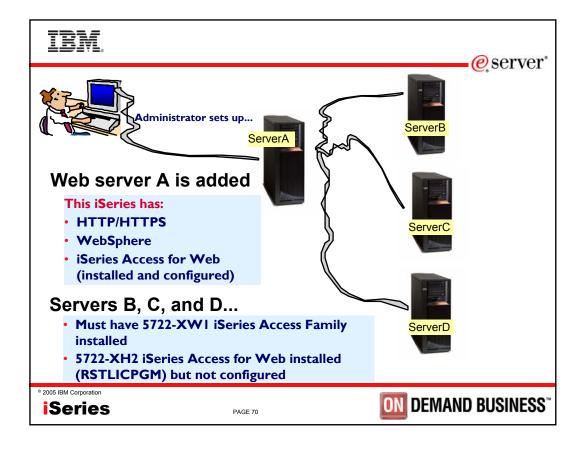


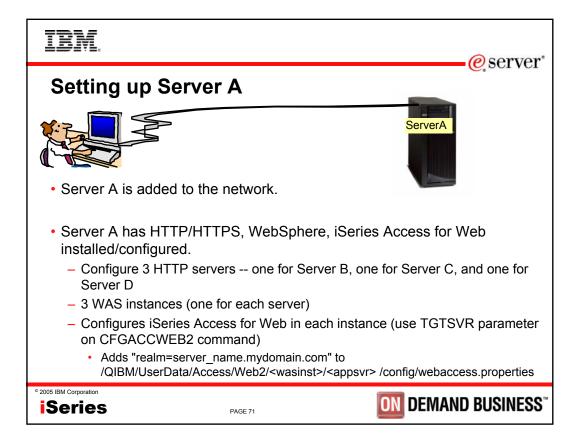


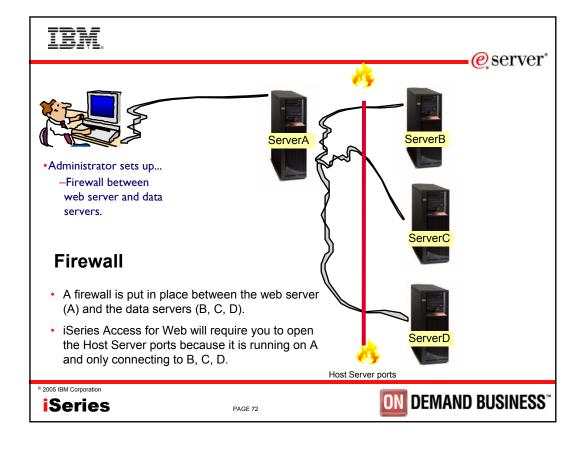


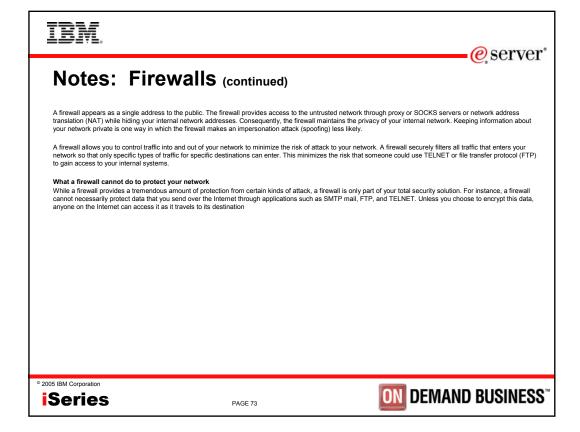


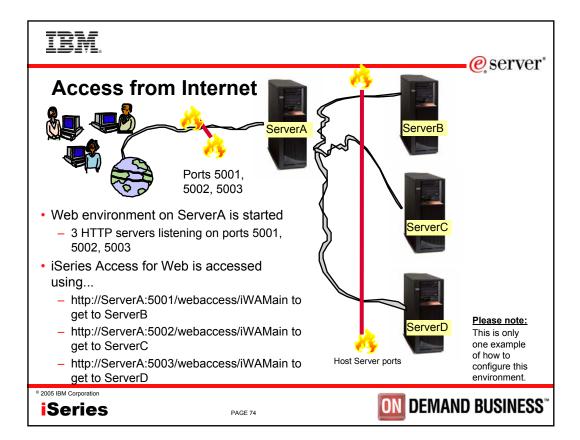


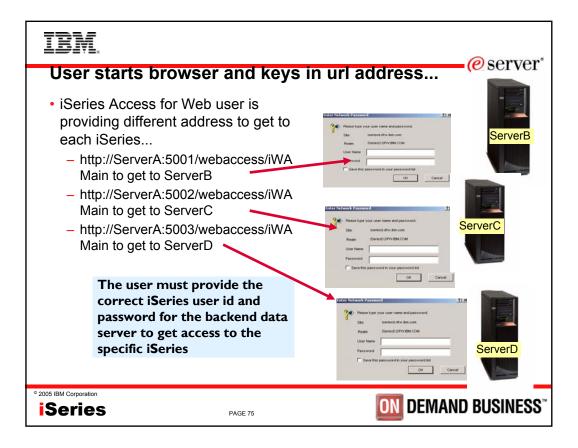


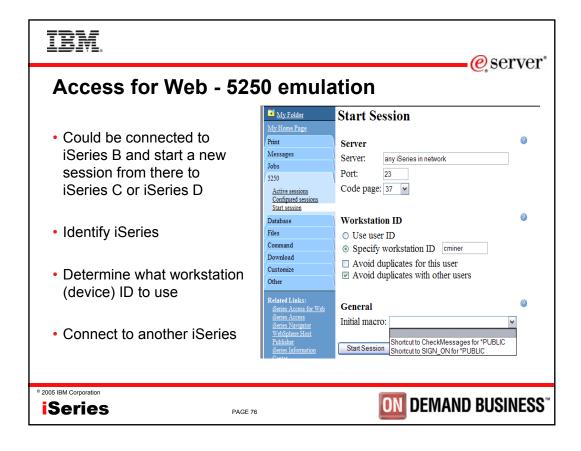




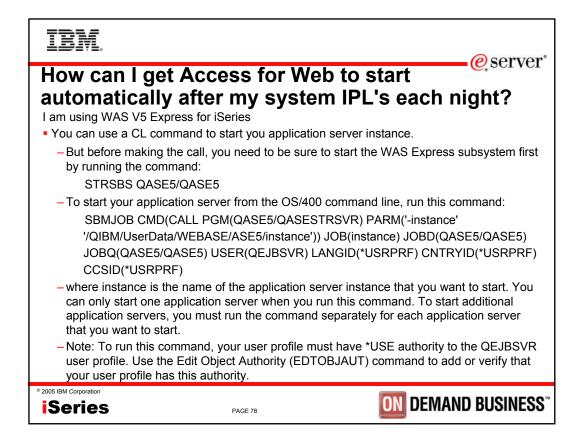


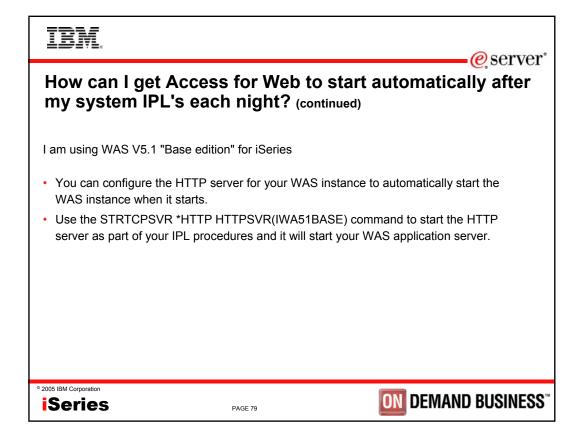


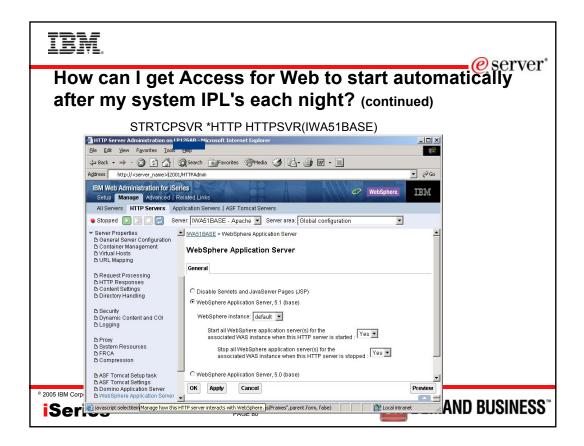


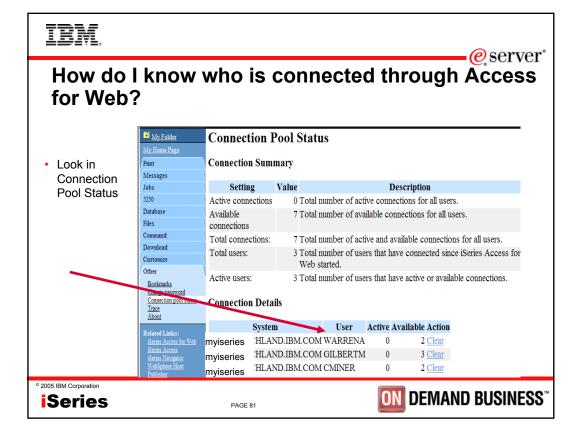


TRM e server Or could connect to another iSeries through a preconfigured shortcut Configured Sessions Microsoft Internet Explorer \_ 🗆 🔀 File Edit View Favorites Tools Help 🌀 Back 🔹 🕥 🕤 📓 🏠 🔎 Search 🤺 Favorites 📢 Media 🚱 🔗 - چ 🚍 🛛 🗾 🖇 http://<server\_name>/webaccess/iWAConfiguredSessions 🕶 🔁 Go IBM。 iSeries Access for Web dlb My Folder **Configured Sessions** Created Print Action 🕜 Session Server Shortcut By Access Messages Dallas Start Copy No đlb dlb Jobs dallas.xyzcompany.com Demos Delete Rename 5250 Create Shortcut Active sessions Edit Configured sessions Home Start Copy No dlb dlb Start session home.xyzcompany.com Delete Rename server Database Create Shortcut Files Edit Command Japan Start Copy No đlb đlb japan.xyzcompany.com Download server Delete Rename Customize Create Shortcut © 2005 IBM ( Other Edit SINESS Se Done 🧐 Local intranet

