IBM Cloud Management Console for Power Systems

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Agenda

- Understand the motivation behind the new CMC platform
- Learn what apps are, and can be, delivered
- See the details of the platform
- Walk through the support model
- FAQs
- Find out how Design Thinking is being used and how you can get involved!
Application development and delivery is evolving...

“BIMODAL IT” (GARTNER)

IT Mode 1
Safety, Accuracy

IT Mode 2
Exploratory, Rapid, Non-linear

1960
Mainframe / PC / Web

2000
Cloud / Mobile / IoT

2016

Innovate
Automate
Record

Innovate
Iterate
Cloud-Native

Record, Automate, Learn
“Cloud Native” is emerging as the new standard framework for rapid application development and innovation.

Decomposing an application into single-function modules with well-defined interfaces which are independently deployed and operated by a small team who owns the entire lifecycle of the service.
Current Power Management Options

Traditional

P6/P7/P8 ->

PowerVM
PHYP
VIOS
FSP

PowerVM
PHYP
VIOS
FSP

Cloud Management

P6/P7

Nova
Nova
Nova

Cloud
Virt

P8 ->

PowerVM
NL
Nova

PowerVM
PHYP
VIOS
FSP

FSP

Hardware Service (HMC)
Transformation for Managing the Power Cloud

- As data centers scale out and up, there’s an increasing need for a holistic view of the infrastructure, and insight into this view.
- Introducing yet another management tool, or building a single monolithic tool, is not the solution.
- The solution should be available with no additional investment of resources or time.
- The solution is web-based micro-services that can be accessed anytime, anywhere.
CMC Platform Overview

POWER

Minimal On-Prem Setup
- Cloud connector ships with HMC PTF MH01698 for V8R8.6 SP1
- Configuration established at cloud platform / portal
  - No need to manually sync cloud connector

Secure Cloud Storage
- Secure, continuous, one-way push of data from cloud connector to cloud
  - Supports proxy servers
- Company admin configures cloud connector and users’ data access
  - IBM ID for authentication
- Multi-tenant model based on customer ID
- At-rest encryption

Services
- Data visibility + insights
- Mobile-friendly
- Social media feeds
- DevOps delivery / decrease TTM
- Future intentions to leverage Data Science Experience (DSX) for predictive analysis
Apps Aligned With Customer Use Cases

**Inventory Aggregation**
- View all Power Systems, HMCs, LPARs, etc. across your entire enterprise
- See basic health & state
- Tag groups
- Hardware inventory

**Performance Monitoring**
- Aggregated performance views across your Power enterprise
- Energy monitoring
- SSP metrics

**Patch Planning**
- Patch compliance reports, showing what firmware, HMC, VIOS, and OS updates are missing
- Scheduled maintenance plan management

**Log Trends**
- Log aggregation
- Telemetry

**Coming October 2017!**
Future Apps

Performance Monitoring
- Threshold alerting
- Capacity planning
- Predictive trends

Capacity on Demand
- Monitor compliance and billing
- Automatic key management
- Shift from CapEx to OpEx consumption

Log Trends
- Predictive Trends
- Best practice recommendations
“App Store®” User Experience

**PP** Patch Planning

Consolidated, easy-to-navigate views of code levels across your Power environment and available updates. Create and share patch plans with all stakeholders.

**Pe** Performance

Monitor the performance of your Power environment. For systems, partitions and shared storage pools easily see utilization trends and monitor data center efficiency with energy metrics.

**In** Inventory

Monitor the health status of all the resources in your Power infrastructure. Search your resource and hardware inventory to find what you need. Select any resource to filter the status information for that resource.

**Lo** Logging

Use the Logging application to get insights into your data center PowerVM Virtualization actions such as Live Partition Mobility (LPM), Remote Restart (RR), and Partition Lifecycle.
IBM Cloud Platform

Developer Services (PaaS)
- Bare Metal
- Virtual Machines
- Cloud Foundry
- Docker Containers
- Event Driven

Infrastructure Services (IaaS)
- Public
  - Multi-Tenant Off-Prem
- Dedicated
  - Single-Tenant Off-Prem
- Local
  - Single-Tenant On-Prem

- Watson
- Mobile
- DevOps
- Analytics
- Integration
- Databases
- Runtimes
- Compute
- Network
- Storage
- Security
- Data Center
Getting Started

5 minutes

- Company admin logs into unique website requested using IBM ID provided at time of order, and sees unique API key for cloud connector

automate

- Start cloud connector on HMC (chsvc) with API key

optional

- Configure managed server and user (including data & app access) blacklists, as well as register and disable apps

automatic or manual

- Cloud connector can detect config change or be fed them

ENJOY!

