



IBM Software Group

IBM WebSphere CloudBurst Appliance V1.1

Virtual images



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Updated December 1, 2009

This presentation describes the WebSphere® Application Server Hypervisor Edition virtual images that are provided with the IBM® WebSphere CloudBurst™ Appliance V1.1.

Agenda

- Virtual image overview
- PowerVM™ virtual images



The first section of this presentation gives a short overview of the new virtual images provided with the V1.1 release of WebSphere CloudBurst. The second section describes the PowerVM virtual images.

Section

Virtual image overview



This section describes the WebSphere Application Server Hypervisor Edition virtual images that are available with WebSphere CloudBurst V1.1.

Virtual image overview

- WebSphere Application Server Hypervisor Edition virtual images are available for VMware ESX and PowerVM
 - ▶ All images contain the operating system, the application server and related software
 - ▶ Images are available for download through Passport Advantage®
- Images for VMware ESX have similar structure to the previous release:
 - ▶ SUSE Linux® Enterprise Server 10.2
 - ▶ WebSphere Application Server Hypervisor Edition with updated fix packs (V6.1.0.27 and V7.0.0.7)



WebSphere Application Server Hypervisor Edition virtual images are platform specific – they contain the operating system and the application server binaries for use with that operating system. Separate virtual images are provided for use with VMware ESX hypervisors and PowerVM hypervisors. All virtual images are available for download through Passport Advantage. The VMware ESX virtual images are built using SUSE Linux Enterprise Server 10.2. This release includes updated fix pack levels – for V6.1, the default images have fix pack 27, and for V7, the default image has Fix Pack 7. The next several pages provide details about the PowerVM virtual images.

Section

PowerVM virtual images



This section describes the WebSphere Application Server Hypervisor Edition virtual images for use with PowerVM hypervisors.

Virtual images for PowerVM

- Only WebSphere CloudBurst can provision the PowerVM images
 - ▶ These images cannot be used outside of the appliance
- Import PowerVM images to the appliance and deploy patterns based on the images
 - ▶ Behaves the same way as the ESX images
- There are three images available:
 - ▶ WebSphere Application Server Hypervisor Edition V6.1.0.27
 - ▶ WebSphere Application Server Hypervisor Edition V6.1.0.27 with Feature Packs
 - ▶ WebSphere Application Server Hypervisor Edition V7.0.0.7



The PowerVM virtual images are designed for use with WebSphere CloudBurst only. Unlike the VMware ESX images, PowerVM images can only be provisioned by the appliance. In all other ways, PowerVM images behave in a similar fashion to the ESX images; they can be imported into the appliance and deployed using standard WebSphere CloudBurst administrative tools. The same WebSphere Application Server versions are available for both hypervisor platforms – V6.1.0.27, V6.1.0.27 with Feature Packs, and V7.0.0.7.

PowerVM image for V6.1

- The PowerVM virtual image for WebSphere Application Server Hypervisor Edition V6.1 contains:
 - ▶ AIX® 6.1 64-bit operating system
 - ▶ IBM WebSphere Application Server Version 6.1 64-bit
 - ▶ IBM HTTP Server for WebSphere Application Server Version 6.1
 - ▶ IBM HTTP Server Plug-in for WebSphere Application Server Version 6.1
 - ▶ IBM Update Installer for WebSphere Application Server Version 7.0
 - ▶ IBM Support Assistant Lite



WebSphere Application Server Hypervisor Edition virtual images contain the operating system, the application server, and related software. All PowerVM virtual images are built using 64-bit AIX 6.1.3 and 64-bit WebSphere Application Server binaries. In addition, the V6.1 virtual image contains the V6.1 HTTP server and plug-in, the WebSphere Update Installer, and IBM Support Assistant Lite.

