Can Cloud help me to accomplish my DR and Cyber Resilency Goals

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IBM

Your business faces various threats

Natural Threats

Geo-political Threats
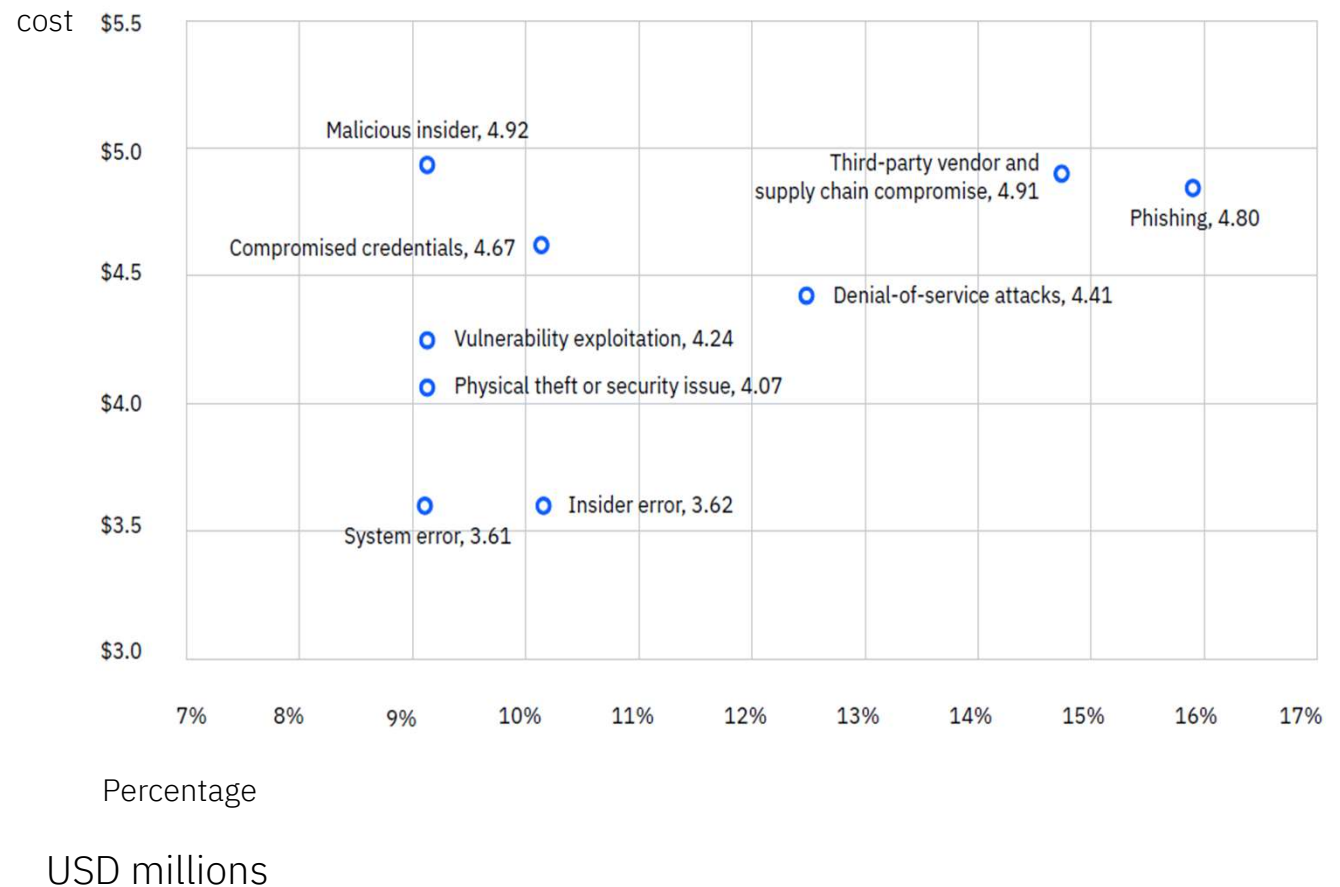
Human Threats

Average cost and percentage of data breaches

USD 4.44 million
The global average breach cost dropped to USD 4.44 million, a 9% decrease. Faster identification and containment of breaches
The global average would have been lower were it not for the United States, Higher regulatory fines and higher detection and escalation costs in the United States contributed to this surge.
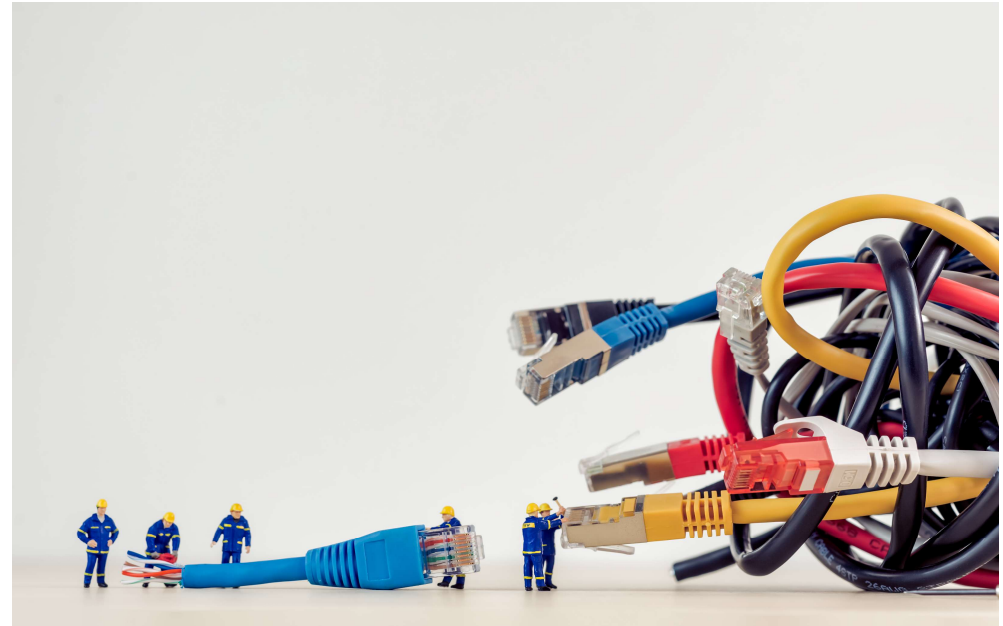
Get the 2025 report

cost $5.5

$5.0   Malicious insider, 4.92   Third-party vendor and supply chain compromise, 4.91

Phishing, 4.80

Compromised credentials, 4.67

$4.5   Denial-of-service attacks, 4.41

Vulnerability exploitation, 4.24

$4.0   Physical theft or security issue, 4.07

$3.5   System error, 3.61   Insider error, 3.62

$3.0

7%   8%   9%   10%   11%   12%   13%   14%   15%   16%   17%

Percentage

USD millions

Cost of downtime

