

Everybody is talking about cloud,  
but can I run my IBM i in the cloud ?

The image shows the IBM logo in a large, 3D, white font. The letters are blocky and have a slight shadow cast to the right, giving them a three-dimensional appearance. The logo is centered on the page.

Tonny Bastiaans

WW offering management IBM Power Virtual Server

Email: [Tony\\_bastiaans@nl.ibm.com](mailto:Tony_bastiaans@nl.ibm.com)

# IBM Power Systems has evolved

From Static to Flexible, with the choice to consume on-premise or in the cloud

Deploy  
Wherever &  
when  
needed

IBM i

AIX

Linux

## Power Server Standalone



*Traditional Infrastructure  
Deployment*

## Power Private Cloud Pay-as-you-go



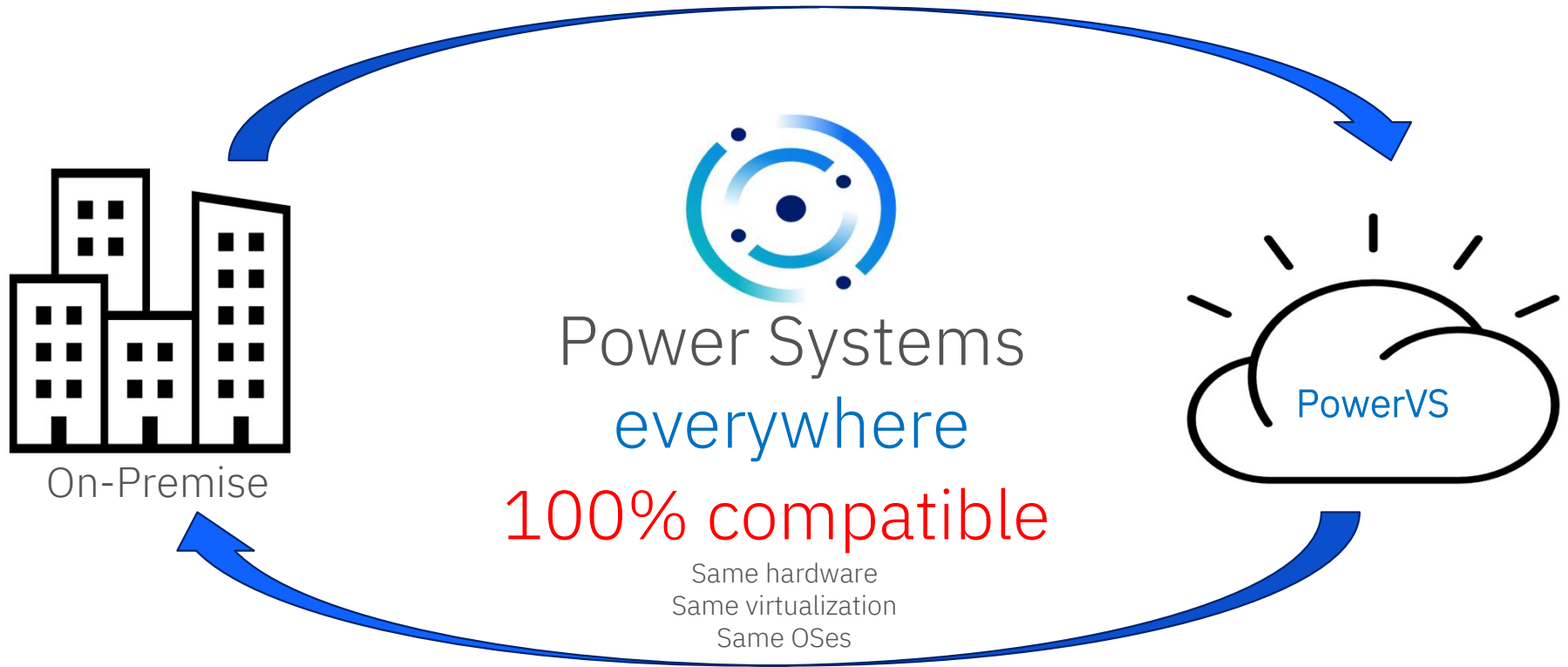
*Flexible Consumption  
/ Pay for what you use*

## IBM Power Virtual Server



*Move applications out of  
the data center as needed*

Hybrid is the new future



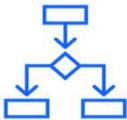




**IBM i** **AIX** **Linux**

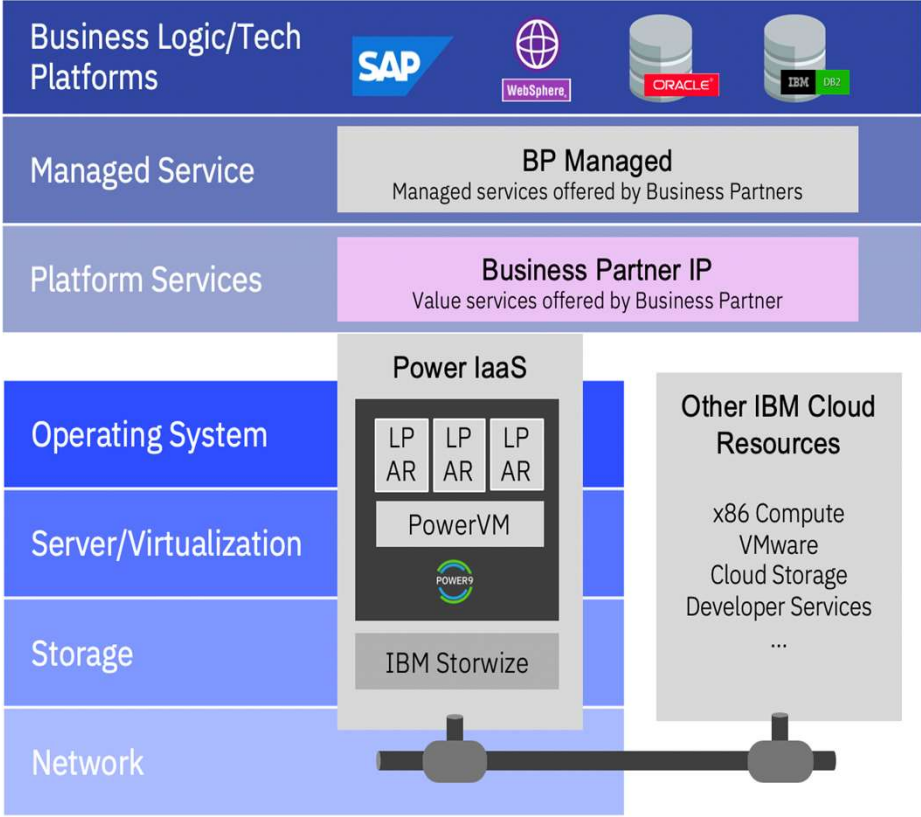
Do we Have / Want it locally

**IBM i** **AIX** **Linux**

AIX, IBM i & Linux on Power  
Are available in the cloud

# Move production workload to cloud with confidence

-  No re-platforming: architecturally consistent compute, storage, and IO
-  Highly reliable infrastructure with leading business continuity and DR
-  Superior IBM Power security and comprehensive Cloud compliance
-  Flexible consumption; fully owned and operated by IBM delivering industry leading SLAs
-  Intentional workload placement, integrate with IBM Cloud or on-premises and benefit from a strong ecosystem for IBM i, AIX and Linux



IBM Power Virtual Server

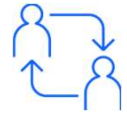
Power Virtual Server provides full cloud advantages



Access to 200+ IBM Cloud services - Analytics, AI, ML



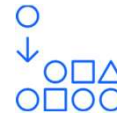
Superior IBM Cloud security



Reduce Dependency on Specialized Skills



No Upfront Cost



IBM Cloud Enterprise Savings Plan



Cloud Agility



Flexibility to Scale

## Highlights

# 21

Data centers across  
the globe and growing

# 650+

Customers deployed  
Production, HA/DR, and  
Dev/Test use cases

### Key Workloads

- Certified SAP IaaS
- SAP NetWeaver and S4/HANA
- Oracle Supported
- IBM i workloads
- Epic - Healthcare (training case)
- Red Hat OpenShift
- IBM Cloud Paks
- OS: AIX, IBM i, Linux

### Comprehensive Compliance

- GDPR
- SOC 1 Type I and II
- PCI DSS Certification
- ISO 27K

### Why It Matters

- [Frictionless expansion and migration between on-premises and Power Virtual Server.](#) Identical architecture with enterprise Power Systems on-premises from microprocessors, firmware, PowerVM, PowerVC, dual VIOS to SAN storages.
- [Same workloads supported on-premises are supported in Power Virtual Server e.g. Oracle, SAP, IBM i, RedHat OpenShift](#)
- Secure Infrastructure as a Service, Resilient platform for mission critical workloads, Flexibility to scale on-demand, Cloud consumption model to pay for use, reduce CapEx, specialized skills not required, Cloud Native development on Power

# IBM Power Virtual Server

Worldwide deployment locations

21 data centers in 9 countries, across 10 regions and continuing to expand!

