

This presentation will cover the maintenance of the BPM Pattern V8.0 in IBM PureApplication[®] System and IBM Workload Deployer.

	TEM
Table of contents	
 BPM Pattern V8.0 maintenance introduction 	
 Uploading emergency fixes 	
 Applying post-deployment emergency fixes 	
 Applying pre-deployment emergency fixes 	
2 IBM Business Process Manager Pattern V8.0 Maintenance	© 2012 IBM Corporation

The agenda is as on this slide.



This section of the presentation will introduce some maintenance topics as they relate to the BPM hypervisor edition.



From the workload console perspective, there are essentially two types of maintenance that can be applied, emergency fixes and service level updates.

Emergency fixes are interim fixes (ifixes) and fixpacks typically not requiring new images or patterns. These emergency fixes need to be uploaded as Emergency Fix objects into the catalog before they can be applied. For BPM, these emergency fixes are provided by IBM in Fix Central, and will be applied with the generic process used in Workload Deployer and PureApplication System, that is described in the upcoming slides.

Service level updates are fixpacks that typically do require a new image and possibly patterns. Each middleware product can have some variations of how these are uploaded to the catalog on the system. One can use HTTP to import a new virtual image with the virtual image import option. Some products may provide an installation script, similar to what was described in the BPM pattern presentation about installing the product.

At this time, BPM pattern service level updates are not provided by IBM. Since BPM is a stacked product, more work is required before IBM can provide a BPM upgrade package as a service level update. Instead IBM will provide a "BPM pattern fixpack" that will be applied as an emergency fix. Therefore it will need to be uploaded to the catalog just as with the emergency fixes already discussed. Additionally, users might be instructed to create a new image using the extend/capture process.



At another level, one needs to consider post-deployment maintenance and predeployment maintenance. That is, maintenance is typically required to be applied to all running instances affected by the maintenance (post-deployment), and to all new deployments (pre-deployment). This is true for all middleware products running in Workload Deployer or PureApplication System.

To apply maintenance to a running virtual system pattern (which BPM is), it is applied using the Service icon in the running virtual system instance, for both an emergency fix or a service level update. As always, clients do also have the option of manually applying maintenance to the running virtual machines, using appropriate tools per product, such as Installation Manager for WebSphere[®] for example.

To apply emergency fixes to be picked up by new deployments, the image extend / capture process is used. Service level updates are typically imported and then included with new deployments.

In either scenario, emergency fixes do need to be uploaded to the catalog before it can be applied using any of the methods mentioned so far.

More details of these three processes are provided later in this presentation.

A note that for virtual system patterns, at this time, there is no means to apply maintenance while initiating a deployment (which can be done for a virtual application pattern).



This section of the presentation will discuss how to upload emergency fixes to PureApplication System and Workload Deployer.

Navigate to Catalog > Em	ergency fixes
Click "+" to create a new E	mergency fix
In the pop-up, enter a free	-form name, and click OK – creates a "shell"
Catalog - Cloud -	Welcome Instances - Patterns - Catalog -
Reusable Components	Emergency Fixes
Virtual Application Templates	Search
Virtual Images	
Script Packages	•
Add-Ons	Describe the emergency fix you want to load into the catalog.
Emergency Fixes	Emergency fix name: AIMCP_JR42899
Database Workload Standards	Description: A detailed description
DB2 Fix Packs	

To upload an emergency fix, navigate to **Catalog**, and then to **Emergency fixes**. Click the "+" icon, and in the pop-up, provide the emergency fix name. Continue on the next slide.

		11
load emerge	ncy fix – Provide fix file – Step 2	
rowse to where you	downloaded the fix from Fix Central, and then click Upload	1
"Applicable to", in th	he Images field place cursor and select 1 or more images	the fix is applicable for
lugins field never rec	uired for BPM	
AIMCP_JR42899		
Description:	None provided	
Created on:	Aug 29, 2012 6:50:32 PM	
Updated on:	Aug 29, 2012 6:50:32 PM	
Emergency fix files:	Browse	
	Upload	
	There are no files for this script package.	
Access granted to:	deploy18 [owner]	
	Add more	
Severity:	Normal	
Applicable to:	Images: Add more	
	Add more	
Comments	There are no comments yet	
Emergency fix files:	Browse	
	Upload	
	The script package is in 8.0.0.0-WS-BSPACE-IFJR42899.zip.	ad

Click in the Browse field, navigate to where you have stored the fix from Fix Central on your local workstation, select that file, and click **Upload**. When the upload completes, then the **Applicable to** field for **Images** needs to be updated. Click in the **Images** field, and select all the images that the emergency fix is applicable to. See the next slide for more detail about this latter step.