How much money does a customer's business lose per minute of unavailability?

- Unplanned outages bring applications down and generate a lot of distress among the IT staff, impacting productivity significantly
- In addition to unplanned outages and security exposures, customers must consider planned outages

"ITIC's 11th annual [average] Hourly Cost of Downtime Survey data indicates that 97% of large enterprises with more than 1000 employees say that on average, a single hour of downtime per year costs their company over $100,000. Even more significantly: four in 10 enterprises - 41% - indicate that hourly downtime costs their firms $1 million to over $5 million."

*"In a worst case scenario the monetary losses to the organization can reach and even exceed millions per minute. Among SMBs with 20 to 100 employees, 57% of companies said an hour of downtime cost their companies up to $100,000 an Hour**"*

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.

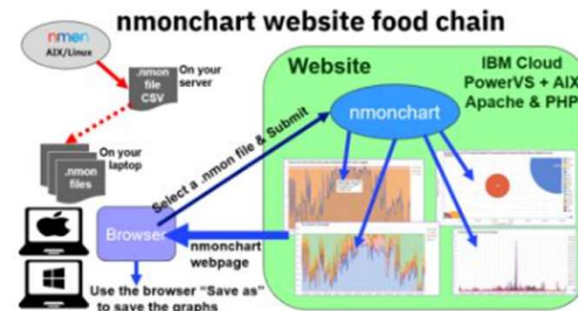AIX on the Internet with the IP address in a YouTube video description about the free nmon file graphing website.