● Worldwide deployment locations

## Americas (4 Regions)

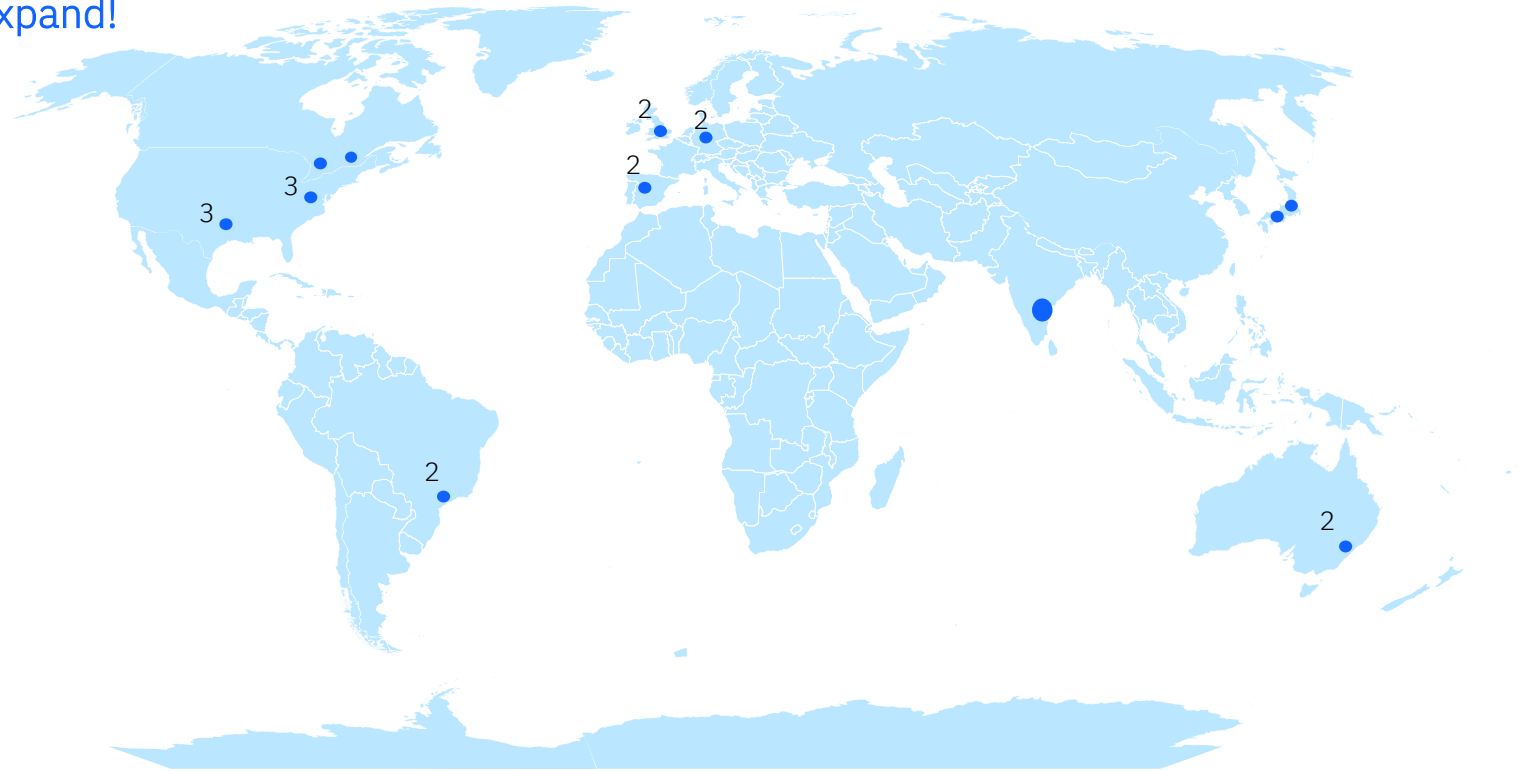
- Dallas (3)
- Washington DC (3)
- Toronto
- Montreal
- Sao Paulo (2)

## EMEA (3 Regions)

- Frankfurt (2)
- London (2)
- Madrid (2)

## APAC (4 Regions)

- Sydney (2)
- Osaka
- Tokyo
- Chennai



**NOTE:** IBM PowerVS are physically located in IBM Cloud data centers with their own dedicated infrastructure.  
For latest list of supported data centers, please visit this [documentation page](#).

# Power Virtual Server : Built on most reliable and secure infrastructure

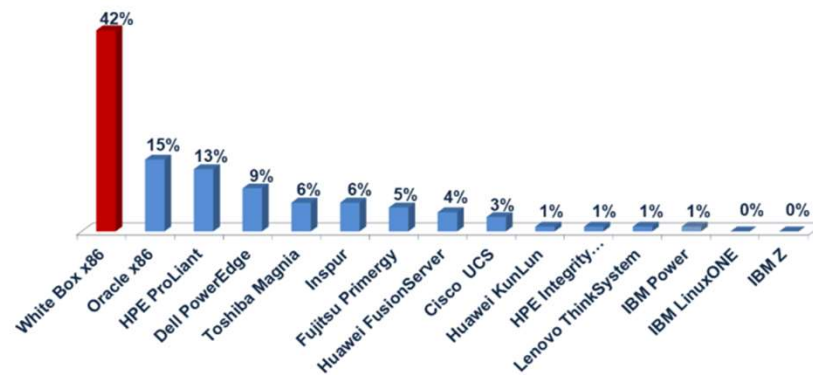
- IBM Power Virtual Server (PowerVS) is engineered for [five 9's availability](#) (SLO) and 99.99% SLA
- Built-in end-to-end security from processor to firmware to hypervisor that minimizes security vulnerabilities
  - Common Vulnerabilities and Exposures (CVEs) reported since 2020 for Power and Azure hypervisors

PowerVM	Hyper-V
15*	204*

- Configurable so that even IBM cannot see your data
- Edge-to-cloud threat management with IBM security integration

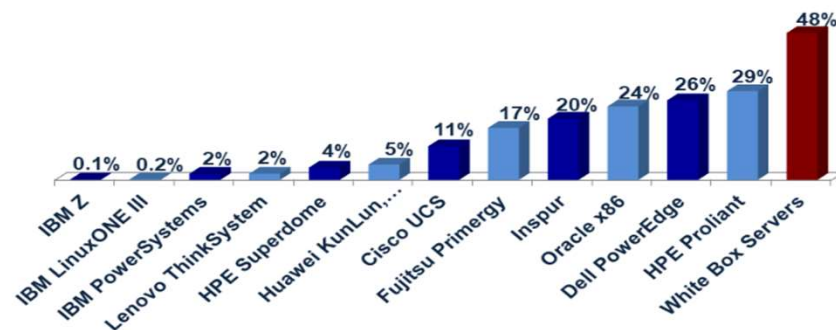
\* NIST vulnerability database – [PowerVM](#), [Hyper-V](#). Data as on September 27<sup>th</sup>, 2024

Unplanned Annual Server Downtime of 4 Hours or more by Vendor Hardware in 2023



Copyright © 2023 ITC All Rights Reserved

Percentage of mission critical servers that had downtime due to a security issue or data breach by Vendor in 2022



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# Real example



Nigel Griffiths • 1st

Advanced Technology Advocate IBM Power Systems: 40 years o...  
4h • 🌐

How bad is Internet hacking?

I have a #AIX VM directly on the Internet (using #PowerVS) with its IP Address in a YouTube video on the #nmonchart service to upload #nmon files for graph generation via the returned .html web page file, find it here:

<https://lnkd.in/eM93tHZx>

It has been used a few 100 times now.

It is a website just for fun, not very public & not important!!!

That is ~7330 hack attempts per day.

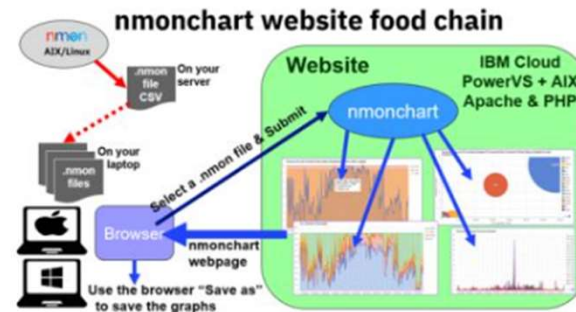
AIX on the Internet with the IP address in a YouTube video description about the free nmon file graphing website.

