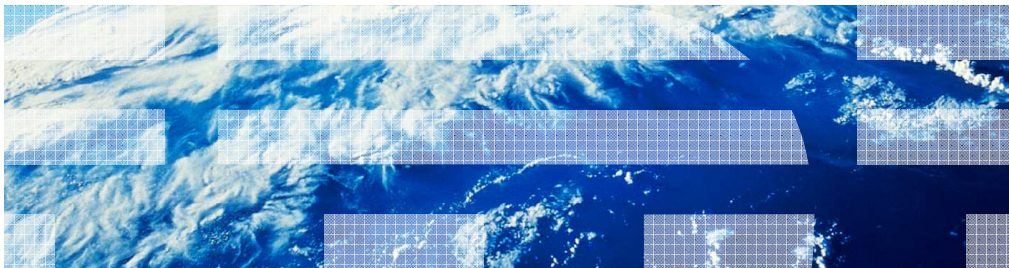


IBM WebSphere CloudBurst Appliance V2.0

Virtual images



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

Agenda

- Virtual image overview
- Virtual images

The first section of this presentation gives a short overview of the virtual images provided with the V2.0 release of WebSphere CloudBurst. The second section describes the various images in detail.

Section

Virtual image overview

This section describes the WebSphere Application Server Hypervisor Edition virtual images that are available with WebSphere CloudBurst V2.0.

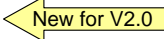
Virtual image overview

- WebSphere Application Server Hypervisor Edition virtual images are available for VMware ESX, PowerVM™ and z/VM
 - All images contain the operating system, the application server and related software
 - Images are available for download through Passport Advantage®
- Preinstalled in the appliance catalog for IBM WebSphere CloudBurst V2.0:
 - VMware ESX and PowerVM
 - IBM WebSphere Application Server Hypervisor Edition 6.1.0.31
 - IBM WebSphere Application Server Hypervisor Edition 6.1.0.31 (Feature Packs)
 - VMware ESX, PowerVM and z/VM
 - IBM WebSphere Application Server Hypervisor Edition 7.0.0.11
 - IBM WebSphere Application Server Hypervisor Edition Intelligent Management Pack 6.1.1 (WebSphere Application Server V7.0.0.11)
 - DB2® Enterprise 9.7.0.0 database server, 90-day trial

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, PowerVM hypervisors and z/VM hypervisors. All virtual images are available for download through Passport Advantage.

The IBM WebSphere CloudBurst appliance includes some virtual images preinstalled in the appliance catalog. These include both the IBM WebSphere Application Server Hypervisor Edition 6.1.0.31 and the IBM WebSphere Application Server Hypervisor Edition 7.0.0.11. The 6.1.0.31 version is available only for VMware ESX and PowerVM and has an edition that includes feature packs. The IBM WebSphere Application Server Hypervisor Edition 7.0.0.11 and the DB2 Enterprise 9.7 database server virtual images are available on all platforms. Also included for all platforms at the 7.0.0.11 level is a virtual image that contains the Intelligent Management Pack 6.1.1.

Virtual image overview, operating systems

- VMware ESX
 - RedHat Linux® 5.5 Enterprise server (32-bit) 
 - Only available for the 7.0.0.11 hypervisor editions
 - Novell SUSE Linux Enterprise Server 11 (32-bit)
- PowerVM
 - AIX® 6.1.3 (64-bit)
- z/VM
 - Novell SUSE Linux Enterprise Server 11 for 390 (64-bit)

As noted on the previous slide, the virtual images contain the operating system. For VMware, this is either RedHat Linux 5.5 Enterprise server or Novell SUSE Linux Enterprise Server 11. Both of these operating systems are 32-bit. You will note that RedHat is new for IBM WebSphere CloudBurst V2.0. Before this release, using RedHat was a manual process as it was not built into a virtual image. A RedHat virtual image is now provided for the VMware ESX 7.0.0.11 hypervisor editions of WebSphere Application Server. PowerVM virtual images are built on the 64-bit version of AIX 6.1.3. Finally, z/VM hypervisor editions are built with the 64-bit version of Novell SUSE Linux Enterprise Server 11 for 390.

Section

Virtual images

This section describes the WebSphere Application Server Hypervisor Edition virtual images in more detail.