HACKING SO FAR:

100 Uptime days

733,076 Hacking attempts

From **9346** unique addresses

All reported in /etc/failedlogin file
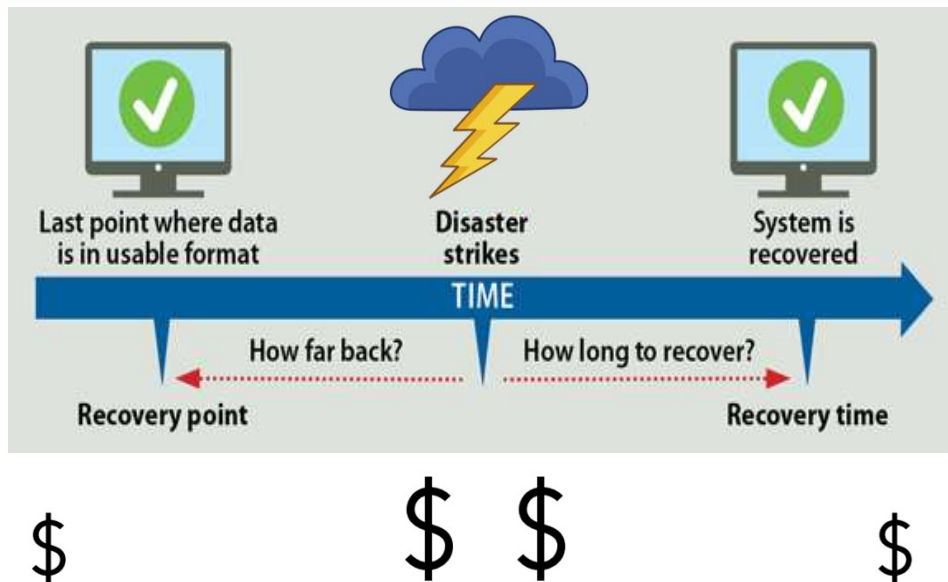
Well done, **IBM PowerVS** & default **AIX security**

Default AIX 7.3 password rules are large & complex

You and 58 others

1 comment • 5 reposts

How close to "Anytime" or "All the time" do you need?

Last point where data is in usable format

Disaster strikes

System is recovered

TIME

How far back?

How long to recover?

Recovery point

Recovery time

$ $ $ $

The closer to real time, the higher the cost of the solution will be

- Recovery Point Objective (RPO)
  - How much time are you willing to let pass between your last good data and your next good data?

- Recovery Time Objective (RTO)
  - How long are you willing to accept your application cannot do its work?

Add cloud to your business continuity strategy for added protection

On premises → On premises

Location:
- Technology closet
- CFO's home
- Iron Mountain
- Redundant tape drives
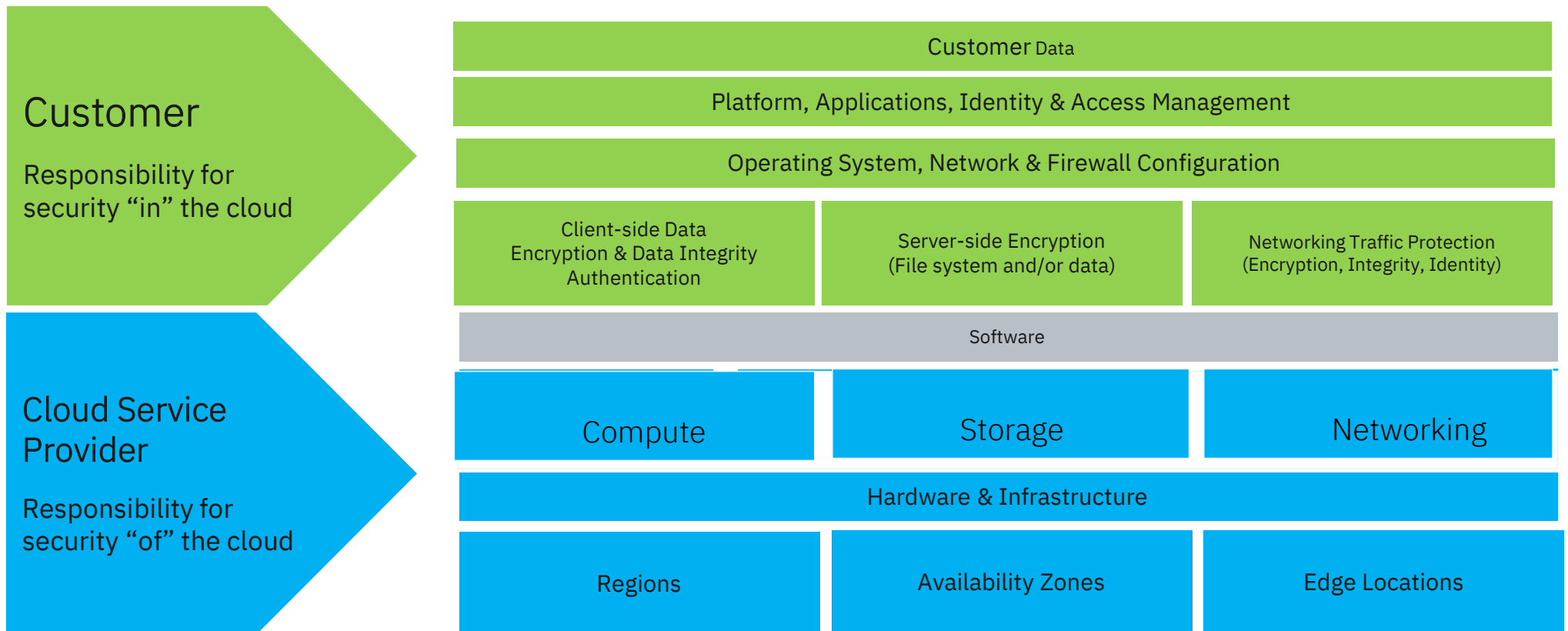