Use the apps

Getting Started
Welcome to Zendesk

- When your unique portal is created for a new subscription, the designated admin will receive an e-mail like this:

  Welcome to IBM

  Welcome to IBM. Please click the link below to create a password and sign-in.

  https://hmcnext.zendesk.com/verification/email/VEvCtBFaxntP1INj39Zl

  This email is a service from IBM. Delivered by Zendesk
Help / How-To Support Today

Systems Management for Power Enterprise Pool

Knowledge Center

Contact IBM
Comment on this content
Tell others about this content or about IBM Knowledge Center
General IBM Support
Email feedback to IBM Support
1-800-IBM-7377 (US)

Developer Center

Connect and contribute
View recent blog posts and learn news information about IBM PowerVC.
Ask questions and get advice about IBM PowerVC on IBM Answers.

Information and support
PowerVC 5.2 Knowledge Center
PowerVC 10.3 Standard Knowledge Center

IBM Support

Search support or test product

Technote

Virtual HMC appliance (vHMC) Overview

Technote (troubleshooting)

Problem (Abstract)
This document includes an overview of the virtual HMC (vHMC) offering and addresses common questions regarding vHMC.

Resolving the problem

Overview
Zendesk Integration With CMC

IBM Cloud Management Console for Power Systems

**Inventory**
Monitor the health status of all the resources in your Power Infrastructure. Search your resource and hardware inventory to find what you need. Select any resource to filter the status information for that.

**Logging**
Use the Logging application to get insights into your data center PowerVM Virtualization actions such as Live Partition Mobility (LPM), Remote Restart (RR), and Partition Lifecycle.

**Performance**
Monitor the performance of your Power environment. For systems, partitions, and shared storage pools, easily see utilization trends and monitor data center efficiency with energy metrics.
Launch Into Zendesk From CMC (optional)
Zendesk Community

Users

Timothy Borland
1 month ago

I am unable to click “apply” in the performance page to view performance information. I can see 400+ LPARs in the inventory page, as well as VIOS and managed systems. This behavior is the same in firefox and chrome.

Kosta Lochitis
1 month ago

Had the same issue, went back to the hmc and ensured each partition / frame had the option to collect performance data collected enabled. Once that was done took some time and perf. Tab started displaying metrics
Zendesk Ticket Satisfaction Ratings

- Within 24 hours of ticket resolution, customer receives an e-mail where they can submit one of the following:
• Where will this platform be hosted?
  – US South Bluemix. There are future plans to investigate other geos.

• Can certain data fields be restricted from being streamed off prem?
  – We are investigating serial number and IP address fields from which filters can be formed and the cloud connector will honor by not sending that data. We’d like to hear your thoughts on this!

• How much does it cost? Is this included with my current Power licenses?
  – Pricing will initially be on a per-monitored server, per-month basis. E880C, E870C, and E850C models can be monitored for free.
  – Subscription to the CMC is separate from existing Power hardware or software entitlement.

• Can I manage my systems from the apps?
  – No. The initial goal is to provide read-only views of data. The datacenter pushes data to the cloud. The cloud never makes changes to the datacenter.

• Do I have to install anything?
  – All apps are delivered ‘As A Service’. Fixes and updates will be automatically rolled out. All that’s required is to enable cloud connectors on your V8 R8.6 SP1 + MH01898 (or later) HMCs.
Will HMC and NovaLink continue to be supported?

- These apps augment and leverage data from HMC.
- HMC and NovaLink (PowerVC) will continue to be key to delivering new Power hardware and virtualization support, respectively.
- This new platform provides a better way to deliver useful functions around Power management data aggregation & associated insights faster.
CMC Demo
Observe  Reflect  Make
Make together with us.

A Sponsor User is not a passive subject— they are active participants who work alongside our teams to help us design experiences for real target users rather than imagined needs.
CMC Reference Links

- Datasheet: https://www-01.ibm.com/common/ssi/cgi-bin/ssialias?htmlfid=POD03130USEN

- IBM Sellers:
  - Seller Enablement: http://w3-01.ibm.com/sales/ssi/cgi-bin/ssialias?htmlfid=POP04049USEN
  - DDR Enablement Recording: https://ec.w3bmix.ibm.com/session.html?id=27446EE366B596FF8525810E0050B82C
  - DDR Enablement: https://w3-03.sso.ibm.com/sales/support/ShowDoc.wss?docid=PO712513USEN


- Papers/Blogs/Social:
  - Article: https://www.itjungle.com/2017/05/08/ibm-brings-cloud-management-house-new-console/
  - Twitter Post: https://twitter.com/IBMPowerSystems/status/861589607191683072
Get Your Client Started with CMC

Your Education: Document #POP04049USEN Sellers (SSI) / Business Partners (PW)


Prepare the Datacenter: Review the Cloud Connector Security Whitepaper for more information on firewall changes that should be requested and HMC code updates

Purchase:

- C Model Clients: Send an email to powercmc@us.ibm.com with server serial number, primary administrator IBM ID email address and preferred subdomain name

- All other systems: $50 USD per managed server, per month

Purchasable in Passport Advantage SaaS Catalog (D1SNQLL)

Help? Contact Ashok sashok@us.ibm.com
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