**HACKING SO FAR:**

**100** Uptime days

**733,076** Hacking attempts

From **9346** unique addresses



# AIX

All reported in /etc/failedlogin file  
Well done, **IBM PowerVS** & default **AIX security**  
Default AIX 7.3 password rules are large & complex

You and 58 others

1 comment • 5 reposts

## Supported IBM i versions on IBM Power Virtual Server

IBM i 7.5

IBM i 7.4

IBM i 7.3

IBM i 7.2

# IBM i License Program Products (LPP) and Operating System feature bundles

When you select IBM i, in addition to the IBM i operating system, the following LPP, and IBM i operating system features are included in the IBM® Power® Virtual Server offering:

- 5770-SS1 IBM i processor and unlimited users
- 5770-SS1: IBM i Option 23, OptiConnect
- 5770-SS1: IBM i Option 44, Encrypted Backup Enablement
- 5770-SS1: IBM i Option 45, Encrypted ASP Enablement
- 5770-SS1 IBM i Option 18 Media & Storage Extensions
- 5770-SS1 IBM i Option 26 Db2 Symmetric Multiprocessing
- 5770-SS1 IBM i Option 27 Db2 Multisystem
- 5770-SS1 IBM i Option 38 PSF for IBM i Any Speed Printer Support
- 5770-SS1 IBM i Option 41 HA Switchable Resources
- 5770-SS1 IBM i Option 42 HA Journal Performance
- 5770-SS1 IBM i Options: all other IBM i Options that are included with IBM i at no additional charge. Examples:
  - Option 8, AFP Compatibility Fonts
  - Option 12, Host Servers
  - Option 13, System Openness Includes
- 5770-DG1: HTTP Server for i
- 5770-JV1: Developer Kit for Java
- 5770-NAE: Network Authentication Enablement for i
- 5733-SC1: Portable Utilities for i
- 5770-TC1: TCP/IP
- 5770-TS1: Transform Services for i
- 5770-UME: Universal Manageability Enablement for i
- 5770-XE1: IBM i Access for Windows operating system
- 5733-ACS: IBM i Access Client Solutions
- 5733-ARE: IBM Administration Runtime Expert
- 5798-FAX: IBM Facsimile Support for i
- 5770-SM1: IBM System Manager for i
- 5770-DFH: IBM CICS Transaction Server for i
- 5770-MG1: IBM Managed System Services for i

## Use Cases



### Data Center Optimization and Operational Excellence

Eliminate or optimize your data center with thoughtful workload placement decisions to drive faster growth and global expansion, focusing on business outcomes instead of infrastructure management

Reduce operational costs and improve service quality with enhanced response times and flexible pay-as-you-go billing.



### Business continuity

Keep your on-premises business running with reliable failover solutions including backup, high availability and disaster recovery.

Reduce capital expenditure, planning complexity and capacity headroom.



### Modernization and AI

Address your business outcomes by modernizing your Power applications and keeping data in place with containers or AI.

Seamless access to 200+ IBM Cloud services seamlessly, including Watsonx and OpenShift

Data Center Optimization and Operational Excellence

Business continuity

Modernization and AI

# Results that matters from our partners and clients

**RICOH**

imagine. change.

IBM i, VTL DC  
Optimization,  
Backup/DR  
[Read more](#)



Environment National Van  
Lines Bolsters Business  
Continuity with IBM Power  
VS Hybrid Cloud  
Environment  
[Read More](#)



[Kosei Securities  
Co Ltd,](#)  
Lift and shift to  
Cloud, Backup  
with IBM I VTL  
[Read More](#)

CLAI PAYMENTS<sup>®</sup>  
TECHNOLOGIES

with

IBM i, IBM Crypto Cards  
[Read more](#)

**Tupperware<sup>®</sup>**

IBM i, VTL  
[Read more](#)



Safeguards CS migrating  
financial workloads  
[Read More](#)



SAP HANA Hybrid Cloud  
[Read more](#)

LABEYRIE  
FINE FOODS

Oracle JDE (AIX)  
[Read more](#)



DB2 (AIX)  
[Read more](#)



Modernization  
Azure to PowerVS  
with (.NET 7)  
[Read more](#)



Figaro (IBM i)  
[Read more](#)



Logistic applications (IBM  
i)  
[Read more](#)



Homegrown applications  
(IBM i)  
[Read more](#)



SAP ECC (AIX) and SAP HANA  
(Linux)  
[Read more](#)





## THE SCIENCE OF LIFTING AND SHIFTING TO THE CLOUD

October 11, 2023 Timothy Prickett Morgan

What got Kosei Securities thinking about a move to the cloud was the fact that IBM had announced the end of support for the generation of Power machines that it was using to run KICS. Add to that the fact that the air conditioning equipment in the server room in the Osaka office was also aging and would likely need to be replaced, and that the cost of electricity for powering the systems and cooling them was also rising every year. And aside from budgetary considerations, Kosei Securities was worried about rising cybersecurity threats and mitigating against power outages and disasters both natural and manmade.

And so Kosei Securities started researching its cloud options and engaged the consulting services of IBM i business partner [OmniScience](#), which was founded in Tokyo in 1987 and provides a slew of middleware and development tools such as API-Bridge, PHPQUERY, and a relatively new offering called PVS One. PVS One is a lift and shift service that helps customers move from on premises IBM i instances to IBM i running on Power Virtual Server instances on the IBM Cloud.

“One of the neat things about moving to the IBM Cloud is that you can test how applications will work in a proof-of-concept partition set up on the Power Virtual Server, says Mamoru Ito, Solution Group, Kosei Securities. “With this you can see how it is going to perform in terms of throughput and latency *before* you commit to a certain configuration or a certain location where the cloud capacity is served.”

Using the PVS One service from OmniScience, Kosei Securities set up a PoC setup running on POWER9 Power Virtual Server instances in IBM’s datacenter in Tokyo and to its surprise and joy, the KICS application just moved straight over to the newer Power iron and new IBM i release.

Even with an SSL-encrypted virtual private network and the latency of running over the cloud, the Power Virtual Server instance provided nearly the same performance and latency as the on-premises servers running in the Kosei Securities datacenter in its Osaka headquarters. After two months of testing using this PoC environment, OmniScience moved the KICS application over to replicated Power Virtual Server instances running in IBM’s datacenters in Japan and also moved those Windows Servers running Java and Visual Basic applications that modernize the KICS suite – extending them to PCs, tablets, and smartphones and adding new functionality on top of that – to X86 instances running on the IBM Cloud.

[Link to the article](#)

# IBM Debuts Client Option for Power Systems Virtual Server



Laura DiDio October 8, 2024

IBM continues to expand and enhance its Power Systems Virtual Server (VS) capabilities, unveiling a client option designed to modernize, secure and automate business applications and IT operations in hybrid cloud, both on and off premises.

Richard Milione, co-founder and managing director of CNX Corporation, a Chicago-based firm which makes the Valence application developer platform, had high praise for IBM PowerVS, saying it “ticked all the boxes: for performance, reliability, security, ease of use, manageability at an extremely aggressive price point.”

CNX has deployed IBM PowerVS with the IBM i operating system to run its Valence enterprise application development platform for over a year out of IBM’s Power data center in Dallas. Milione extolled the system’s performance, reliability and security.

“We’ve had zero issues. The IBM PowerVS has a lot of built-in redundancy; it’s been super reliable, and that carries over to the cloud systems,” Milione said. “I can’t recall any systems failure that was not our own fault.”

<https://techchannel.com/industry-news/power-systems-vs-client-option/>

# PowerVS QuickStart

## Easy and Fast

- Pre-Configured PowerVS t-shirt sizes available for selection (XS, S, M, L)
- Users select the Data Center and t-shirt size
- Leverage IBM Enterprise Platform Experience framework
- Deployable Architecture using Terraform and Ansible

## [PowerVS QuickStart](#)

### Configure

Security

**Required**

Optional

powervs\_zone ⓘ

Select a value

prefix ⓘ

Enter prefix

tshirt\_size ⓘ

Select a value

ssh\_public\_key ⓘ

Secure value



ssh\_private\_key ⓘ

Secure value





# Benefits

Everything you need to Get Started in < 20 minutes

- Accelerate Proof of Concept
- Progression when access or availability of local resources is limited
- Encourage customers and business partners to experience a digital journey
- Sizing based on best practices

IBM Tech Seller Testimony:

With limited resources in the region, establishing a PoC for a customer would take 5 - 7 days; now with QuickStart takes <1 hour.