- High risk
- Slow recovery time
- Vulnerable
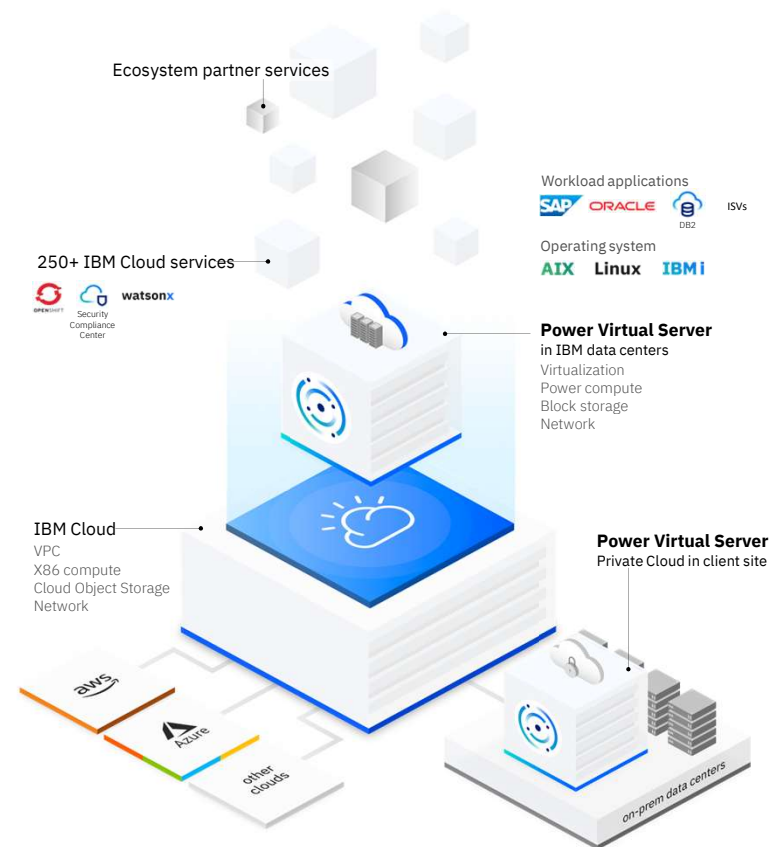
.