Again, this slide shows what happens when you click in the Images field. All the images are displayed, and you must select one or more images this fix is applicable for.

Note that for the BPM pattern, you do not need to determine the Plugins applicable, as plug-ins are only used by virtual application patterns, and BPM is a virtual system pattern.

		IBM
Upload emer	gency fix – Auto-detects all instan	ces affected – Part 4
 All running insta their history upo 	ances using the applicable images identified or dated with a message stating "New fixes availa	n the previous slide will have ble"
You will not kno	w which fixes those are until you start the proc	ess of applying them; you will
then be present	ted with the list of available fixes	
History	New fixes available for this virtual system	
New fixes availa	ble for this virtual system	Aug 30, 2012 2:06:23 AM

After you complete the process of determining the images affected, Workload Deployer or PureApplication System will scan all running virtual system deployments, and for all running instances affected, place a message in those virtual systems' History section.



This section of the presentation will discuss how to apply emergency fixes to deployed BPM instances.

							TE	M
Apply en	nergenc	y fix to	o running in	stance – ini	itiate th	he proc	cess	
 Navigate to 	Instances	> Virtual	System Instance	s and select your	instance			
Click Servi	се							
 A pop-up w 	indow is pre	esented						
Welcome Instar	ces • Patterns •	Catalog •	Cloud - System -					
Virtual System Inst	ances	÷ /	AIMCP_BPM_LP_All_small_v10)2	🍫 Refresh	🕨 Start 🕘 Stop	Store 🕄 Service 🗙	Delete
Search		†↓	From pattern:	AIMCP_BPM_LP_All_small				^
AIMCP_BPM_LP_All_sma	ll_v102	^	Using Environment profile:	envProfile18				
Describe your	service request							
🗍 Sele	tt service level o	or fixes						
Prod	uct administrato	or user name	and password					
A sna	pshot will be ta	ken before a	pplying service.					
		0	KCancel					
12	IBM Business	Process Manag	er Pattern V8.0 Maintenance				© 2012 IBM Corp	poration

To apply an emergency fix to a running virtual system instance, navigate to the virtual system instance, and click the **Service** icon. A pop-up window is displayed, requesting three sets of information. See the next slide for details.

	IBM
Apply emergency fix to running	instance – populate service fields
 Default is to schedule service now – opti 	on to provide a specific time
 Click button for "Apply emergency fixes" – NOTE the option to apply a service left 	and select 1 or more fixes evel here
 Provide the root ID and its password 	Describe your service request.
Click OK	C Schedule service
Select service level or fixes	Select service level or fixes
O Move to service level	Product administrator user name and password
Apply emergency fixes	User name: root Password:
AIMCP_JR42899	A snapshot will be taken before applying service.
AUTOTEST-BPM-FIX2	OK Cancel
Current status: Z Applying s	service to the virtual system.
13 IBM Business Process Manager Pattern V8.0 Mainten	ance © 2012 IBM Corporation

First, schedule the service. The default is "now", but it can be scheduled for a future date. Then select the fixes or service level to be applied. As previously mentioned, the BPM pattern will initially not have any service level updates, so applying an emergency fix is the only valid option. All uploaded emergency fixes are displayed, and one or more can be selected to be applied. Then the administrator's user ID and password can be entered, although the default typically should be sufficient.

After clicking OK, the status for that running instance will change to "applying service to the virtual system."

ly emergency fi	x to running instance – (Completion
a a ananahat aa nart of	applying the five can Dectare (automat	ically if failure manually if require
is a snapshot as part of	applying the fix, can Restore (automat	ically if failure, manually if require
s a Service History secti	on; updates History section	
AIMCP_BPM_LP_All_small_v10	12	
Created on:	Aug 29, 2012 7:47:29 PM	
From pattern:	AIMCP_BPM_LP_All_small	
Using Environment profile:	envProfile18	
Deployment priority:	High	
Current status:	Virtual system is ready	
Updated on:	Aug 30, 2012 10:27:05 AM	
Deployment ID:	d-63fe9593-16dd-41ca-986f-ee57c3e19dea	
Access granted to:	deploy18 [owner]	
	Add more	
Snapshot:	A09 30, 2012 9:54:43 AM 🕷	
	Service snapshot generated	
	Recreate for update Restore	
History	Virtual system is ready	
Service history		
Virtual machines	8 total - 8 started	

Before the service is applied, a service snapshot of the running virtual system is taken. This allows the system to automatically back out the applied fix if the system detects a problem, or the fix can be manually backed out by restoring to the service snapshot.