## [PowerVS QuickStart](#)

The screenshot displays the IBM Cloud catalog interface. At the top, the 'Catalog' header is visible. Below it, a search bar contains the text 'QuickStart'. A dropdown menu shows the selected category 'IBM Cloud catalog'. The search results list 'Power Virtual Server with VPC landing zone' as the top result. Below the search bar, a 'Category' filter is expanded, showing a list of categories with their respective counts: Compute (37), Containers (11), Networking (30), Storage (25), Converged infrastructure (3), Enterprise applications (3), AI / Machine Learning (26), Analytics (17), Databases (23), Developer tools (23), Logging and monitoring (3), and Migration (9). A notification banner indicates 'Internal IBM pricing displayed' with a message about classic infrastructure services. The main product card for 'Power Virtual Server with VPC landing zone' is shown, featuring a 'Deployable architecture' badge and a description: 'Build a IBM Cloud® Power Virtual Servers (PowerVS) offering according to the best practices and requirements from the IBM Cloud.'

Getting (backup) data to the cloud

## IBM Power Virtual Server

### IBM i Solutions



If you need backup and restore options, or migration solutions you can count on IBM and Power Virtual Server to meet your requirements. Regardless if your strategy is Cloud or Hybrid Cloud, IBM has solutions available.

- **Manual saves to virtual tape and FTP**
  - **BRMS/ICC for <=2TB**
    - New lower-cost subscription options for BRMS and ICC
  - **FalconStor VTL for 2TB+**
    - VTL software available in the IBM Cloud Catalog
  - **IBM PowerHA geographic mirroring**
- or
- **ISV logical replication solutions**

Manual saves to virtual tape and FTP

# IBM Power Virtual Server



For backup and restore without needing to purchase additional products (and for smaller customers requiring 2TB or less), you can utilize native IBM i tools as a backup to cloud solution.

## IBM i solution:

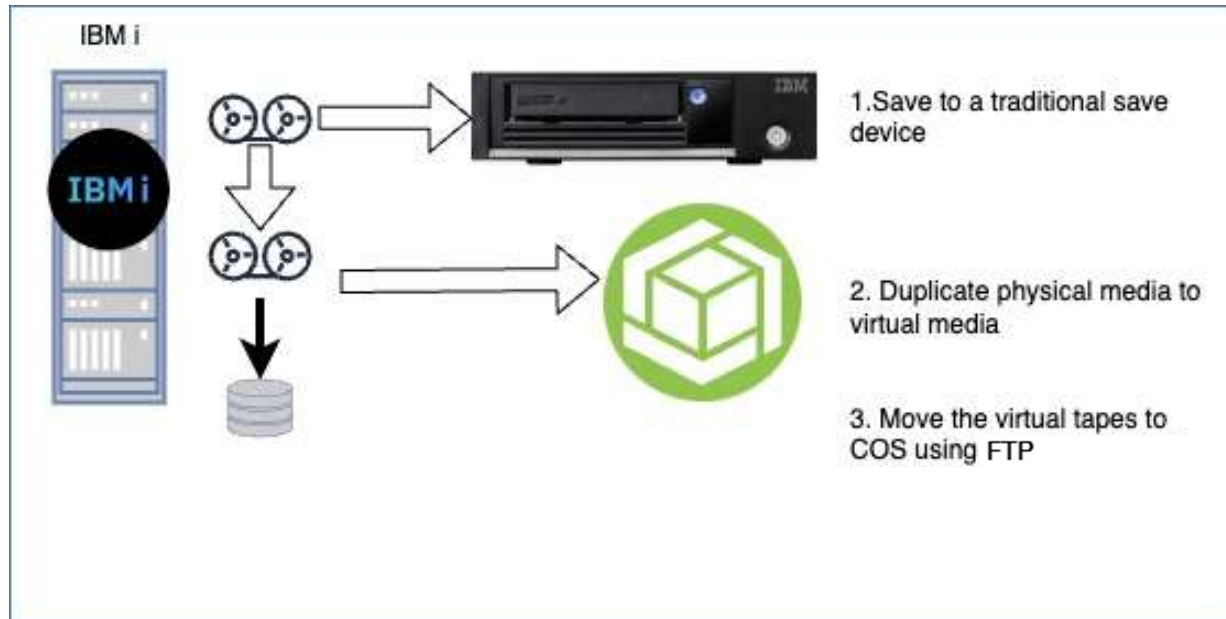
- Manual saves to virtual tape and FTP
  - Use native IBM i SAVxxx commands/save menus to save to virtual tape and use FTP to get the save data off the system
  - The Backup Recovery and Media Services (BRMS, 5770-BR1 or BR2) and Cloud Storage Solutions (5733-ICC) LPPs are available to purchase for a more automated solution

Saving to virtual tape and FTPing off-premises could be in addition to an on-premise tape backup.

This gets data into Cloud Object Storage (COS) which then can be brought back on-premise as needed. Cloud Object Storage is available in the IBM Cloud Catalog.

Can create a Power Virtual Server Instance (VSI) and restore with the data in COS

# Use Native IBM i Tools



BRMS/ICC

## IBM Power Virtual Server



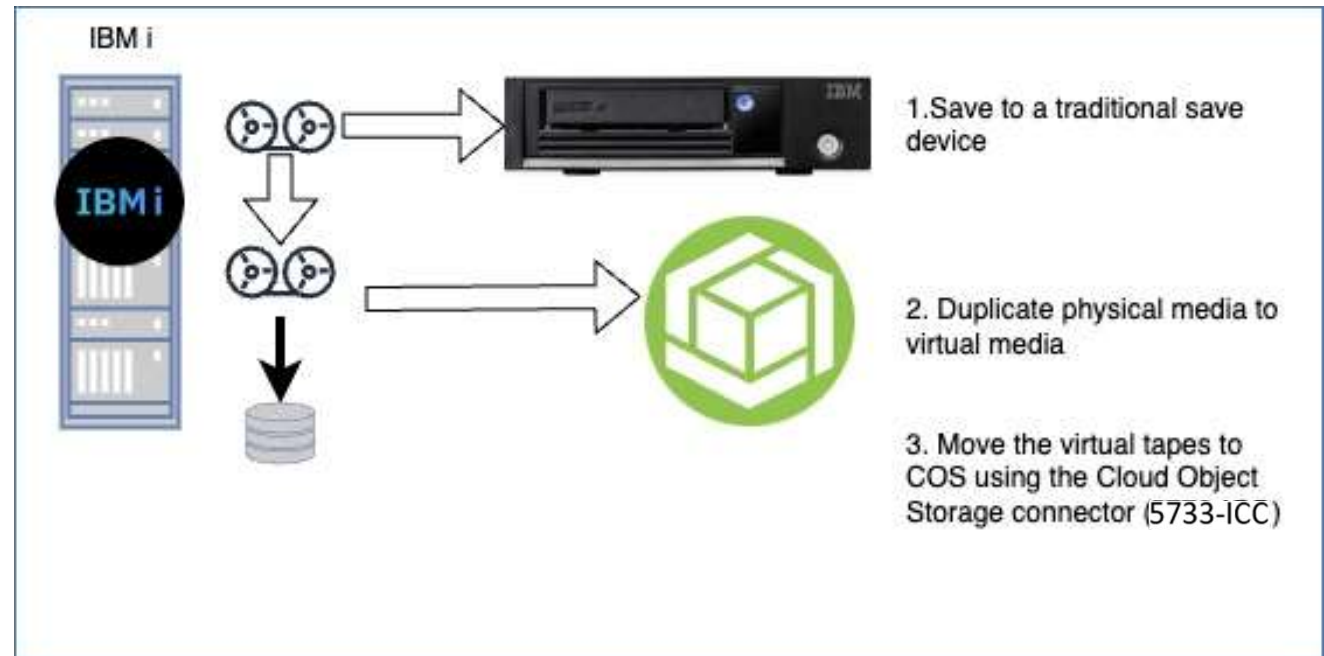
For backup and restore requiring 2TB or less, you can rely on BRMS when combined with ICC as your more automated backup to cloud solution.