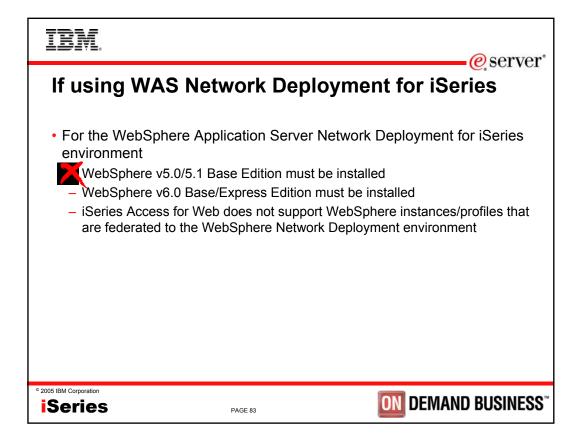


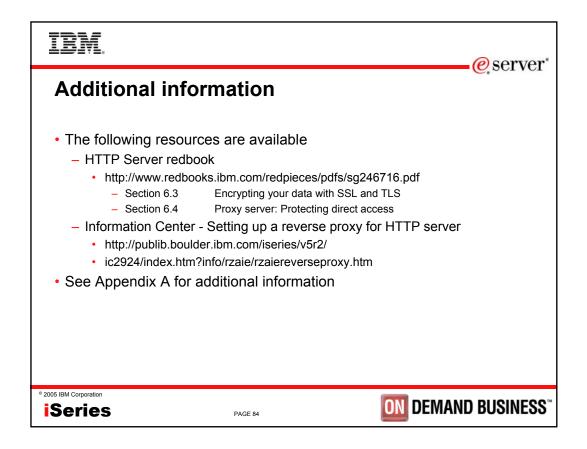


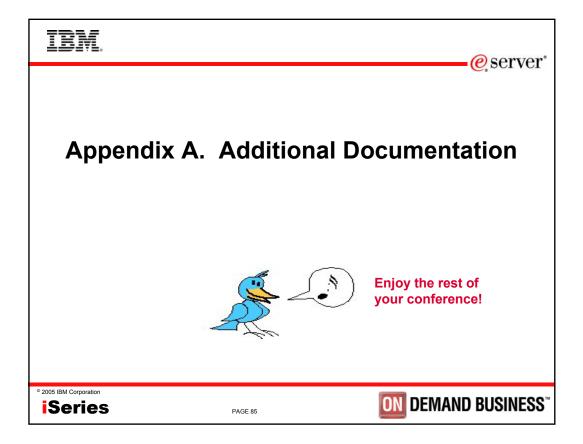


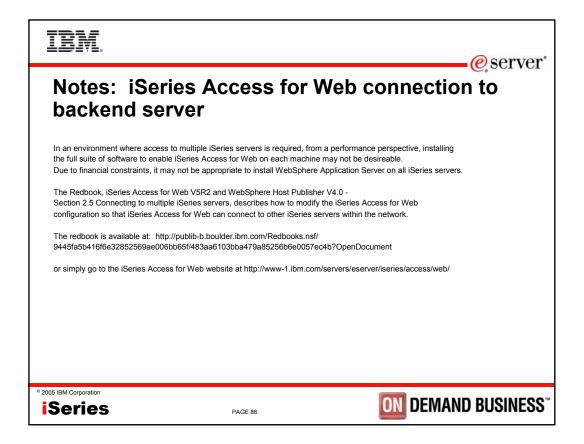


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Setting some limits for Access for Web use				
<ul> <li>Connection</li> <li>Pool Settings</li> </ul>	My Folder My Home Page	Settings - Co	onnection	Pool
C C	Print	Setting	Value	Description
<ul> <li>Can get to this via:</li> </ul>	Messages	Cleanup interval	5 minutes 💌	Specify how often to clean up connections.
– Link on	Jobs 5250	Connections per user	No maximum 🖌	Specify the maximum number of concurrent connections allowed per user.
Connection Pool Status screen	Database Files	Maximum inactivity	1 hour 🗸	Specify the maximum time a connection can be inactive before it is cleaned up.
<ul> <li>Customize -</li> <li>Settings</li> </ul>	Command Download	Maximum lifetime	24 hours 🗸	Specify the maximum time a connection can exist before it is cleaned up.
e e unige	Customize <u>Preferences</u> Policies	Maximum use count	500 🗸	Specify the maximum number of times a connection can be used before it is cleaned up.
	Settings Other	Maximum use time	No maximum 🖌	Specify the maximum time a connection can be active before it is cleaned up.
	Related Links: <u>iSeries Access for Web</u> <u>iSeries Access</u> iSeries Navigator	Save Cancel A	pply Shipp	bed Defaults
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IBM. N	lotes: HTTP/HT	TPS - SSL
consider an information transaction se	open system and it allows any computer on ecure, it has to have the following characte	the network to see the messages passing through. To
	e that the contents of the message remain	private as they pass through the network.
Integrity Use encryption and digital signature Accountability	es if you want to ensure integrity. Message	s are not altered while being transmitted.
	e sender and the receiver agree that the ex	xchange took place to ensure accountability.
	ntication so you can authenticate with whor	m you are talking.