A new Service history section is added to the running virtual system, and the History section is updated with information about the fix applied, as seen in the upcoming slides.

				IBM
Apply	y em	ergency fix to runr	ning instance – Service I	history
 Servi – P 	ice his Person	tory section provides info applying the fix, the date	rmation about fixes applied and time, the resulting status, a	nd the fix name itself
= 9	ervice	history		
		User name	Date and Time	Status
	-	deploy18	Aug 30, 2012 9:54:17 AM	 Service applied
		Emergency fix record	AIMCP_JR42899	
15		IBM Business Process Manager Pattern V8.0) Maintenance	© 2012 IBM Corporation

A Service history section is added or updated (if it is not the first fix applied) showing the user name, date / time the fix was applied, the status, and the fix applied.

pply emer	gency fix to running instance – His	story
History	Virtual system is ready	
Virtual system is read	ly	Aug 30, 2012 10:27:05 AM
Service applied on th	e virtual system	Aug 30, 2012 10:27:01 AM
Virtual machine servi	es started.	Aug 30, 2012 10:26:25 AM
Starting virtual mach	ne services after maintenance.	Aug 30, 2012 10:26:02 AM
Executing script pack	age AIMCP_JR42899 on virtual machine d5353a7a-95d2-44b7-b5e8-4b74ce4d9a	84 Aug 30, 2012 10:15:56 AM
Executing script pack	age AIMCP_JR42899 on virtual machine 1adb4c63-e9cd-4cc6-b4e9-e21f715a7fd1	Aug 30, 2012 10:06:08 AM
Executing script pack	age AIMCP_JR42899 on virtual machine 21820649-993a-46e1-af6a-a766a5d5c1e	ed Aug 30, 2012 10:05:57 AM
Executing script pack	age AIMCP_JR42899 on virtual machine 7c192b7a-4c15-41e6-bc55-360af1de155	6 Aug 30, 2012 10:05:45 AM
Executing script pack	age AIMCP_JR42899 on virtual machine 93fff886-c19c-4396-9a1a-4a3015a79c35	Aug 30, 2012 10:02:46 AM
Executing script pack	age AIMCP_JR42899 on virtual machine 82ea2c09-bc50-45ac-a690-c8692bfc385e	Aug 30, 2012 10:02:34 AM
Executing script pack	age AIMCP_JR42899 on virtual machine b9b8b2b9-8b62-43b0-a0ad-646b036b6e	Aug 30, 2012 10:02:22 AM
Executing script pack	age AIMCP_JR42899 on virtual machine 1e8dd140-3c72-4394-af46-01126e603aa	Aug 30, 2012 9:59:10 AM
Applying service to th	e virtual machine	Aug 30, 2012 9:59:09 AM
Service snapshot ger	erated 🛛	Aug 30, 2012 9:59:09 AM
Virtual system is read	ly .	Aug 30, 2012 9:59:09 AM
Snapshotting virtual	system	Aug 30, 2012 9:54:43 AM
Generating maintena	nce snapshot	Aug 30, 2012 9:54:43 AM
Virtual machine servi	es stopped for maintenance	Aug 30, 2012 9:54:43 AM
Stopping virtual mach	ine services for maintenance	Aug 30, 2012 9:54:20 AM
Applying service to th	e virtual system.	Aug 30, 2012 9:54:20 AM
New fixes available for	or this virtual system	Aug 30, 2012 2:06:23 AM

The History section shows many details about what transpires when a fix is applied. Briefly, it can be seen that the virtual machine services are stopped, the snapshot is taken, the script package containing the fix is run on all virtual machines, and the virtual machines are restarted.

