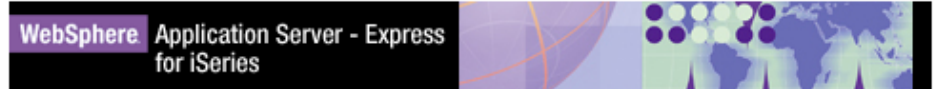
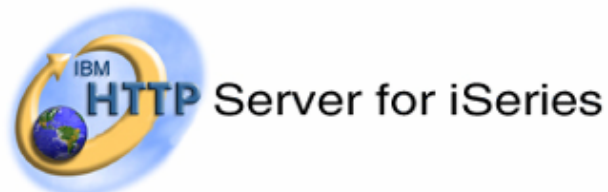




## Welcome to IBM HTTP Server with WebSphere Application Server - Express for iSeries




- Getting Started with HTTP Server**  
How do I get started? What do I need to get my web site up and running? Let "Getting Started with HTTP Server" show you how.
- What's New with HTTP Server**  
Find out what's new in the latest release of IBM HTTP Server for iSeries.
- Fundamental Apache Concepts**  
Understanding some fundamental concepts will make managing your HTTP server (powered by Apache) much easier to do.
- Beyond the Basics**  
Dig into more advanced HTTP server topics such as virtual hosting, ASF Tomcat, highly available HTTP servers and search engines.
- Overview of WebSphere Application Server - Express**  
Why should you use Application Server - Express? How is Application Server - Express different from Apache HTTP Server? How are virtual hosts and aliases different in the two servers? How do you get your e-business applications up and running? If you're new to application serving, start here. You'll learn about fundamental application server concepts and the product's architecture.
- WebSphere Application Server - Express Configuration and Management**  
Now that you're ready to use WebSphere Application Server - Express, you'll need to administer resources and applications. Learn how to use the HTTP Server GUI to manage the application server, install applications, and manage resources. Here you'll also find information on using the Web-based administrative console to secure applications and monitor performance.
- Application Development for WebSphere Application Server - Express**  
Are you new to developing e-business applications? Or do you just need some programming tips? Here you'll find information about developing servlets and JavaServer Pages (JSP) files for WebSphere Application Server - Express.

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Search Engine Setup

## Set Up Your Servers



Set up the servers that define your web presence, set up how users will access your servers, and define how searching will be done across your web site.

Create a new WebSphere Application Server - Express to serve your dynamic content.

### Tasks and Wizards

Select to create a HTTP server, or migrate an existing original HTTP server to a new HTTP (powered by Apache) server, or create an application server.

### Global Settings

Change your global settings that will affect all of your HTTP servers, as well as set up your access control lists for use with your original servers.

### Internet Users and Groups

Set up your Internet users and groups for additional access control to your web presence. Certificates can be used to identify and group users.

### Search Engine Setup

Set up a search engine for your web site. This allows you to control how searching will be done across your web servers.

javascript:selectitem("163061764","/HTTPAdmin/Frame/express.taskCreateExp/Frames",parent.form) Local intranet

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## Create New Express Server

Welcome to the Create New Express Server wizard. This wizard creates a new WebSphere Application Server - Express to run web applications with dynamic content. An application server consists of several pieces that you will need to consider and configure before your server will function.

- **Virtual Hosts**

Virtual hosts are the mechanism that route the URL request from the browser to the applications. Many application servers use one virtual host to control the routing of requests. If you wish for more granular control, you can create more virtual hosts to route a particular URL to a specific application. A single virtual host can receive requests from one or more HTTP servers.
- **Install Application**

Applications must be installed onto the application server to be accessed by your customers. The Install Application wizard will take your Enterprise Archive (EAR) or Web Archive (WAR) file that contains the application and deploy the application on the server.

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### Create New Express Server

#### Specify Application Server - Express Name

Specify a unique name for the application server.

Application server name:

Click **Next** to continue or **Cancel** to leave at anytime.

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## Create New Express Server

### Select HTTP Server Type

The application server requires an association with a HTTP server. This HTTP server will route the incoming URL requests to this application server.

Choose the HTTP server type:

- Create a new HTTP server (powered by Apache)
- Select an existing HTTP server (powered by Apache)

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Search Engine Setup

## Create New Express Server

### Create a new HTTP server (powered by Apache)

A new HTTP server (powered by Apache) will be created and configured to be used by this application server.

HTTP server name:

Your HTTP server may listen for requests on a specific IP address or on all IP addresses of the system.

On which IP address and TCP port would you like your HTTP server to listen?