authentication. A client establishes an is enabled on the server, a client certi authenticates and the client authentic	n SSL session by sending an HTTPS reque ificate is requested for any HTTPS request cates if enabled. When authenticated, they	ockets Layer (SSL), for data encryption and client/server est to the server on the SSL port. If SSL client authentication t. SSL uses a handshake protocol where the server agree on the security keys to use for the session, and the ession has been established, all data exchanged on that
	ved with enabling HTTPS. The steps may ation center and HTTP server documention	not address all issues relative to your environment. It is not ereferenced to enable HTTPS.
Security concepts informati information under the topic: Security and SSL informati Configure your HTTP server inst enable to run SSL. Configure digital certificates thro Configure the web application se Open a browser to one of the fol If using the default SSL por https://server_name>/web	s Networking>Networking Security. ion in the HTTP server documentation at h tance to allow SSL connections. You must bugh the Digital Certificate Manager on the erver to use the SSL port. The SSL port m llowing URLs: rt of 443 baccess/iWAHome bier, replace the <port> with the port numb</port>	//www.ibm.com/eserver/iseries/infocenter). Look for http://www.ibm.com/servers/eserver/iseries/software/http already have created an HTTP server that you want to iSeries server. ust be listed within the WebSphere virtual host alias table.
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iSeries	PAGE 87	<b>ON</b> DEMAND BUSINESS <sup>**</sup>
IBM.	Notes: Fire	ewalls
		twork such as the Internet. Most companies use a firewall ewall to secure one internal network from another also.
network. The firewall: • Lets users in your internal network	point of contact (called a chokepoint) betw k use authorized resources that are located he outside network from using resources of	
		reduce the risk to your internal network considerably. vall functions carry out many of your security policy

### How a firewall works

To understand how a firewall works, imagine that your network is a building to which you want to control access. Your building has a lobby as the only entry point. In this lobby, you have receptionists to welcome visitors, security guards to watch visitors, video cameras to record visitor actions, and badge readers to authenticate visitors who enter the building.