Apply of 2) • View mai	emergency fix to	running instance	- PC IHS vir	tual m	achine	<u>BM</u> (1
Virtual	machines 8 total - 8	started				
	Name	CPU	Memory	SSH	Actions	
+	ipas-lpar-111-024-BPM PC DMGR-AIMCP_BPM_LP_All_smal	0% L_v102-8024	11%	Login	Manage	
	ipas-lpar-111-025-BPM PC IHS-AIMCP_BPM_LP_All_small_v	v102-8025	6%	Login	Manage	
	🗞 General information					
	Created on:	Aug 29, 2012 7:47:35 PM				
	From virtual image:	AIMCP_BPMv8_102				
	Part name:	BPM PC IHS				
	Current status:	🔽 Virtual machine has bee	n started			
17	IBM Business Process Manager F	attern V8.0 Maintenance			© 2012 IBM Co	rporation

To review the results of the actual application of the fix, you can review the logs of the script package run to apply the fix. In the case in this slide, you are looking at the results as they ran for the HTTP server for the BPM pattern.

Provide the set of	IB
 Fix runs as a script package View results in remote_std_out.log This applied fix was not applicable to the PC IHS virtual machine Script Packages B LMT Agent Install Package Aug 29, 2012 9:45:59 PM remote_std_out.log remote_std_err.log Couldburst_collect13462914 Execute now Aug 30, 2012 10:02:28 AM remote_std_out.log remote_std_out.log remote_std_out.log remote_std_out.log remote_std_err.log cloudburst_collect13462914 	achine (
 View results in remote_std_out.log This applied fix was not applicable to the PC IHS virtual machine Script Packages ILMT Agent Install Package Aug 29, 2012 9:45:59 PM remote_std_out.log remote_std_err.log Courter now Execute now Aug 30, 2012 10:02:28 AM remote_std_err.log remote_std_out.log remote_std_out.log remote_std_out.log remote_std_out.log remote_std_out.log remote_std_out.log remote_std_out.log remote_std_err.log Aug 30, 2012 10:02:28 AM remote_std_err.log remote_std_err.log remote_std_err.log remote_std_err.log 	
This applied fix was not applicable to the PC IHS virtual machine Script Packages ILMT Agent Install Package Aug 29, 2012 9:45:59 PM remote_std_out.log ILMT Agent Install Package Aug 29, 2012 9:50:36 PM remote_std_out.log ILMT Gather Logs Aug 29, 2012 9:50:36 PM remote_std_out.log Image: Execute now Image: I	
Script Packages ILMT Agent Install Package Must Gather Logs Aug 29, 2012 9:45:59 PM remote_std_out.log r	
ILMT Agent Install Package Aug 29, 2012 9:45:59 PM remote_std_out.log ILMT Agent Install Package Aug 29, 2012 9:50:36 PM remote_std_out.log Image: Imag	
Must Gather Logs Aug 29, 2012 9:50:36 PM remote_std_out.log remote_std_err.log douburst_collect1346291 Aug 30, 2012 10:02:28 AM remote_std_out.log remote_std_out.log remote_std_err.log remote_std_out.log28td > installAppService Entry No ifix need to apply < << installAppService Exit 	
Execute now Aug 30, 2012 10:02:28 AM remote_std_out.log remote_std_out.log28.bt 1 >> installAppService Entry 2 No ifix need to apply 3 << installAppService Exit 4	436188.zip
Aug 30, 2012 10:02:28 AM remote_std_out.log remote_std_out.log28.txt	
<pre>remote_std_out/og-28.txt 1 >> installAppService Entry 2 No ifix need to apply 3 << installAppService Exit 4</pre>	

As can be seen in the slide, the emergency fix name correlates to the script package name that ran. In viewing the "standard out log", it can be seen that the fix did not run on the HTTP server virtual machine. That is because the fix was not applicable to the HTTP server.



In viewing the emergency fix script package results for the deployment manager virtual machine, it can be seen that the fix was applied to this virtual machine. The "standard out log" provides details about the applied fix.



This section of the presentation will discuss how to apply fixes to the BPM virtual image effective for new deployments.

	IBM
Pre-deployment fixes - overview	
 Basically follows the extend and capture process 	
 Select the image and extend it 	
 Auto-generates and auto-deploys a pattern 	
 When pattern is deployed, apply service to the pattern 	
 Capture the image 	
 Create or clone new patterns or edit existing patterns to use this captured image fixes 	with the
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Briefly, the process to apply pre-deployment fixes is to extend the image (which autogenerates and auto-deploys a virtual system pattern with the image), apply service to the deployed instance, capture the image, and then create or clone new patterns with the captured image. The next set of slides provide more detail.

