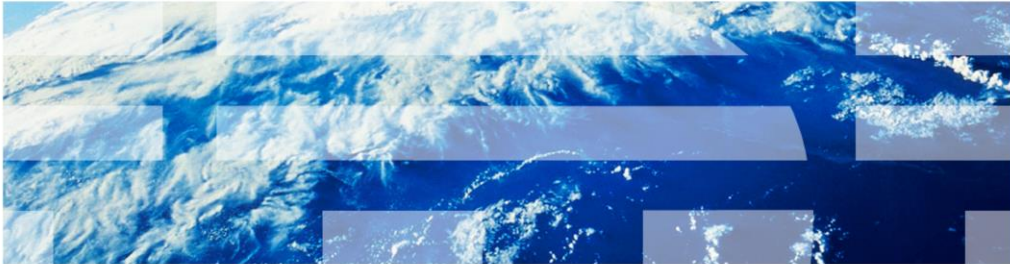


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## IBM PureApplication System and IBM Workload Deployer IBM Business Process Management Pattern V8.0

### Tools and Administrative Console



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This presentation will cover the connection of some external tools and the WebSphere Administrative Console of the BPM Pattern V8.0 in IBM PureApplication System and IBM Workload Deployer.

## Agenda

- Connecting BPM tools
- Administrative console

The agenda is on this slide.

## Connecting BPM tools

This section of the presentation will describe some connection requirements for the Integration Designer and the Process Designer.

## IBM Integration Designer – initial connection to PC proxy (IHS)

- IBM Integration Developer runs outside the cloud environment and connects to the runtime process center
- Connection is to proxy (IHS) virtual machine DNSname or IP address, plus port 80

The screenshot displays the IBM Integration Designer interface. At the top, there is a header with the IBM logo. Below the header, the title "IBM Integration Designer – initial connection to PC proxy (IHS)" is shown. A list of virtual machines is displayed, with one selected: "aimcpwd015-BPM" (PC IHS-AIMCP\_BPM). The progress bars for this VM show 0% and 3%. To the right of the VM list are "Login" and "Manage" buttons. Below the VM list, a box shows the network interface details for "aimcpwd015.pbm.ihost.com (129.40.54.15)". A red arrow points from the VM name to this box. Below that, a "Process Center Login" dialog box is open. The dialog contains the following text: "Log in to start working with Process Center or cancel to switch to the Business Integration perspective." Below this, it says "Process Center URI:" with an example "http://server:port/ProcessCenter". The input field contains "http://aimcpwd015.pbm.ihost.com:80/processcenter". Below the URI field are fields for "User Name:" (containing "virtuser") and "Password:" (with masked characters). At the bottom of the dialog are "Login" and "Cancel" buttons. A red arrow points from the IP address in the network interface box to the URI field in the login dialog. At the bottom of the screenshot, there is a footer with the text "4 IBM Business Process Management V8 Pattern Tools and Administrative Console © 2012 IBM Corporation".

You need your own copy of the Integration Designer installed on your workstation. When you start it up the first time and switch it to the process center perspective, you are prompted to provide the URL and credentials to connect to the proxy (IHS) server for the process center. Use the dnsname or IP address from the appropriate HTTP server virtual machine details, and provide the port 80.