IP address:

Port:

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## Create New Express Server

### Specify Internal Ports Used by the Server

The Application Server - Express, uses several internal services such as internal HTTP transport service, Simple Object Access Protocol (SOAP) service, name service, and several other services to perform its processing. In order for these services to be configured, you must provide a block of 12 consecutive ports that are currently not in use on your system. Specify the first TCP port number in the range and the wizard will assign the ports that are to be used by each internal service. For example, if 3001 is entered as the first port in the range, then ports 3001 to 3012 will be configured.

First port in range:

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## Create New Express Server

### Select Business and Sample Applications

The Application Server - Express has business and sample applications that you can optionally choose to install in this application server. Choose the applications that you would like installed and the wizard will deploy them for you.

Select which business applications to install:

- IBM Telephone Directory - An online phone book, providing powerful search capabilities with an easy to use interface.

Select which sample applications to install:

- ExpressSamples - A set of samples, including SnoopServlet, that can be used to verify that your application server is working.
- DB2 Web Services - A set of samples that demonstrate using the Web Services Object Runtime Framework to deploy web services.

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## Create New Express Server Summary

When you click **Finish** this Application Server - Express will be created.

**Application server name:** was5ex1  
**Associated HTTP server:** WAS5EX1WS  
**HTTP server addresses:** \*:12000  
**Internal port range:** 12001 - 12012  
**Virtual host:** default\_host

**Business applications:**

Application name	URL to access application
IBM Telephone Directory	BENNEVIS:12000/bizApps

**Sample applications:**

Application name	URL to access application
ExpressSamples	BENNEVIS:12000/Snoop

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HTTP Server with **WebSphere** Application Server - Express for iSeries

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Server: was5xBW - WAS - Express V5

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  - Server Tracing
  - Server Ports
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  - Manage Virtual Hosts
  - Manage JDBC Providers
  - Manage Data Sources
- Problem Determination
  - View Logs
- Tools
  - Launch Express Console

### Manage Application Server - Express "was5xBW"

#### Create Additional Virtual Host

The default virtual host "default\_host" was created for this application server. However, you can specify additional virtual hosts for more control over what URI's can run which applications.

**Details**

Virtual hosts can communicate with one or more HTTP servers. When creating a virtual host you must also define which HTTP server(s) the application will use to serve its contents. This wizard will create an additional virtual host and update the corresponding HTTP server to send requests to the application server.

#### Install New Application

After creating the server and virtual host you can install your applications.

**Details**

Applications must be installed on an application server to be accessed by your users. Use this wizard to install your applications. Make sure your applications are located in an IFS directory on this iSeries server.

#### Create Data Source

Then, define the resources the application server will use to access data for your applications.

**Details**

Applications typically use information contained within databases. In order for the application server to communicate with those databases you will need to create links called Java Database Connector (JDBC) Providers and data sources for each application. Use these wizards to create those resources.

#### Current Configuration for Server - was5xBW

Manage Virtual Hosts	Manage Installed Applications	Manage Data Sources
<ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> default_host</li> <li><input checked="" type="checkbox"/> admin_host</li> </ul>	<ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> IBM Telephone Directory</li> <li><input checked="" type="checkbox"/> ExpressSamples</li> <li><input checked="" type="checkbox"/> adminconsole</li> <li><input checked="" type="checkbox"/> OE Demo</li> <li><input checked="" type="checkbox"/> Business Applications</li> </ul>	<ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Default Datasource</li> </ul>


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WebSphere Administrative Console - Microsoft Internet Explorer

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Address <http://bennevis:11011/admin/secure/logon.do> Go Links

**WebSphere** Application Server *Administrative Console* Version 5 

Home | Save | Preferences | Logout | Help

User ID: bruce

**BENNEVIS\_was5xBW**

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- [-] Applications
  - [Enterprise Applications](#)
  - [Install New Application](#)
- [-] Resources
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  - [Resource Adapters](#)
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- [-] Environment
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- [-] System Administration
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**was5xBW**

An application server is a server which provides services required to run enterprise applications. ⓘ

**Runtime** **Configuration**

**General Properties**

Name	was5xBW	ⓘ The display name for the server.
Initial State	Started	ⓘ The execution state requested when the server is first started.
Application classloader policy	Multiple	ⓘ Specifies whether there is a single classloader for all applications ("Single") or a classloader per application ("Multiple").
Application class loading mode	Parent first	ⓘ Specifies the class loading mode when the application classloader policy is "Single"

Apply OK Reset Cancel

**Additional Properties**

<a href="#">Web Container</a>	Specify thread pool and dynamic cache settings for the container. Also, specify session manager settings such as persistence and tuning parameters, and HTTP transport settings.
<a href="#">Logging and Tracing</a>	Specify Logging and Trace settings for this server.
<a href="#">ORB Service</a>	Specify settings for the Object Request Broker Service.
<a href="#">Custom Properties</a>	Additional custom properties for this runtime component. Some components may make use of custom configuration properties which can be defined here.