	IBM
Extend virtual image – Begin the process	
Navigate to Catalog > Virtual Images, select the image	
Click the Extend icon	
Pop-up for information displayed	
· · · · · · · · · · · · · · · · · · ·	
Wekome Instances • Patterns • Catalog • Cloud • System •	
Virtual Images 🗞 🔶 IBM Business Process Manager Advanced 8.0.0.0 R 🍫 Refresh 📫 Export 🗊 Clone 🔗 Extend 🔅 Capture	🔂 Lock 🗙 Delete
Search 11 - Description: IBM BPM Advanced 8.0.0.0	[
IBM Business Process Manager Advanced 8.0.0.0 RHEL 6 x64 (VMWare)	
A virtual system will be created that you can modify and capture as an image.	
Deployment configuration	
OK Cancel	
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To begin the process, navigate to **Catalog**, then to **Virtual Images**, and select the image to have the service applied to. When the image is displayed, click the **Extend** icon. This will present a pop-up requesting information, discussed on the next slide.

	and a data and	Line and Drawid				-l -		121
zxter	nd virtua	I Image – Provid	e r	e	quired field	ds		
Gener – N – V	ral Informatio lame of imag ′ersion of ima	n: e ge: propagated down to p	arts	in	a pattern using	the virtual image		
Typica – E	al deploymen nvironment p	t info required for any dep profile, cloud, IP group, pa	oloyn ssw	ner ord	nt (PureApplicat	ion System shown be	elow):	
Click	ОК							
🕏 Gen	eral informatio	n						
*	Name:	AIMCP_BPM_8.0.0.0_Exter	nded					
	Description:	Virtual image description	Ô	Dep	ployment configurat	ion		
*	Version:	1.2.3.4		*	IP version:	IPv4	~	
			1	*	Choose profile:	envProfile18	~	
				*	Choose cloud:	CloudGroupLarge	~	
				*	IP Group:	ipgroup18	~	
				*	Password:			
				*	Verify password:			
				_				
						ОК	Cancel	

The pop-up window requests two sets of information. The first set of info is for the extended image name and version number. You probably need to do some pre-planning on how you will use these version numbers, as they are used within Workload Deployer and PureApplication System in much the same way as IBM product version numbers are used. Then you are required to provide some deployment information for the virtual system pattern that the extend / capture process automatically generates and deploys. All the deployment fields are required, as shown in the slide.

ktend virtual imag	je – Completion	
MCP_BPM_8.0.0.0_Extended		💲 Refresh 🛯 🖆 Export 👘 Clone
Description:	None provided	
Created on:	Sep 5, 2012 1:34:18 PM	
Current status:	Ø Draft	
Updated on:	Sep 5, 2012 2:27:05 PM	
License agreement:	Sa Accepted	
Hypervisor type:	ESX	
Operating system:	RedHat Enterprise Linux 64-Bit, version	6 (RedHat Enterprise Linux 6)
Version:	1.2.3.4	
Image reference number:	bea201236.0	
Product IDs (e.g., 5724-X89):	5725-G76 (PVU license) 5725-C04 (PVU license) 5765-F41 (PVU license)	
Contains parts:	Process server custom nodes Process server deployment manager Process center custom nodes	[part product IDs] [part product IDs] [part product IDs]
	Process center deployment manager [show more]	[part product IDs]
Included in patterns:	AIMCP_BPM_8.0.0.0_Extended 1.2.3.4]
In the cloud now:	AIMCPBPM8.0.0.0Extended-1.2.3.4	
Access granted to:	Administrator [owner]	
	Add more	
Extended from:	IBM Business Process Manager Advance	ed 8.0.0.0 RHEL 6 x64 (VMWare) [compare]
• Hardware		
+ Comments	There are no comments yet	

While the extend process is running, do not interfere with the auto-deployed pattern.

When the extend process completes, the extended image will have a Draft status and the version you provided on the previous slide. Also the auto-generated pattern and auto-deployed virtual system instance are shown in the image.

