IBM WebSphere CloudBurst Appliance

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Highlights

- *Speed application deployment and dramatically reduce setup time for IBM WebSphere® environments from weeks to minutes with pre-defined patterns and virtual images.*

- *Improve efficiency with pre-loaded* WebSphere Application Server Hypervisor Edition *virtual images optimized to run in VMware ESX, ESXi server virtualization environments.*

- *Simplify maintenance and management through a self-service management console.*

- *Maximize reuse of resources in a private cloud by automatically returning them to the shared resource pool upon completion.*

- *Gain insight into cloud resource utilization and charge back departments with management reports that track usage of physical and virtual systems.*

- *Obtain optimal efficiency rates and govern usage with fine-grained access control for images, patterns and virtual systems.*

- *Achieve higher levels of server consolidation and faster response times by optimizing resource utilization through intelligent placement algorithms based on hypervisor performance and cloud activity.*

- *Benefit from incorporation of more than 10 years of IBM software management best practices for cost-effective, rapid and repeatable application deployment.*

- *Remove errors and reduce risk in development and test with pre-defined patterns.*

- *Ensure security of data and environments with a physical appliance that serves as an encrypted vault.*

- *Fully integrate with development and service management tools from IBM Rational® software and IBM Tivol® software for end-to-end support.*

- *Access* IBM Implementation Services for Cloud Computing *for WebSphere CloudBurst Appliance quick start.*

WebSphere® software

Organizations are facing a complexity and affordability crisis. Costs to manage and power operations can exceed the cost of the hardware and software itself. Fortunately, the world is becoming smarter—instrumented, interconnected and intelligent.

A Smarter Planet™ is about working smarter—transforming our organizations to take advantage of the capabilities of a Smarter Planet to enable more informed decision making, deeper relationships and business processes that are more agile and efficient. To support smart work, businesses need a SMART SOA™ foundation that is robust and scalable, flexible, and delivers rapid implementation.

Today businesses are extending service oriented architecture (SOA) by applying it to cloud services, making their deployments even more flexible and easy to use. Most importantly, by extending SOA to increasingly popular private clouds, organizations can realize both the economic benefits of a virtualized infrastructure managed as a single resource, and the security of the private cloud that is behind the corporate firewall.

IBM WebSphere CloudBurst Appliance empowers developers, IT and operations managers to intelligently deploy and manage their SOA foundation in private cloud computing environments to lower costs and rapidly roll out new applications and services. This new hardware appliance provides access to software virtual images and patterns that can be used as is or easily customized and then securely deployed and managed in a private cloud. Combined with WebSphere Application Server Hypervisor Edition, these intelligent management solutions enable organizations to easily, quickly, and repeatedly create application environments that can be published and managed in a private cloud. Organizations can seamlessly extend their investment in SOA into a cloud services environment.

The first hardware appliance of its kind, WebSphere CloudBurst Appliance stores and secures WebSphere Application Server Hypervisor Edition virtual images and patterns to be dispensed into a cloud. WebSphere CloudBurst Appliance helps customers easily and quickly develop, test and deploy business applications, ending the use of manual, complex or time-intensive processes associated with creating application environments. Once finished, resources are automatically returned to the shared resource pool and logged for internal charge-back purposes. WebSphere CloudBurst Appliance also manages individual user and group access, giving IT managers the right kind of access controls with optimal efficiency rates.

WebSphere CloudBurst Appliance incorporates more than 10 years of management best practices for cost-effective, rapid, and repeatable application deployment and fully integrates with development and service management tools from IBM Rational and IBM Tivoli brands for a seamless end-to-end process. IBM provides a comprehensive set of Implementation Services for Cloud Computing to help you quickly take full advantage of WebSphere CloudBurst Appliance and WebSphere Application Server Hypervisor Edition.

WebSphere CloudBurst Appliance is targeted for private or on-premise cloud computing environments. It can also be used by service providers providing hosted public clouds and software-as-a-service environments to simplify and standardize repeated deployments. It is part of a powerful and comprehensive set of cloud computing and virtualization solutions for intelligently deploying and managing SOA applications, services and environments to achieve smarter business outcomes. These solutions deliver robustness and agility to enable applications to adapt to changing market conditions while lowering costs.

Features	Benefits
Securely deploy, manage and maintain application environments in a private cloud	Lower hardware, power, and cooling costs by utilizing shared virtualized infrastructure and driving higher hardware utilization rates in a private cloud
Pre-defined patterns (such as, WebSphere application environments) based on more than 10 years of IBM software management best practices	• Rapid, and repeatable application deployment • Lower development and deployment costs by ending the use of manual, complex and time-intensive processes associated with creating application environments • Reduce risk • Streamlines resources and time dedicated to WebSphere environment configuration and administration
Customize patterns to meet your specific needs	• Increase agility • Enhance repeatability and lower the potential for costly errors
Pre-loaded WebSphere Application Server Hypervisor Edition 6.1 and 7.0 virtual images	• Running systems available in VMware ESX environment in minutes • Lower installation, administration and maintenance costs
"Lock" images, patterns, and even specific parameters (such as, memory size = 1024)	Ensure identical, repeated deployments
Intelligent placement algorithms based on hypervisor performance and cloud activity	Achieve higher levels of server consolidation by optimizing resource utilization
Management reports that track usage by users and groups	Accurately charge back departments
• Self-service virtual system management console • Sets up and tears down WebSphere environments based on user-input times at the click of a button • Apply updates to images and patterns once and republish for broader user access	• Running systems available within minutes • Simplified administration and management • Frees developers to focus on development and testers on testing
Schedule deployment of patterns and automatically return them to shared resource pool upon completion	Maximize reuse of resources
Manage individual user and group access	Optimize efficiency rates
• Appliance serves as an encrypted vault where images, patterns and permissions are stored • Appliance has a self-disabling switch which is triggered if the appliance cover is removed • Provides granular access controls, allowing administrators to restrict visibility, pattern creation privileges and deployment rights to individuals and groups • Integrates with existing LDAP directories to tie into existing access control lists • Passwords for virtual systems deployed are set at the time of deployment, guaranteeing root access only to credentialed parties	Security through the entire infrastructure lifecycle
REST APIs allow for standards-based integration into existing data center management software, including Tivoli	Seamless integration into management tools including Tivoli software
Virtual image customization to include binaries for monitors and corporate governance agents	• Ensure compliance • Easily integrate with monitoring tools for optimal performance
Drag and drop tooling for assembling virtual images, scripts and topologies into customized patterns	Easily customize pre-defined patterns to meet customer needs

For more information

To learn more about IBM WebSphere
CloudBurst Appliance, please
contact your IBM representative or
IBM Business Partner, or visit
ibm.com/cloudburst

Recyclable, please recycle.

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