### IBM i solution:

- **BRMS/ICC for <=2TB**
  - The Backup Recovery and Media Services (BRMS, 5770-BR1 or BR2) and Cloud Storage Solutions (5733-ICC) LPPs are available to purchase as non-expiring or 90-day/1/2/3/4/5-year subscription term options
  - The new 90-day subscription term options are ideal for migration to Power Virtual Server
  - BRMS/ICC also available in the IBM i Temporary License (5733-ITL) monthly offering
  - For customers in Power Virtual Server, BRMS is included with the IBM i license, then just add ICC

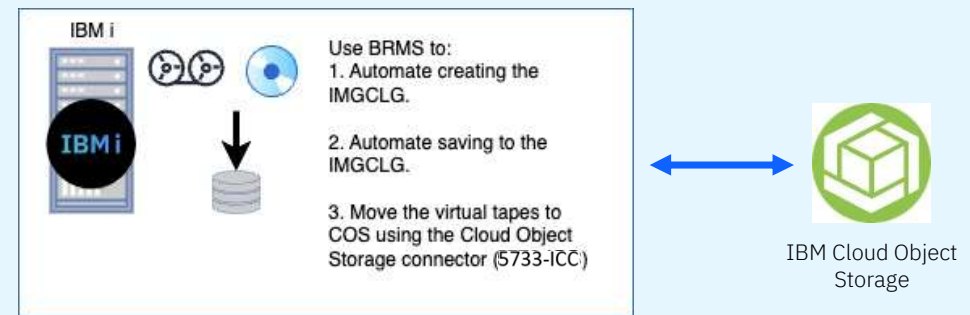
# Use ICC to create additional off-premises copies

- BRMS automatically duplicates tapes to IBM Cloud Object Storage (COS)
- Use Retention Policies and Object Locks to create an immutable copy
- Capable of restoring in Power Virtual Server as a clean room as part of a cyber resiliency strategy

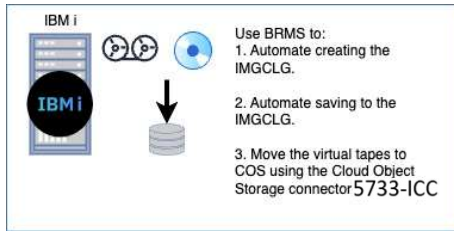


# BRMS with ICC

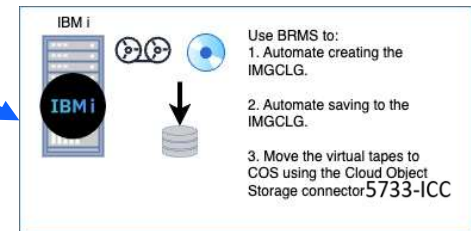
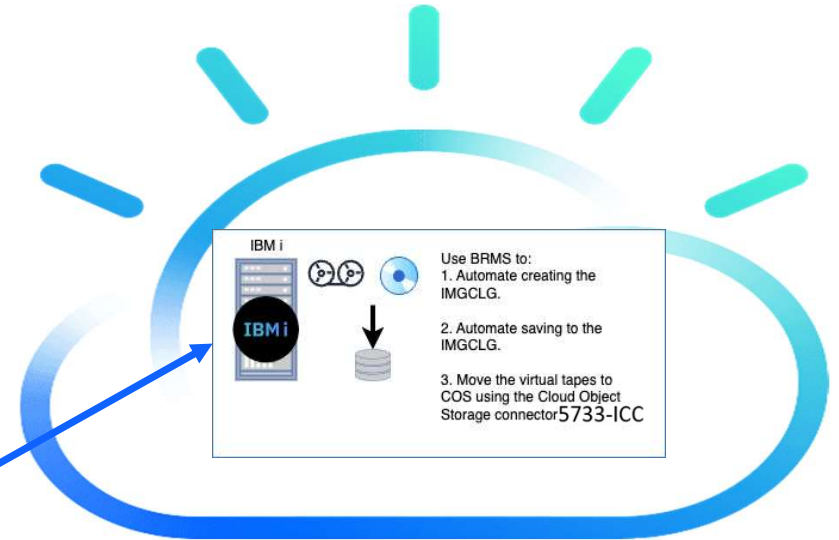
- Backup Recovery and Media Services (BRMS, 5770-BR1 or BR2) and Cloud Storage Solutions (5733-ICC) LPPs
- Additional storage required to save local first
  - **Compression is now supported which saves ~50% of the local storage requirements**
- Backup process is not finished until the data is moved off the box
- Partition/storage size is limited, to fit the process in the backup window
  - **Compression can be utilized to reduce network transfer time**
- Full System restore requires a network install server



# BRMS with ICC



IBM Cloud  
Object Storage



- Multiple servers can save to the same COS region
- Restore the server to a different location from COS

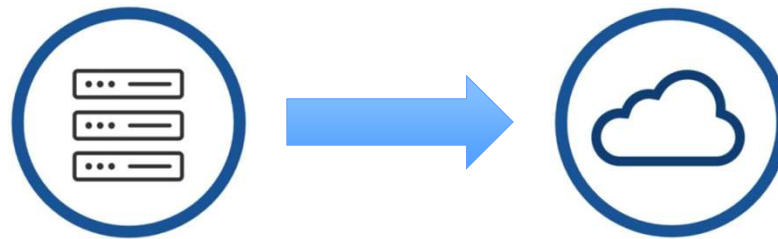
Use cases 



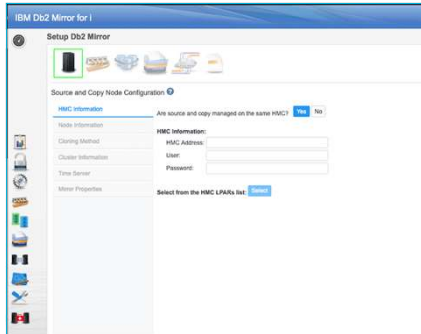
# IBM i Migrate While Active

Easily migrate from on premise to PowerVS

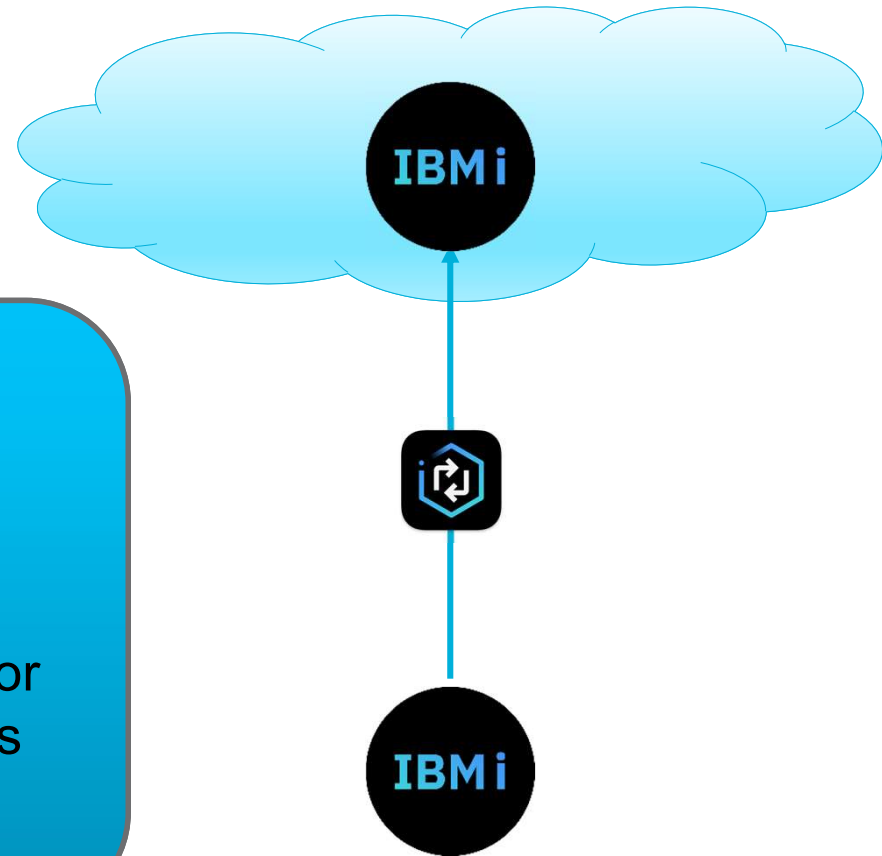
- IBM i standardized tooling to **migrate while active** with minimal impact to production
- Production downtime reduced from days to minutes/hours
  - Dependent on total data size, change rate and network bandwidth
- Automation to reduce the time it takes to seed the base copy
  - Eliminates multiple tools and manual processes for multi-step SAVE/RESTORE
- Production on premise remains available while changes are synchronized in real-time to the target system
  - Eliminates third party replication tools or multiple point in time SAVE/RESTORE iterations