		IB
xtend – A	uto-generated pattern	
	ato generated pattern	
Navigate to Pa	atterns, Virtual Systems, and select your auto-generated pattern	
AIMCP_BPM_8.0.0.0_Exten	ded_1.2.3.4 😵 Refresh 📚 Deploy 🥒 Edit 🗊 Clone 🙆 Lock 🗙 Dele	
Description:	None provided	
Created on:	Sep 5, 2012 1:34:31 PM	
Current status:	🐔 Read-only	
Updated on:	Sep 5, 2012 2:37:05 PM	
In the cloud now:	AIMCPBPM8.0.0.0Extended-1.2.3.4	
Access granted to:	Administrator [owner]	
	Add more	
Topology for this pattern:		
Deploys to ESX hypervisors	L.	
This pattern requires to complete the pattern	he following parts: process server deployment manager, process server custom nodes, and process server database; add any missing parts n.	
	1 de Process server custom nodes 1.2.3.4 de	
Comments	There are no comments yet	
1	BM Business Process Manager Pattern V8.0 Maintenance	© 2012 IBM Corpora

This slide shows an example of the auto-generated pattern created as part of the **Extend** process for the BPM image. As can be seen, the pattern contains only one custom node part, which is sufficient for this process. The custom node part defaults to the version you provided on a previous slide. The warning message about the missing parts can be ignored in this case.

xtend – Auto-de	enloved pat	tern					
Navigate to Instance	es, Virtual Syst	em Instances,	and sele	ect the a	uto-c	leployed i	nstanc
		A		-			
MCPBPM8.0.0.0Extended-1.2. Created on:	3.4 Sep 5, 2012 1:34:34	% Refrest 4 PM	n 👂 Start	Stop	Store	e 📲 Service	X Dele
From pattern:	AIMCP_BPM_8.0.0.0	_Extended 1.2.3.4					
Using Environment profile:	None provided						
Current status:	The virtual system has been deployed						
Jpdated on:	Sep 5, 2012 2:27:08	B PM					
Access granted to:	Administrator (owne	er]					
	Add more						
Snapshot:	(none)						
	Create						
+ History	The virtual system ha	as been deployed					
 Virtual machines 	1 total - 1 started						
Name	CPU	Memory	SSH	Actions		Group Actions	
		220/	Logia	Managa			

This slide shows an example of the auto-deployed pattern created as part of the **Extend** process for the BPM image. As can be seen it looks very much like any deployment of a virtual system pattern.

xtend – Upda	ate fix as applicable to new extended image
avigate to Catal	og, Emergency Fixes, and select your emergency fix
Jpdate the Applic	able to field with the new extended image
P_JR42899	😵 Refresh 🗙 Delet
scription:	None provided
eated on:	Sep 5, 2012 1:09:49 PM
dated on:	Sep 5, 2012 1:11:42 PM
ergency fix files:	Browse
	Upload
	The script package is in 8.0.0.0-WS-BSPACE-IFJR42899.zip.
cess granted to:	Administrator [owner]
	Add more
verity:	Normal
plicable to:	Images: IBM Business Process Manager Advanced 8.0.0.0 RHEL 6 x64 (VMWare), RedHat Enterprise Linux 64-Bit (RedHat Enterprise Linux 6) [remove]
	AIMCP_BPM_8.0.0.0_Extended, RedHat Enterprise Linux 64-Bit (RedHat Enterprise Linux 6) [remove]

Before applying service to the auto-deployed pattern, you need to update the emergency fix information in the catalog with the new extended image that it is applicable for. Navigate to **Catalog**, then **Emergency Fixes**, select the extended image, and update the **Applicable to** field with the new extend image name.



Now you are ready to apply service to the auto-deployed virtual system pattern containing the new extended image. To do so, use the exact same process as was previously described for the post-deployment process of applying fixes, by using the **Service** icon in the running instance of the pattern. Then wait for the application of the service to complete, and confirm using the script package results that the service was applied successfully.