WebSphere Application Server Hypervisor Edition V6.1

- Virtual image for WebSphere Application Server Hypervisor Edition V6.1 contains:
 - Appropriate operating system
 - IBM WebSphere Application Server Version 6.1.0.31
 - 64-bit (PowerVM)
 - 32-bit (VMware ESX)
 - IBM HTTP Server for WebSphere Application Server Version 6.1.0.31
 - IBM HTTP Server Plug-in for WebSphere Application Server Version 6.1.0.31
 - IBM Update Installer for WebSphere software 1.3.4.1.
 - IBM Support Assistant Lite for WebSphere Application Server 1.3.38

WebSphere Application Server Hypervisor Edition virtual images contain the operating system, the application server, and related software. The operating systems included in the virtual images were shown on a previous slide. While the VMware ESX WebSphere Application Server images are built with 32-bit binaries, all PowerVM WebSphere Application Server images are built with 64-bit binaries. The V6.1 virtual images also contain the V6.1 HTTP server and plug-in, the WebSphere Update Installer, and the IBM Support Assistant Lite.



WebSphere Application Server Hypervisor Edition V6.1 with Feature Packs

- Same content as the V6.1 image, along with:
 - EJB 3.0 Feature Pack 6.1.0.31
 - Web Services Feature Pack 6.1.0.31
 - Web 2.0 Feature Pack
- 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, the image for feature packs contains the EJB 3.0 Feature Pack, the Web Services Feature Pack, and the Web 2.0 Feature Pack. 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 Feature Pack and the Web services Feature Pack. The Web 2.0 Feature Pack does not require profile augmentation; once the feature pack is installed, the binaries are available to all servers.



WebSphere Application Server Hypervisor Edition V7.0

- Virtual image for WebSphere Application Server Hypervisor Edition V7.0 contains:
 - Appropriate operating system
 - IBM WebSphere Application Server Version 7.0.0.11
 - 64-bit (PowerVM and z/VM)
 - 32-bit (VMware ESX)
 - IBM HTTP Server for WebSphere Application Server Version 7.0.0.11
 - IBM HTTP Server Plug-in for WebSphere Application Server Version 7.0.0.11
 - IBM Update Installer for WebSphere software 1.3.4.1.
 - IBM Support Assistant Lite for WebSphere Application Server 1.3.38

 - Feature Packs
 - SCA Feature Pack 1.0.1.3
 - CEA Feature Pack 1.0.0.3
 - XML Feature Pack 1.0.0.5
 - SDO Feature Pack 1.0.1.3

 - Intelligent Management Pack 6.1.1.2
 - Requires a separate license to be enabled

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Virtual images

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Like the V6.1 virtual images, the virtual image for V7 is also built on 32-bit WebSphere Application Server binaries for VMware ESX and 64-bit WebSphere Application Server binaries for PowerVM. With V7, there is also a z/VM version available which is also built on the 64-bit WebSphere Application Server binaries. Again included in the virtual image are the IBM HTTP server, the IBM HTTP Server Plug-in and the IBM Support Assistant Lite. The feature packs listed on the slide are also now included in the V7 virtual image. When creating or deploying patterns from this image you can choose to augment the profiles with the feature packs listed on the slide. These feature packs include SCA, CEA, XML and SDO. Also included in the V7 virtual image is the Intelligent Management Pack. This function needs to be enabled separately in the virtual image however, as it requires an additional license.

Image structure

- Use the command-line interface through SSH to access the operating system
- 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

In order to access the operating system once a virtual image is deployed, you can use the command-line interface through SSH. 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, PowerVM and z/VM virtual images are available for WebSphere CloudBurst

IBM WebSphere CloudBurst Appliance V2.0 comes with virtual images for VMware ESX, PowerVM and z/VM. You saw details in this presentation of what these images contain.

Reference

- WebSphere Application Server Hypervisor Edition main page
 - <http://www.ibm.com/software/webservers/appserv/hypervisor/>
- WebSphere Application Server Hypervisor Edition Information Center
 - http://publib.boulder.ibm.com/infocenter/wasinfo/v7r0/topic/com.ibm.websphere.virtualimages.doc/info/ae/ae/welcome_virtual.html

This section provides references for WebSphere Application Server Hypervisor Edition.



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