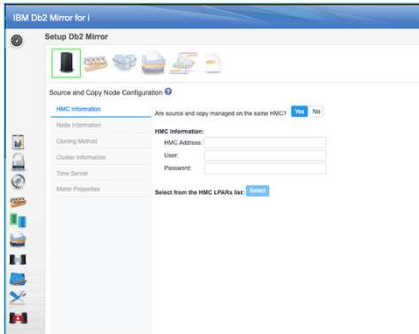
# IBM i Migrate While Active



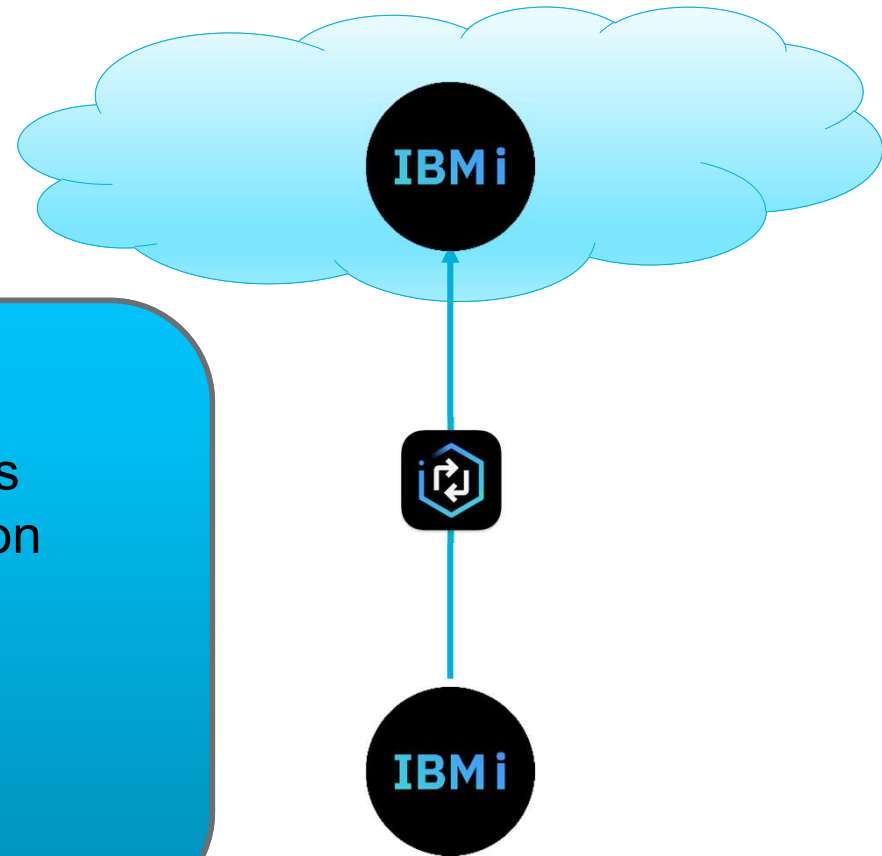
- Reuse IBM Db2 Mirror for i Technology
- Automate/guide system install
  - Migration wizard
- Track and replicate changed data
  - Move to async replication
  - Replicate more objects than Db2 Mirror
- Remove requirement for RoCE adapters
- Note: not a DR solution



# IBM i Migrate While Active



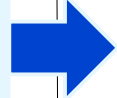
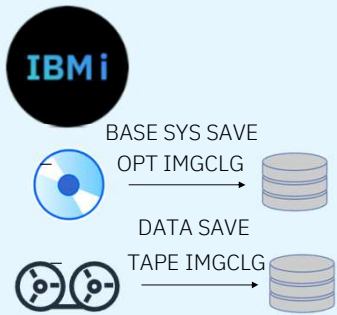
- Option 2 on the Db2 Mirror Product
- Licensed on the source system only
- Migrate IBM i LPARs to remote servers
- Simplify the restore process required on PowerVS
- System capable of running while synchronization occurring



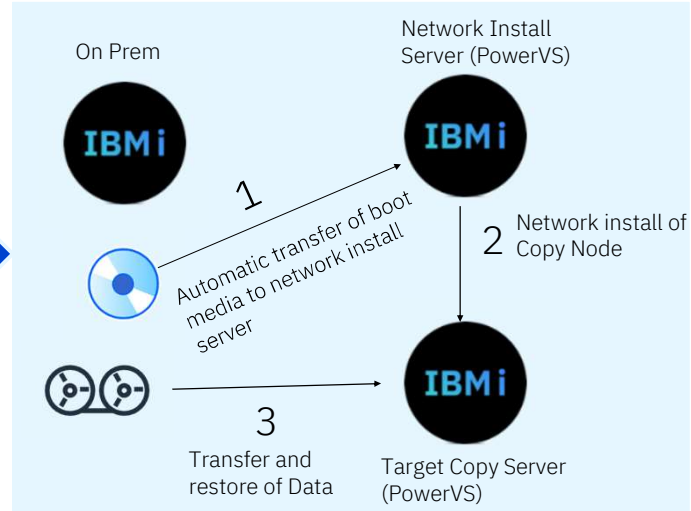
# IBM i Migrate While Active – How it Works

## Step 1: Initial System Save

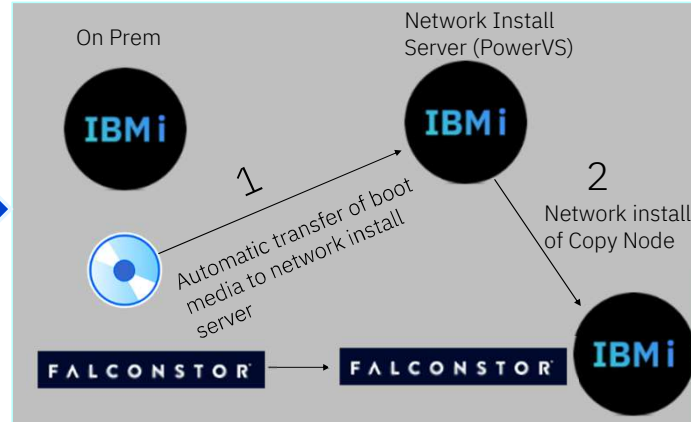
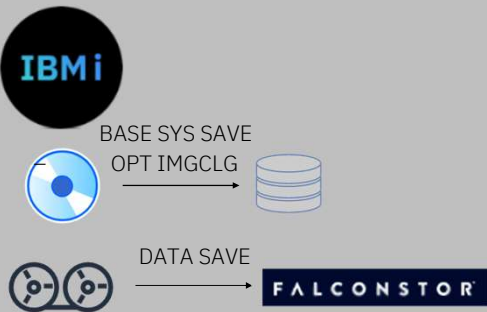
### Pattern 1. Using IBM i Local Storage



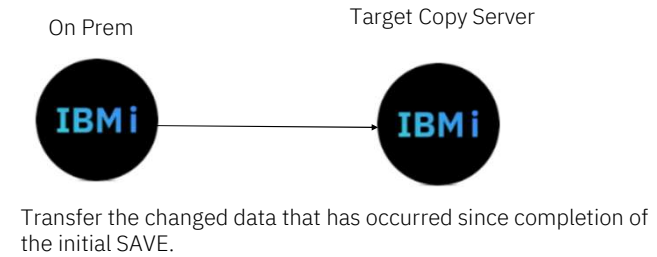
## Step 2: Transfer SAVE to PowerVS



### Pattern 2. Use VTL for DATA SAVE



## Step 3: Transfer Changed Data



# Five Use Cases for Hybrid Cloud Backup and Restore Optimization

*IBM StorSafe VTL for Power and PowerVS powered by FalconStor*



IBM Power + IBM i/AIX + StorSafe VTL

## 1. On-premises Backup Optimization

Enhance existing on-premises backup and set up DR

## 2. Hybrid Cloud Backup

Backup on-prem, deduplicate, and send a copy to PowerVS

## 3. Migrate From On-premises to PowerVS

Migrate workloads and legacy tapes to IBM PowerVS

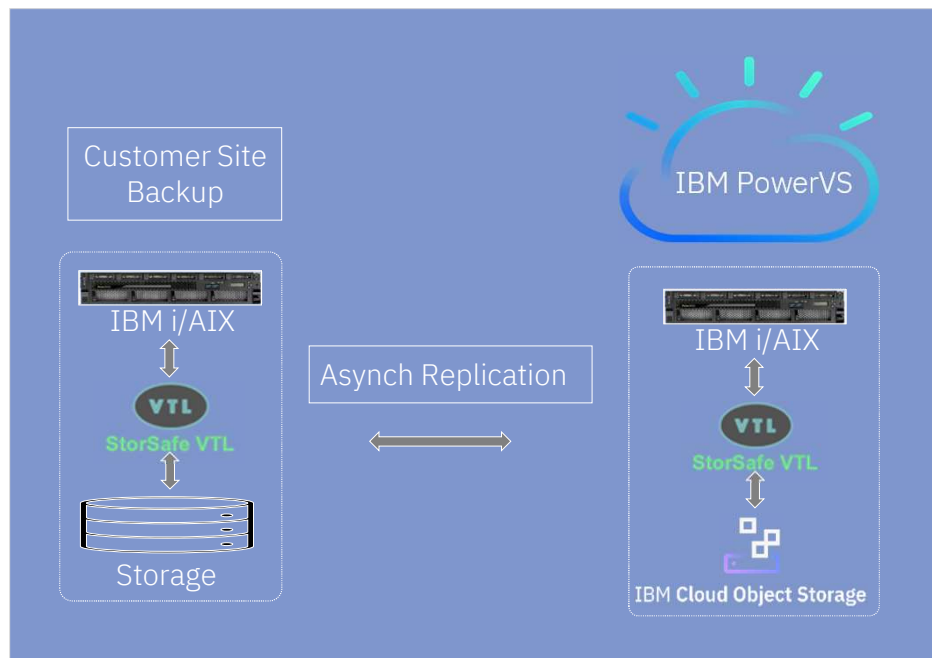
## 4. PowerVS Resident Backup

Backup and Restore for PowerVS-resident IBM i, AIX, and Linux workloads

## 5. PowerVS Disaster Recovery

Replicate workloads in PowerVS to another cloud location for recovery in the event of disaster