IMCP_BPM_8.0.0.0_Extended	🍫 Refresh 🖆 Export 🗊 Clone 💮 Extend 🔂 Capture 🔓 Lock 🗙 Delet
Description:	None provided
Created on:	Sep 5, 2012 1:34:18 PM
Current status:	🖉 Draft
AIMCP_BPM_8.0.0.0_Extended	Sefresh 🖉 Export 🗊 Clone 🛞 Extend 😪 Capture 🔒 Lock 🗙 Delete
AIMCP_BPM_8.0.0.0_Extended Description:	Sefresh
AIMCP_BPM_8.0.0.0_Extended Description: Created on:	Sep 5, 2012 1:34:18 PM

If the service was applied successfully on the previous slide, then you are ready to capture the new extended image back into the catalog. To do so, navigate to Catalog, Virtual Images, and select the extended image. When the extended image is displayed, click the **Capture** icon. On the confirmation pop-up, click **OK**. This will queue the capture process, which can take some time to complete.

apture – Complete	ed capture	
Description:	None provided	S Refresh 22 Export Clo
Created on:	Sep 5, 2012 1/24/18 PM	
created on:	5ep 5, 2012 1.54.10 PM	
Current status:	Virtual image has been captured. Yo	bu can recapture it or set as read-only.
Updated on:	Sep 5, 2012 4:01:27 PM	
License agreement:	Real Accepted	
Hypervisor type:	ESX	
Operating system:	RedHat Enterprise Linux 64-Bit, version	6 (RedHat Enterprise Linux 6)
Version:	1.2.3.4	
Image reference number:	bea201236.0	
Product IDs (e.g., 5724-X89):	5725-G76 (PVU license) 5725-C04 (PVU license) 5765-F41 (PVU license)	
	Process server custom nodes	[part product IDs]
	Process server deployment manager	[part product IDs]
Contains parts:	Process center custom nodes	[part product IDs]
	Process center deployment manager	[part product IDs]
Included in patterns:	AIMCP_BPM_8.0.0.0_Extended 1.2.3.4	
In the cloud now:	AIMCPBPM8.0.0.0Extended-1.2.3.4	
Access granted to:	Administrator [owner]	
	Add more	
Extended from:	IBM Business Process Manager Advance	ed 8.0.0.0 RHEL 6 x64 (VMWare) [compare]
• Hardware		
Service history		
El Commente		

When the capture process completes, the auto-deployed pattern will have a status of "Virtual image has been captured..." There is a field called **Extended from**, which tells you the image the new captured image was originally extended from, along with a **compare** link to compare the two images. Additionally the service history is updated, as shown on the next slide.

Ca	pture	– Service history ir	n auto-deployed pattern		IBM
-	Service	history			
		User name	Date and Time		Status
	-	cbadmin	Sep 5, 2012 3:15:20 PM	•	Service applied
		Emergency fix record	AIMCP_JR42899		
31		IBM Business Process Manager Pattern V8.	0 Maintenance		© 2012 IBM Corporation

Again, the Service history is updated with the fix that was applied to the extended image.

BPM Advanced Clust	ered Pattern 8.0.0.0	🐁 Refresh 📚 Deploy 🥒 Edit 📴 Clone 🔒 Lock 🗙 Delet
Describe the pattern y	ou want to add.	an instance of IBM BPM process center and an instance a process center, containing remote messaging, remote s on multiple virtual machines. This pattern typically ne environment for a team to develop and run business the applications for testing and staging purposes,
Name:	Copy of BPM Advanced Clustered Pattern 8.0.	uirements of the applications.
Description:	BPM Advanced Clustered Pattern provides an	i.
Virtual image:	 IBM Business Process Manager Advanced 8.0.0.0 RHEL 6 x64 (VMWare) 8.0.0.0, ESX, RedHat Enterprise Linux 64-Bit 6 (RedHat Enterprise Linux 6) BPM 8.0.0.0 Extended 	
	01, ESX, RedHat Enterprise Linux 64-Bit 6 (RedHat Enterprise Linux 6) (AIMCP_BPM_8.0.0.0_Extended 1.2.3.4, ESX, RedHat Enterprise Linux 64-Bit 6 (RedHat Enterprise Linux 6)	
	OK Cance	

To deploy a new running instance of the virtual system with the extended and captured image with the maintenance, first clone the original pattern used. In the clone pop-up, all the images available to you for this pattern are displayed. By default, the image used in the original pattern is automatically selected. In this case, select the image that you just completed going through the extend / capture process for. This image will then be used for this deployment.



Additionally, when in the virtual system pattern editor, each part will now include your new version number of the image that you extended and captured. Here you have another opportunity to modify the pattern to move from the old image to the new one you just created with the maintenance applied.

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