## IBM Integration Designer – new server connection via DMGR

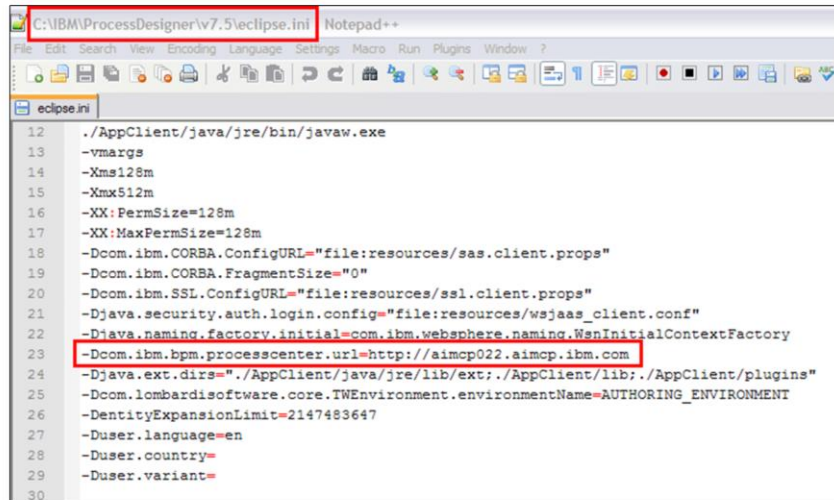
- Provide process center DMGR virtual machine dnsname or IP address, and RMI port of 9809

The screenshot displays the IBM Integration Designer interface. At the top, a server card for 'aimcpwd014-BPM' is shown with a progress bar at 15% and buttons for 'Login' and 'Manage'. Below it, a network interface box for 'aimcpwd014.pbm.ihost.com (129.40.54.14)' is visible. A 'New Server' dialog box is open, titled 'Create an IBM Process Center'. The dialog prompts for connection settings, including a 'Host name' field containing 'aimcpwd014.pbm.ihost.com'. Under 'Server connection types and administrative ports', the 'RMI port' checkbox is checked and set to '9809', while the 'SOAP port' checkbox is unchecked. A 'Security is enabled on this server' section shows 'Current active authentication settings' with 'User ID' set to 'virtuser' and a masked password field. Navigation buttons '< Back', 'Next >', 'Finish', and 'Cancel' are at the bottom of the dialog. The footer of the application window reads '5 IBM Business Process Management V8 Pattern Tools and Administrative Console © 2012 IBM Corporation'.

While in the process center perspective, when you go on to “Open in Workspace” a process application, another prompt for a URL and credentials is presented for the process center deployment manager. Provide the deployment manager dnsname or IP address as the **Host name**. Then select the **RMI port** of **9809**. Also provide the virtuser ID and password.

## Connect Process Designer to a different Process Center

- By default, a process designer download from a given process center console is setup to connect to that specific process center
- To connect process designer to a different process center, edit eclipse.ini file in the process designer directory to contain the process center IHS (HTTP server) virtual machine URL



```
C:\IBM\ProcessDesigner\v7.5\eclipse.ini Notepad++
File Edit Search View Encoding Language Settings Macro Run Plugins Window ?
eclipse.ini
12  ./AppClient/java/jre/bin/javaw.exe
13  -vmargs
14  -Xms128m
15  -Xmx512m
16  -XX:PermSize=128m
17  -XX:MaxPermSize=128m
18  -Dcom.ibm.CORBA.ConfigURL="file:resources/sas.client.props"
19  -Dcom.ibm.CORBA.FragmentSize="0"
20  -Dcom.ibm.SSL.ConfigURL="file:resources/ssl.client.props"
21  -Djava.security.auth.login.config="file:resources/wsjaas_client.conf"
22  -Djava.naming.factory.initial=com.ibm.websphere.naming.WsnInitialContextFactory
23  -Dcom.ibm.bpm.processcenter.url=http://aimcp022.aimcp.ibm.com
24  -Djava.ext.dirs=".;./AppClient/java/jre/lib/ext;./AppClient/lib;./AppClient/plugins"
25  -Dcom.lombardisoftware.core.TWEnvironment.environmentName=AUTHORING_ENVIRONMENT
26  -DentityExpansionLimit=2147483647
27  -Duser.language=en
28  -Duser.country=
29  -Duser.variant=
30
```

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When the IBM Process Designer product is downloaded from the process center, it is automatically wired to connect to that same process center that it was downloaded from. In order to change the process center that the process designer will connect to, you will need to obtain the host name of the HTTP server virtual machine for the deployed process center, and use that host name in the eclipse.ini file of the process designer. You will find the HTTP server's host name by viewing the HTTP server's virtual machine details in the process center's running deployment instance in PureApplication System or Workload Deployer.