**WebSphere Status** ⓘ [< Previous](#) [Next >](#) 10 February 2003 17:52:43 UTC ⓘ

**WebSphere Configuration Problems**

Total Workspace Files 0 ● Total Configuration Problems ⓘ

[-] Preferences

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**WebSphere** Application Server - Express for iSeries  
Business Applications

Home

# Welcome

You are at the business applications home page. Select one of the following applications. You will be prompted to log in if necessary.

 [IBM Telephone Directory](#)  
Lookup your co-workers online.

---

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WebSphere Application Server - Express for iSeries  
Business Applications

Home

 Search  
[Advanced Search](#)  
[Help](#)  
[Register](#)

## Search

Search for an employee using the fields below.

Search On:  [Advanced Search](#)

Search For:

---

### Search Tips

When searching by name, enter the last name first. To search for matches that begin or end with the same characters, use an asterisk as a wildcard.

Examples of searches by name: Smith, John  
smi\*,j  
\*ith

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Have Same Manager Report-to-Chain [Manages](#)

[Update Profile](#) [Change Password](#) [Delete Profile](#)

## Wassell, Robert B

Preferred First Name: **Bruce**  
Title: **Mr.**  
Job Responsibility: **IT Consultant**  
Phone (Primary): **01256 343124**  
Cellular: **07730 052604**  
Fax: **01256 817402**  
Email: [bruce\\_wassell@uk.ibm.com](mailto:bruce_wassell@uk.ibm.com)  
Business Address: **Alencon House, Alencon Link  
Basingstoke, Hants, RG21 7EJ**



Division: **ESG**  
Department: **ATSS**  
Country: **UK**

Work Location: **Basingstoke** Employee Type: **Regular**  
Building: **Alencon** Manager: **Yes**  
Floor: **5** User ID: **bruce**

**Additional Details**

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### Parts Order Entry

Type choices, press Enter.  
2=Change

Customer number . . . . . \_\_\_\_\_ Order number . . . . . :

Select Customer

Type choices, press Enter.  
1=Select

Opt Customer

- 0001 OAKLEY, Annie O
- 0002 BARBER, Elizabeth A
- 0003 Pork, Piggy B
- 0004 WILLIS, NEIL U
- 0005 Mullen-Schultz, Gary C

More...

Fkey12=Cancel

F3=Exit    F4=Prompt    F6=Accept Order    F12=Cancel

BENNEVIS

File Edit View Communication Actions Window Help

Parts Order Entry

Type choices, press Enter.  
2=Change

Customer number . . . . . 0003      Order number . . . . . : 3773  
 Customer name . . . . . : Pork, Piggy B  
 Address . . . . . : 00003 Ave. SIX  
 City . . . . .

Opt Part      Description

  \_ 000002 Blacksmith's  
 \_ 000006 Saw Bench

F3=Exit    F4=Prompt    F6=

Select Part

Type choices, press Enter.  
1=Select

Opt Part	Description	Qty
= 000026	Jig Saw	232
_ 000027	Metronome	351
_ 000028	Micrometer	153
_ 000029	Thin nosed pliers	137
_ 000030	Monkey Wrench	168
		More...

F12=Cancel

MA a 16/031

1902 - Session successfully started



# Order Entry Demo

## Parts Order Entry

Click on item to change

Customer number . . . . .

Order number . . . . .

  
Enter  
Cancel  
HELP

**Select Customer**  
Click on picture to select

Customer	
	OAKLEY, Annie O
	BARBER, Elizabeth A
	Pork, Piggy B
	WILLIS, NEIL U
	Mullen-Schultz, Gary C

Fkey12=Cancel

# Order Entry Demo

## Parts Order Entry

Click on item to change

**TDM**  
South  
WebFacing

Enter

Cancel

HELP

Customer number ..... 0003      Order number ..... 3775

Customer name ..... Pork, Piggy B


Address ..... 00003 Ave. SIX

City ..... 4567

Part	Description
<a href="#">000002</a>	Blacksmith's Anvil
<a href="#">000006</a>	Saw Bench

**Select Part**

Click on part to select

Part	Description	Qty
	Jig Saw	232
	Metronome	351
	Micrometer	153
	Thin nosed pliers	137
	Monkey Wrench	168

Qty
1
2