PowerVM image for V6.1 with Feature Packs

- The PowerVM virtual image V6.1 with Feature Packs has the same content as the V6.1 image, along with:
 - ▶ Feature Pack for EJB™ 3.0
 - ▶ Feature Pack for Web Services
 - ▶ Feature Pack for Web 2.0
- WebSphere Application Server profiles in the WebSphere Cloudburst Appliance patterns are augmented with EJB 3.0 and Web services feature packs



In addition to the content included in the V6.1 virtual image for PowerVM, the image for feature packs contains the Feature Pack for EJB 3.0, the Feature Pack for Web Services, and the Feature Pack for Web 2.0. When deploying patterns based on this image, WebSphere Application Server will have all three feature packs installed. All of the WebSphere Application Server profiles that get created based on this virtual image are augmented with both the EJB 3.0 and Web services feature packs. The Feature Pack for Web 2.0 does not require profile augmentation; once the feature pack is installed, the binaries are available to all servers.

PowerVM image for V7.0

- WebSphere Application Server Hypervisor Edition 7.0 with Optional Feature Packs contains:
 - ▶ AIX 6.1 64-bit operating system
 - ▶ WebSphere Application Server Version 7.0 64-bit
 - ▶ Feature Pack for SCA
 - ▶ Feature Pack for Web 2.0
 - ▶ IBM HTTP Server for WebSphere Application Server V7.0
 - ▶ IBM HTTP Server Plug-in for WebSphere Application Server V7.0
 - ▶ IBM Update Installer for WebSphere Application Server V7.0
 - ▶ IBM Support Assistant Lite
- When deploying patterns, profiles can be optionally augmented with the Feature Pack for SCA



Like the V6.1 virtual images, the PowerVM virtual image for V7 is also built on 64-bit AIX 6.1.3 and the 64-bit WebSphere Application Server binaries. The feature packs included in this image are Web 2.0 and SCA. The Feature Pack for Web 2.0 is always installed and available; WebSphere Application Server profiles can optionally be augmented with the Feature Pack for SCA. The V7 virtual image also contains the HTTP server and plug-in, the update installer, and IBM Support Assistant Lite.

PowerVM image structure

- Use the command-line interface through SSH to access the operating system; X server package not installed
- Installation directories for products in the image:

Product	Installation directory
IBM WebSphere Application Server	/opt/IBM/WebSphere/AppServer
IBM WebSphere Application Server profiles	/opt/IBM/WebSphere/Profiles
IBM HTTP Server for WebSphere Application Server	/opt/IBM/HTTPServer
IBM HTTP Server Plug-in for WebSphere Application Server	/opt/IBM/HTTPServer/Plugin
IBM Update Installer for WebSphere Application Server	/opt/IBM/WebSphere/AppServer/UpdateInstaller
IBM Support Assistant Lite	/opt/IBM/WebSphere/AppServer/ISA/ISALite



The AIX operating system included in the virtual images does not have any X server packages installed. You need to use the command-line interface through SSH to access the operating system; the VNC interface is not available from the WebSphere CloudBurst administrative console. The installation directories for the application server, application server profiles, HTTP server and plug-in, update installer, and IBM Support Assistant are provided here for your reference.

Section

Summary



This section provides a summary of this presentation.

Summary

- VMware ESX virtual images have been updated to new application server fix pack levels
- New PowerVM images are available
 - ▶ Can only be provisioned by WebSphere CloudBurst



IBM WebSphere CloudBurst Appliance V1.1 comes with updated virtual images for WebSphere Application Server Hypervisor Edition. The VMware ESX images have been updated to include new application server fix pack levels. Three new images are provided for PowerVM hypervisors; these images can only be provisioned with the WebSphere CloudBurst Appliance.

Reference

- WebSphere Application Server Hypervisor Edition main page
 - ▶ <http://www.ibm.com/software/webservers/appserv/hypervisor/>
- WebSphere Application Server Hypervisor Edition Information Centers
 - ▶ <http://publib.boulder.ibm.com/infocenter/wasinfo/v6r1/index.jsp>
 - ▶ <http://publib.boulder.ibm.com/infocenter/wasinfo/v7r0/index.jsp>



This section provides references for WebSphere Application Server Hypervisor Edition.

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