## Administrative console

This section of the presentation will discuss the WebSphere Administrative Console

## Administrative console – stand-alone, process center, and process server

The screenshot displays the IBM Administrative Console interface. It features three rows of process center information, each with a status icon, name, progress bars, and action links. Below these is a 'Consoles' section with two links: 'VNC' and 'WebSphere', the latter of which is highlighted with a red box.

Process Center Name	Progress 1	Progress 2	Actions
aimcpwd021-BPM PC Standalone-AI	0%	2%	Login Manage
aimcpwd015-BPM PC DMGR-AIMCP_BP	1%	9%	Login Manage
aimcpwd012-BPM PS DMGR-AIMCP_BP	0%	11%	Login Manage

**Consoles**

- VNC
- WebSphere**

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The administrative console is available to you just as it is with the base BPM product. For a stand-alone configuration, the link is in the **Consoles** section of the stand-alone virtual machine. For the clustered configuration, the link is in the **Consoles** section of the deployment manager virtual machine, separate consoles for each of the process centers and process servers.



## Administrative console login

The screenshot shows a Mozilla Firefox browser window titled "WebSphere Integrated Solutions Console - Mozilla Firefox: IBM Edition". The address bar displays the URL "https://aimcpwd015.pbm.ihost.com:9043/ibm/console/ologon.jsp". The main content area features the "WebSphere software" logo at the top left. Below it is an illustration of three stylized human figures (blue, orange, and green) with a large yellow key in front of them. To the right of this illustration, the text "WebSphere Integrated Solutions Console" is displayed. Below this text are two input fields: "User ID:" with the value "virtuser" entered, and "Password:" with a masked password of seven dots. A "Log in" button is positioned below the password field. At the bottom of the page, there is a copyright notice: "Licensed Materials - Property of IBM (c) Copyright IBM Corp. 1997, 2011 All Rights Reserved. IBM, the IBM logo, ibm.com and WebSphere are trademarks or registered trademarks of International Business Machines Corp., registered in many jurisdictions worldwide. Other product and service names might be trademarks of IBM or other companies. A current list of IBM trademarks is available on the Web at [Copyright and trademark information](#)."

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Click the **WebSphere** link on the previous slide to bring up the administrative console in a new browser screen. Use the virtuser ID and its password.

## Application servers – process server

- 2 nodes (BPMNode and BPMNode1) and 4 clusters

The screenshot displays the 'Application servers' page in the IBM Business Process Management V8 Pattern Tools and Administrative Console. The left-hand navigation pane shows a tree structure with 'Servers' expanded to 'Server Types', where 'WebSphere application servers' is highlighted with a red box. The main content area shows a table of application servers with columns for Name, Node, Host Name, Version, Cluster Name, and Status. Two nodes, 'BPMNode' and 'BPMNode1', are highlighted with red boxes. The table lists four clusters for each node: BPM.AppTarget, BPM.Messaging, BPM.Support, and BPM.WebApp.