## Hybrid Cloud Backup



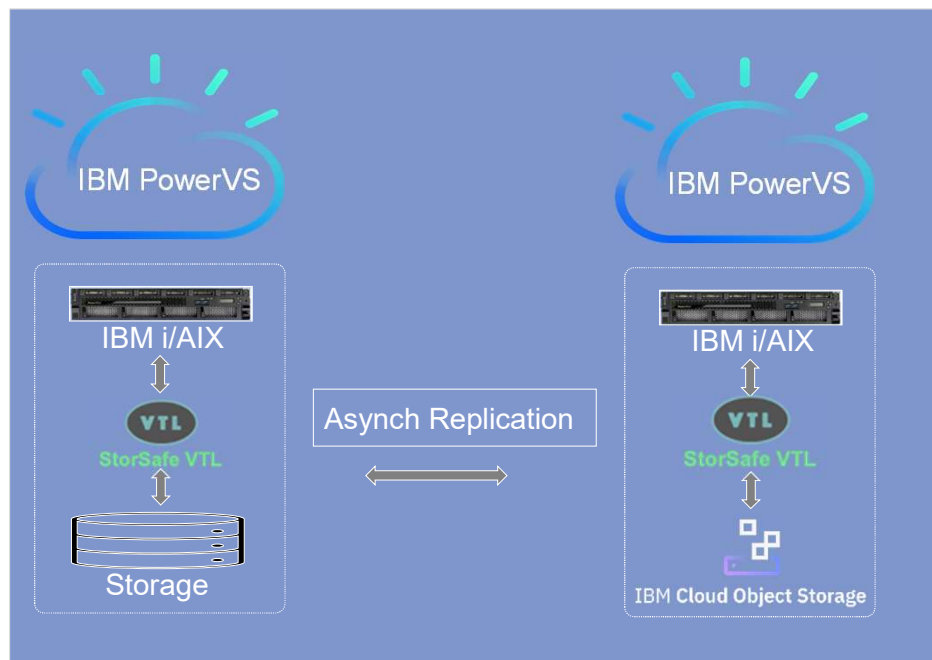
### PROCESS

Copy deduplicated on-premises IBM i, AIX or Linux backups to IBM CCloud for long-term retention, archive, regulatory compliance, ransomware or disaster recovery

Leverage the cloud for long-term archival or disaster recovery with secondary backup to PowerVS

- Replicate on-premises backups to PowerVS for archive or DR
- Deduplicate data prior to replication for substantial storage savings
- Single-pane-of-glass management across on-premises and cloud
- Complementary to existing leading backup software and current tape processes

## PowerVS Disaster Recovery



### PROCESS

Replicate IBM i / AIX workloads to a secondary PowerVS location for recovery in the event of a disaster

Enjoy added protection of a secondary cloud location, using existing StorSafe VTL solution

- Replicate region to region easily
- Enhance protection from Ransomware with separate air-gapped copy of data
- Optional replication to on-premises location

Customer: City Furniture backs up IBM i workloads in PowerVS and has a second VTL for DR

## FalconStor StorSafe VTL Security Features

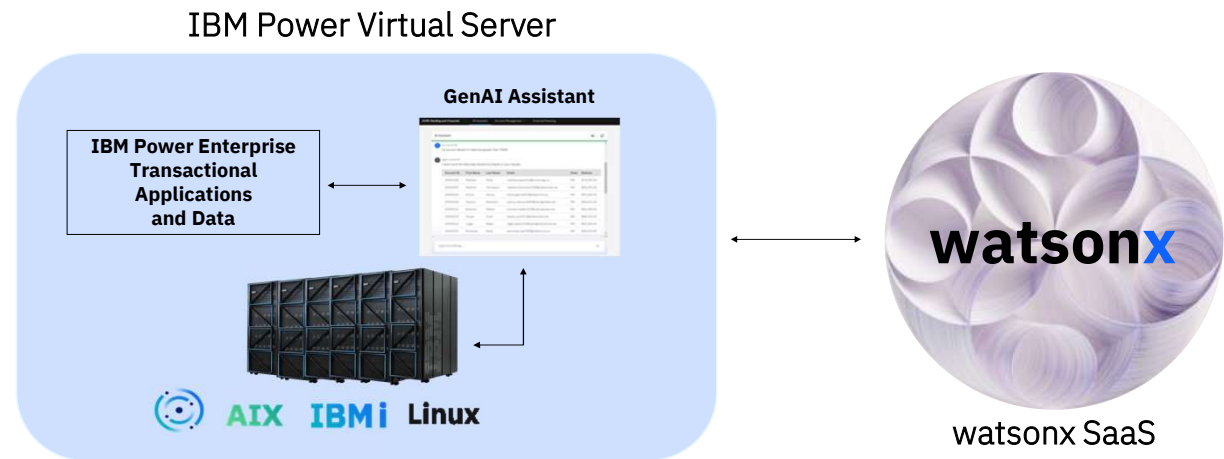


- Immutable virtual tape exports to COS for Ransomware protection
  - Meets more stringent requirements that an admin or bad actor with root credential cannot defeat immutable retention
  - Flexible retention policies, including optional expiration
- Encryption for data in motion and at rest (AES-256)
- StorSafe manages the encryption keys
- Secure multi-tenancy for easy management while securing data
- Virtual tape shredding of unneeded tapes
- Write-Once-Read-Many (WORM) virtual tapes cannot be overwritten by backup software



# Infuse business applications on IBM Power with AI

- Leverage pre-built AI services from IBM watsonx
- Consume AI faster
- Benefit from co-location & enterprise grade reliability, availability and security



# POWERVS2000 Try IBM Power Virtual Server For Free

New IBM Power Virtual Server (PowerVS) clients who deploy PowerVS Quickstart receive \$2,000 Cloud credits, allowing them to try PowerVS for up to three months at no cost.

IBM Power Virtual Server is an IBM infrastructure as a service offering that allows businesses to extend their on-premises environments to the cloud, modernizing hybrid cloud infrastructures and improving workload management. It reduces capital expenditure, leading to cost savings and operational efficiency, while providing an easy path to move SAP, Oracle, and IBM i workloads to the cloud for a seamless hybrid cloud strategy.

## PowerVS Quickstart


Provides pre-configured virtual server instances, available in the IBM Cloud Catalog represented as t-shirt sizes, for all operating systems supported by PowerVS in eligible datacenters.


- Automated deployment of virtual servers
- Easily provision in less than 20 minutes
- Various preconfigured options available
- Guided Tour available to help get started


## \$2,000 credits


- Free trial with self-service onboarding
- Includes initial setup of client to site VPN connectivity
- Up to three months at no cost based on XS t-shirts. Duration of credit varies based on t-shirt sizes.
- Supports 2nd & 3rd Generation processors
- Credits expire after 90 days


### Why IBM Power Virtual Server

 Migrate to hybrid cloud: Seamlessly move and manage your workloads across cloud and on-premises environments.

 Grow at your own pace: Extend workloads and take advantage of pay-as-you-use billing to manage costs.

 Run mission-critical workloads: Work on nonproduction tasks and production environments simultaneously. Use VMs to help resolve issues faster.

 Modernize Power workloads: Connect to services to transform business models.

 Optimize consumption: Add capacity to your Power infrastructure on demand within minutes. Manage on premises or off premises.


## Interested in POWERVS2000? It's easy to get started.

Confirm your client has an IBM Cloud account. They can create one [here](#).

Visit [Power Virtual Server with VPC landing zone](#) and enter promo code

**“POWERVS2000”** at checkout.

To learn more about IBM Power Virtual Server, [visit our product page](#)

 For any questions, and more information, contact Mark Martin, Product Manager, IBM Power Virtual Server, by email at [Mark.Martin@ibm.com](mailto:Mark.Martin@ibm.com).

\* New clients need to deploy PowerVS QuickStart to be eligible for PowerVS2000 credits. Credits apply to virtual server instances deployed in non-US datacenters. Promo offers valid for sign up while supplies last. Offers cannot be combined with any other promos or offers. Valid on new orders only. This document is for informational purposes only. All information provided herein is subject to change without notice. Please refer to the specific contracts for details; this is a summary, and the applicable contract provides the binding obligations between the parties. If there is a discrepancy between a contract and this guidance, the contract will prevail.