These measures may work well to control access to your building. But, if an unauthorized person succeeds in entering your building, you have no way to protect the building against this intruder's actions. If you monitor the intruder's movements, however, you have a chance to detect any suspicious activity from the intruder.

### **Firewall components**

A firewall is a collection of hardware and software that, when used together, prevent unauthorized access to a portion of a network. A firewall consists of the following components:

- Hardware. Firewall hardware usually consists of a separate computer or device dedicated to running the firewall software functions.
   Software. Firewall software provides a variety of applications. In terms of network security, a firewall provides these security controls
- through a variety of technologies:
- Internet Protocol (IP) packet filtering
- · Network address translation (NAT) services
- SOCKS server
- · Proxy servers for a variety of services such as HTTP, Telnet, FTP, and so forth
- Mail relay services
- Split Domain name services (DNS)

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## Notes: Firewalls (continued)

### Logging

Real-time monitoring

Note: Some firewalls provide virtual private networking (VPN) services so that you can set up encrypted sessions between your firewall and other compatible firewalls.

#### Using firewall technologies

You can use the firewall proxy servers, SOCKS server, or NAT rules to provide internal users with safe access to services on the Internet. The proxy and SOCKS servers break TCP/IP connections at the firewall to hide internal network information from the untrusted network. The servers also provide additional logging capabilities.

You can use NAT to provide Internet users with easy access to a public server behind the firewall. The firewall still protects your network because NAT hides your internal IP addresses.

A firewall also can protect internal information by providing a DNS server for use by the firewall. In effect, you have two DNS servers: one that you use for data about the internal network, and one on the firewall for data about external networks and the firewall itself. This allows you to control outside access to information about your internal systems

When you define your firewall strategy, you may think it is sufficient to prohibit everything that presents a risk for the organization and allow everything else. However, because computer criminals constantly create new attack methods, you must anticipate ways to prevent these attacks. As in the example of the building, you also need to monitor for signs that, somehow, someone has breached your defenses. Generally, it is much more damaging and costly to recover from a break-in than to prevent one.

In the case of a firewall, your best strategy is to permit only those applications that you have tested and have confidence in. If you follow this strategy, you must exhaustively define the list of services you must run on your firewall. You can characterize each service by the direction of the connection (from inside to outside, or outside to inside). You should also list users who you will authorize to use each service and the machines that can issue a connection for it.

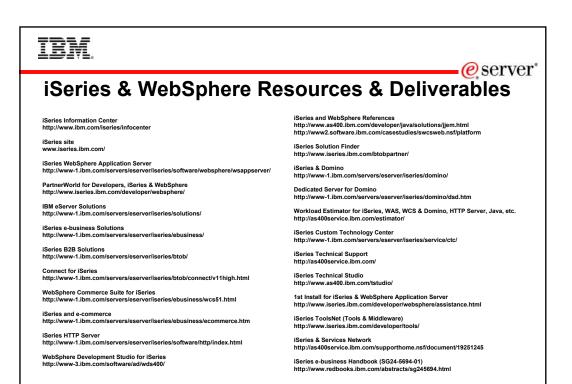
#### What a firewall can do to protect your network

You install a firewall between your network and your connection point to the Internet (or other untrusted network). The firewall then allows you to limit the points of entry into your network. A firewall provides a single point of contact (called a chokepoint) between your network and the Internet . Because you have a single point of contact, you have more control over which traffic to allow into and out of your network.

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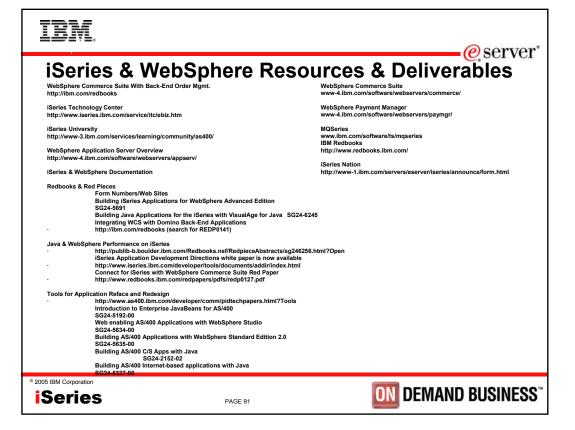
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