Select	Name	Node	Host Name	Version	Cluster Name	Status
<input type="checkbox"/>	<a href="#">BPM.AppTarget.BPMNode.0</a>	BPMNode	aimcpwd018.pbm.ihost.com	ND 8.0.0.3 BPMAPS 8.0.0.0	BPM.AppTarget	➔
<input type="checkbox"/>	<a href="#">BPM.AppTarget.BPMNode1.0</a>	BPMNode1	aimcpwd010.pbm.ihost.com	ND 8.0.0.3 BPMAPS 8.0.0.0	BPM.AppTarget	➔
<input type="checkbox"/>	<a href="#">BPM.Messaging.BPMNode.0</a>	BPMNode	aimcpwd018.pbm.ihost.com	ND 8.0.0.3 BPMAPS 8.0.0.0	BPM.Messaging	➔
<input type="checkbox"/>	<a href="#">BPM.Messaging.BPMNode1.0</a>	BPMNode1	aimcpwd010.pbm.ihost.com	ND 8.0.0.3 BPMAPS 8.0.0.0	BPM.Messaging	➔
<input type="checkbox"/>	<a href="#">BPM.Support.BPMNode.0</a>	BPMNode	aimcpwd018.pbm.ihost.com	ND 8.0.0.3 BPMAPS 8.0.0.0	BPM.Support	➔
<input type="checkbox"/>	<a href="#">BPM.Support.BPMNode1.0</a>	BPMNode1	aimcpwd010.pbm.ihost.com	ND 8.0.0.3 BPMAPS 8.0.0.0	BPM.Support	➔
<input type="checkbox"/>	<a href="#">BPM.WebApp.BPMNode.0</a>	BPMNode	aimcpwd018.pbm.ihost.com	ND 8.0.0.3 BPMAPS 8.0.0.0	BPM.WebApp	➔
<input type="checkbox"/>	<a href="#">BPM.WebApp.BPMNode1.0</a>	BPMNode1	aimcpwd010.pbm.ihost.com	ND 8.0.0.3 BPMAPS 8.0.0.0	BPM.WebApp	➔

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When logging in to a process server administrative console and navigating to **Servers > Server types > WebSphere application servers**, this slide shows that two nodes with four clusters have been deployed. The node names are **BPMNode** and **BPMNode1**.

## Application servers – process center

- 2 nodes (BPMNode2 and BPMNode3) and 4 clusters

The screenshot shows the 'Application servers' administrative console. The left sidebar contains a navigation tree where 'WebSphere application servers' is selected. The main content area displays a table of application servers. The table has the following columns: Name, Node, Host Name, Version, Cluster Name, and Status. There are 8 rows of data, representing 2 nodes (BPMNode2 and BPMNode3) each with 4 clusters. The nodes BPMNode2 and BPMNode3 are highlighted with red boxes in the original image.

Select	Name	Node	Host Name	Version	Cluster Name	Status
<input type="checkbox"/>	<a href="#">BPM.AppTarget.BPMNode2.0</a>	BPMNode2	aimcpwd017.pbm.ihost.com	ND 8.0.0.3 BPMAPC 8.0.0.0	BPM.AppTarget	➔
<input type="checkbox"/>	<a href="#">BPM.AppTarget.BPMNode3.0</a>	BPMNode3	aimcpwd008.pbm.ihost.com	ND 8.0.0.3 BPMAPC 8.0.0.0	BPM.AppTarget	➔
<input type="checkbox"/>	<a href="#">BPM.Messaging.BPMNode2.0</a>	BPMNode2	aimcpwd017.pbm.ihost.com	ND 8.0.0.3 BPMAPC 8.0.0.0	BPM.Messaging	➔
<input type="checkbox"/>	<a href="#">BPM.Messaging.BPMNode3.0</a>	BPMNode3	aimcpwd008.pbm.ihost.com	ND 8.0.0.3 BPMAPC 8.0.0.0	BPM.Messaging	➔
<input type="checkbox"/>	<a href="#">BPM.Support.BPMNode2.0</a>	BPMNode2	aimcpwd017.pbm.ihost.com	ND 8.0.0.3 BPMAPC 8.0.0.0	BPM.Support	➔
<input type="checkbox"/>	<a href="#">BPM.Support.BPMNode3.0</a>	BPMNode3	aimcpwd008.pbm.ihost.com	ND 8.0.0.3 BPMAPC 8.0.0.0	BPM.Support	➔
<input type="checkbox"/>	<a href="#">BPM.WebApp.BPMNode2.0</a>	BPMNode2	aimcpwd017.pbm.ihost.com	ND 8.0.0.3 BPMAPC 8.0.0.0	BPM.WebApp	➔
<input type="checkbox"/>	<a href="#">BPM.WebApp.BPMNode3.0</a>	BPMNode3	aimcpwd008.pbm.ihost.com	ND 8.0.0.3 BPMAPC 8.0.0.0	BPM.WebApp	➔
Total 8						

When logging in to a process center administrative console and navigating to **Servers > Server types > WebSphere application servers**, the view is very similar. This slide again shows that two nodes with four clusters have been deployed. Here the node names are **BPMNode2** and **BPMNode3**.

