



IBM PowerVM V2.2 refresh includes new function

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Overview

The previously announced IBM® PowerVM® , which delivers industrial-strength virtualization for IBM AIX® , IBM i, and Linux™ environments on IBM POWER® processor-based systems, has been enhanced with the following:

- Shared Storage Pools now allow up to 16 systems to share a common pool of preallocated storage. Shared Storage Pools are able to provide quick provisioning and efficient storage utilization for virtualized IBM Power Systems™ workloads. Shared Storage Pools technology can simplify server and storage administration, reduce SAN infrastructure, and provide a framework that allows for easier movement of live workloads across Power® frames.
- New VIOS Performance Advisor analyzes VIOS performance and makes recommendations for performance optimization.
- PowerVM has the following new advanced features enabled by VMControl that accelerate VM deployment, optimize storage utilization, and improve availability through automation.
 - Linked clones allow for sharing of VM images, which greatly accelerates VM deployment and reduces the storage usage.
 - System pool management for IBM i workloads provides increased flexibility and resource utilization

For further details about the appropriate Systems Director VMControl™ release, visit

<http://www.ibm.com/systems/software/director/vmcontrol/>

- PowerVM will now support 20 VMs per core, which doubles the number of VMs supported per core. Customer value includes improved density and server consolidation.
- Usability improvements include the following:
 - Improved console usability now automatically issues appropriate VIOS commands during Dynamic LPAR changes initiated from the HMC. This reduces the complexity and time to complete a dynamic change to a VM.
 - Improved VIOS setup, tuning, and validation using the Runtime Expert.
- Live Partition Mobility (LPM) improvements include:
 - IBM PowerVM and the Hardware Management Console now support up to 16 concurrent LPM activities. Improvements in single-session LPM performance can accelerate mobility for a single session by up to 3X over previous releases.
 - Improved control for Live Partition Mobility NPIV configurations, which allows specification of the destination Fibre Channel port. This allows the desired Fibre Channel port to be used automatically once the partition mobility completes.

New customers will receive the latest updates automatically upon ordering.

For ordering, contact your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL (Reference: RE001).

Planned availability date

November 9, 2012

Description

Power Systems servers coupled with PowerVM technology are designed to help clients build a dynamic infrastructure, reducing costs, managing risk, and improving service levels.

IBM PowerVM V2.2 contains the following enhancements:

- Shared Storage Pools create pools of storage for virtualized workloads, and can improve storage utilization, simplify administration, and reduce SAN infrastructure costs. The enhanced capabilities enable 16 systems to participate in a Shared Storage Pool configuration, which can improve efficiency, agility, scalability, flexibility, and availability.
 - Shared Storage Pools flexibility and availability improvements include:
 - IPv6 and VLAN tagging (IEEE 802.1Q) support for intermodal shared storage pools communication
 - Cluster reliability and availability improvements
 - Improved storage utilization statistics and reportings
 - Nondisruptive rolling upgrades for applying service
 - Advanced features that accelerate VM deployment, optimize storage utilization, and improve availability through automation
- New VIOS Performance Advisor analyzes VIOS performance, and makes recommendations for performance optimization.
- PowerVM has the following new advanced features enabled by VMControl that accelerate VM deployment, optimize storage utilization and improve availability through automation.
 - Linked clones allow for sharing of VM images, which greatly accelerates VM deployment and reduces the storage usage.
 - System pool management for IBM i workloads provides increased flexibility and resource utilization

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- PowerVM will now support 20 VMs per core, which doubles the number of VMs supported per core. This provides additional flexibility, which now allows CPU entitlements as little as 5% of a core.
- Virtualization support for a dedicated Fibre Channel over Ethernet interface.
- Usability improvements include the following:
 - Improved Dynamic LPAR console automation, which automatically issues appropriate VIOS commands during DLPAR changes initiated from the HMC
 - Ability for the user to specify the destination Fibre Channel port for any or all virtual Fibre Channel adapters
 - Improved VIOS setup, tuning, and validation using the Runtime Expert
 - LPM provides a 2X improvement in LPM concurrency and up to a 3X improvement in single session mobility performance.

Product number

Program number	Program name
5765-PVX	IBM PowerVM Express® Edition V2.2
5765-PVS	IBM PowerVM Standard Edition V2.2
5765-PVE	IBM PowerVM Enterprise Edition V2.2

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