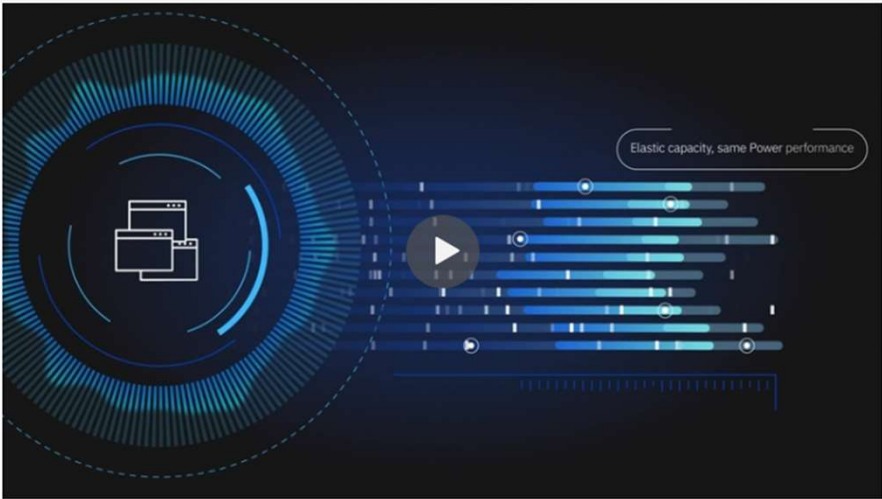
# Resources



# IBM Power Virtual Server

Seamlessly move and manage workloads across both cloud and on-premises environments

[See pricing catalog →](#)
[Book a meeting !\[\]\(94a0b6afdeadc334f091e1e203059d04\_img.jpg\)](#)



Modernize mission-critical compute with Power Virtual Server (1:43)

- Overview
- Benefits
- Use cases

IBM® Power® Virtual Server is a family of configurable multi-tenant virtual **IBM Power servers** with access to IBM Cloud® services.

Webcast

Learn about IBM Power Virtual Server Storage Capabilities.

[!\[\]\(675075a2e254e369b51beb8d44aaf3da\_img.jpg\)](#)

Contact IBM to leverage up to 45% discount with 3-year Committed Use Savings Plan or up to 30% discount with 1-year Committed Use Savings Plan.

# Everything you love about POWER with the benefits of Hybrid Cloud.

Pay-as-you-use billing make it easy to adjust workloads with flexible compute capacity.

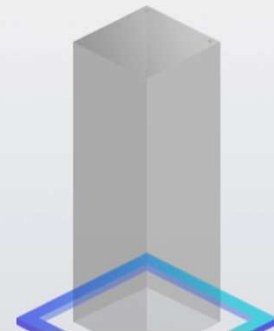
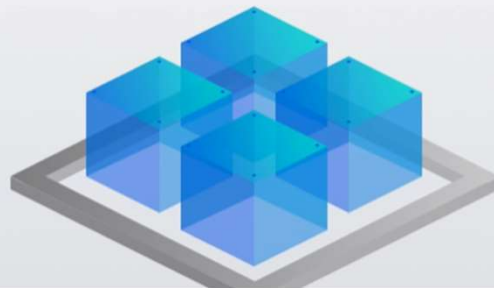
Create a workspace

Estimate cost

## Get started

Quick start for dev test

Advanced for production



Power Virtual Server /

# Estimate cost

Estimates are not deployed or charged. Resources can only be deployed after a workspace has been created.

## Location

Location

Chennai 01

## Estimate resource

Resources must be estimated one type at a time. Click "Add to estimate" to save estimated costs of a configured resource before estimating costs of other resources or configurations.

Virtual server instance

Storage volume

Shared processor pool

VPN connection

Virtual tape library

## Quantity

Number of virtual servers

1

- | +

## Compute

### Summary

United States of A... ▼

1	Virtual server instance	\$134.56 / month
	Location	
	Off-premises	
	Chennai 01	
	Compute	
	AIX	
	e980	
	Uncapped shared processor	
	0.25 cores	
	2 GiB memory	

\$0.18/hr  
**Total estimated cost**      **\$134.56/mo**

Add to estimate

Cancel

# Cloud docs



Cloud

Products ▾

Solutions ▾

Pricing ▾

Docs

Support ▾

Explore more ▾



Log in

Create IBM Cloud account

## Power Systems Virtual Servers

### Get started ^

Getting started with IBM Power Systems Virtual Servers

Release notes

What is a Power Systems Virtual Server?

Pricing for Power Systems Virtual Servers

High Availability and Disaster Recovery options in Power Systems Virtual Servers

Backup and migration strategies ▾

Security and compliance ▾

Use cases ▾



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## Getting started with IBM Power Systems Virtual Servers

IBM® Power Systems™ Virtual Server is a Power Systems offering. Power Systems Virtual Servers are located in the IBM data centers, distinct from the IBM Cloud servers with separate networks and direct-attached storage. You can use the Power Systems Virtual Servers to deploy a virtual server, also known as a logical partition (LPAR), in a matter of minutes. IBM Power Systems clients who have typically relied upon on-premises-only infrastructure can now quickly and economically extend their Power IT resources off-premises. Avoid the large capital expense or added risk when migrating your essential workloads and get started with Power Systems Virtual Servers today!

In the data centers, the Power Systems Virtual Servers are separated from the rest of the IBM Cloud servers with separate networks and direct-attached storage. The internal networks are fenced but offer connectivity options to IBM Cloud infrastructure or on-premises environments. This infrastructure design enables Power Systems Virtual Servers to maintain key enterprise software certification and support as the Power Systems Virtual Server architecture is identical to certified on-premises infrastructure.

On this page

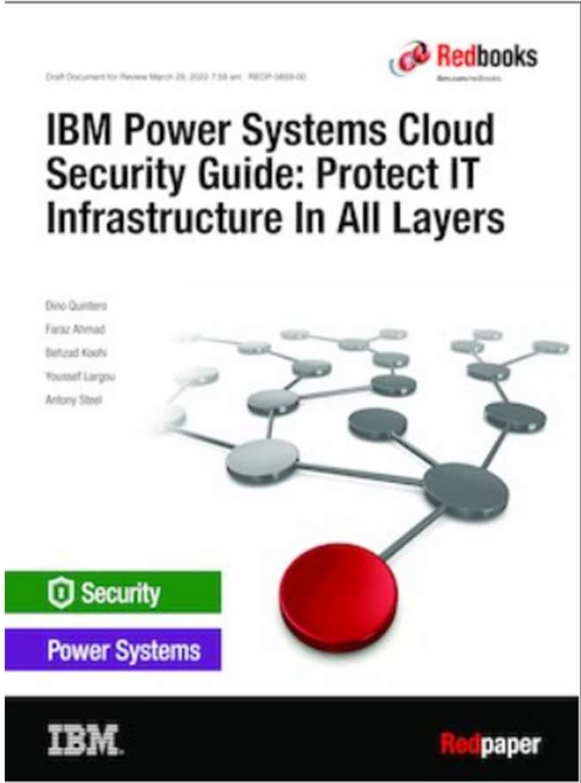
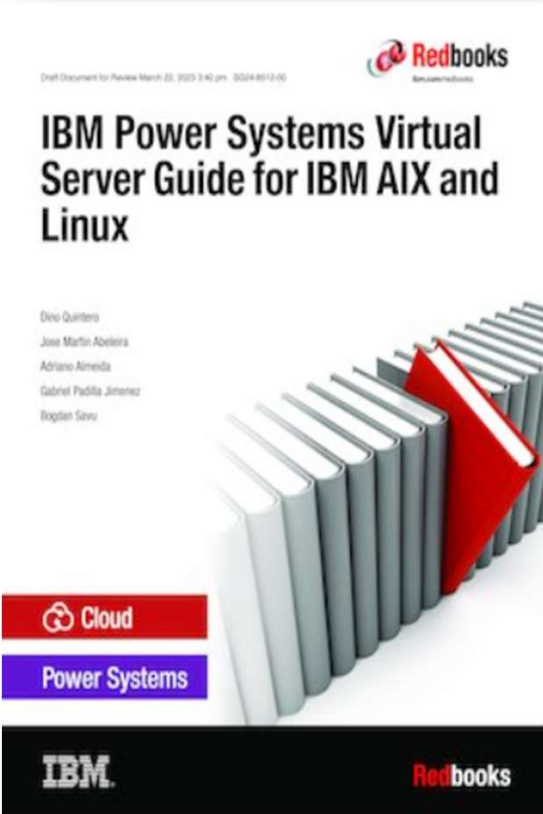
Terminology

Before you begin

Next steps



# Redbooks





**The  
world's  
best  
landing  
zone for  
IBM Power  
workloads**

Distributed hybrid infrastructure

For mission critical workload

Intentional workload placement

Move to cloud with confidence

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