## Web server – process center

- Looks exactly the same for process server

The screenshot shows the 'Web servers' configuration page for 'webserv1'. The left sidebar contains a navigation tree with 'Web servers' highlighted. The main content area is divided into 'General Properties' and 'Configuration settings'. In the 'General Properties' section, the 'Port' field is highlighted with a red box and contains the value '80'. Other fields include 'Web server name' (webserv1), 'Type' (IBM HTTP Server), 'Web server installation location' (/opt/IBM/BPM/HTTPServer), and 'Configuration file name' (/opt/IBM/BPM/HTTPServer/conf/httpd). The 'Configuration settings' section includes links for 'Web Server Virtual Hosts', 'Global Directives', 'Log file', 'Configuration File', 'Plug-in properties', 'Remote Web server management', and 'Custom properties'. A 'Ports' table is visible at the bottom right.

Port Name	Port	Details
WEBSERVER_ADDRESS	80	
WEBSERVER_ADMIN_ADDRESS	8008	

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When logging in to a process center administrative console and navigating to **Servers > Server types > Web servers**, the HTTP server is shown. Note that port 80 is used (as was seen earlier when connecting the Integration Designer to the process center). The process server HTTP server view looks the same as this slide.

## Cluster topology – process center (process server the same)

The screenshot displays the IBM Business Process Management V8 Pattern Tools and Administrative Console. The left sidebar shows a navigation tree with 'Cluster topology' highlighted. The main content area displays the 'Cluster Topology' page, which shows a tree view of the cluster topology for 'Cell=A1MCPw0014Cell\_Profile=BPMPCtmgrNode'. The tree view shows a 'Cell' containing several clusters: BPM.Support, BPM.AppTarget, BPM.Messaging, and BPM.WebApp. Each cluster contains nodes and cluster members.

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When logging in to a process center administrative console and navigating to **Servers > Clusters > Cluster Topology**, the process center cluster topology is shown. The process server cluster topology looks very much the same, except the node names are different.

## Users – process center

- Process server has the same users

The screenshot shows the 'Manage Users' interface. On the left is a navigation tree with 'Manage Users' highlighted. The main area contains a search bar and a table of 8 users.

**Search for Users**

Search by: User ID | Search for: \* | Maximum results: 100

8 users matched the search criteria.

Select	User ID	First name	Last name	E-mail	Unique Name
<input type="checkbox"/>	bpmAuthor	bpmAuthor	bpmAuthor	uid=bpmAuthor,o=defaultWIMFileBasedRealm	
<input type="checkbox"/>	tw_admin	tw_admin	tw_admin	uid=tw_admin,o=defaultWIMFileBasedRealm	
<input type="checkbox"/>	tw_author	tw_author	tw_author	uid=tw_author,o=defaultWIMFileBasedRealm	
<input type="checkbox"/>	tw_portal_admin	tw_portal_admin	tw_portal_admin	uid=tw_portal_admin,o=defaultWIMFileBasedRealm	
<input type="checkbox"/>	tw_runtime_server	tw_runtime_server	tw_runtime_server	uid=tw_runtime_server,o=defaultWIMFileBasedRealm	
<input type="checkbox"/>	tw_user	tw_user	tw_user	uid=tw_user,o=defaultWIMFileBasedRealm	
<input type="checkbox"/>	tw_webservice	tw_webservice	tw_webservice	uid=tw_webservice,o=defaultWIMFileBasedRealm	
<input type="checkbox"/>	virtuser	virtuser	virtuser	uid=virtuser,o=defaultWIMFileBasedRealm	

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When logging in to a process center administrative console and navigating to **Users and Groups > Manage Users**, the default users created are displayed. Again, for the process server, the same default users are seen.

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