On premises → Cloud

Location:
- Cloud
- off premise

- Digital
- Resilient
- Available
- Fast recovery time

Security in the public cloud is a shared responsibility

Customer

Responsibility for security "in" the cloud

Cloud Service Provider

Responsibility for security "of" the cloud

Customer Data		
Platform, Applications, Identity & Access Management		
Operating System, Network & Firewall Configuration		
Client-side Data Encryption & Data Integrity Authentication	Server-side Encryption (File system and/or data)	Networking Traffic Protection (Encryption, Integrity, Identity)
Software		
Compute	Storage	Networking
Hardware & Infrastructure		
Regions	Availability Zones	Edge Locations

IBM is investing in Power Virtual Server to create the world's best landing zone for IBM Power workloads

1. Extending the Power platform with a seamless hybrid experience

2. Provides comprehensive compliance and rich business continuity options

3. Strong and growing Ecosystem

Ecosystem partner services

Workload applications
SAP ORACLE DB2 ISVs

Operating system
AIX Linux IBMi

250+ IBM Cloud services
OPENSHIFT Security Compliance Center watsonx

Power Virtual Server
in IBM data centers
Virtualization
Power compute
Block storage
Network

IBM Cloud
VPC
X86 compute
Cloud Object Storage
Network

Power Virtual Server
Private Cloud in client site

aws
Azure
other clouds
on-prem data centers

Built on the foundation of reliability, availability, security, scalability of the IBM Power platform

Four patterns Power customers use to accelerate impact with hybrid cloud

850+
production
clients

22
datacenters
worldwide

Strengthen business resiliency of your on-premises IBM Power with PowerVS backup and warm DR

Accelerate application modernization and jumpstart validation of Power11 with development/test on PowerVS

Optimize datacenter with workload placement on premises, or with public or private cloud

Accelerate adoption of RISE with SAP utilizing PowerVS, the fastest and least disruptive path to transform your business

IBM Power Virtual Server in 2025

Significant Features Announced:

✓ Power11 simultaneous launch in PowerVS

✓ Dynamic flexibility for all IBM i software licensing tiers

✓ New release of Migrate While Active

✓ Share processor pool optimization

IBM Power Virtual Server now elevated with the introduction of Power11
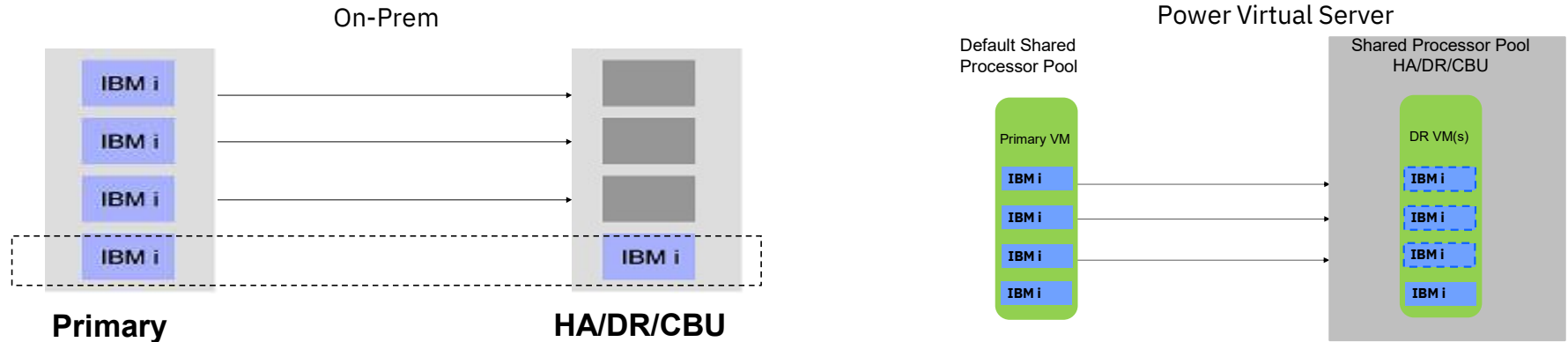
Power11 day one availability in PowerVS

All IBM i Software Tiers Now Available in IBM Power Virtual Server (PowerVS)

- PowerVS has been expanded to support the full range of IBM i software tiers - P05, P10, P20, and P30 - on both Power10 and Power11 systems. Based on recently added Virtual Serial Number (VSN) capabilities, clients can select and be billed based on their specific core and memory needs, and flexibly scale between tiers, independent of physical hardware.
  - This offers more flexible IBM i licensing by offering new IBM i price-points
  - It will also provide benefit for clients with ISVs that license by software tier by offering more options

- PowerVS options for IBM i
  - S1x22 will allow P05, P10 and P20 software tiers
  - E1x80 will allow P10, P20 and P30 software tiers

- Pre-requisites
  - IBM i 7.3 (Power10) or 7.4 (Power11) or later
  - Virtual Serial Number (VSN)
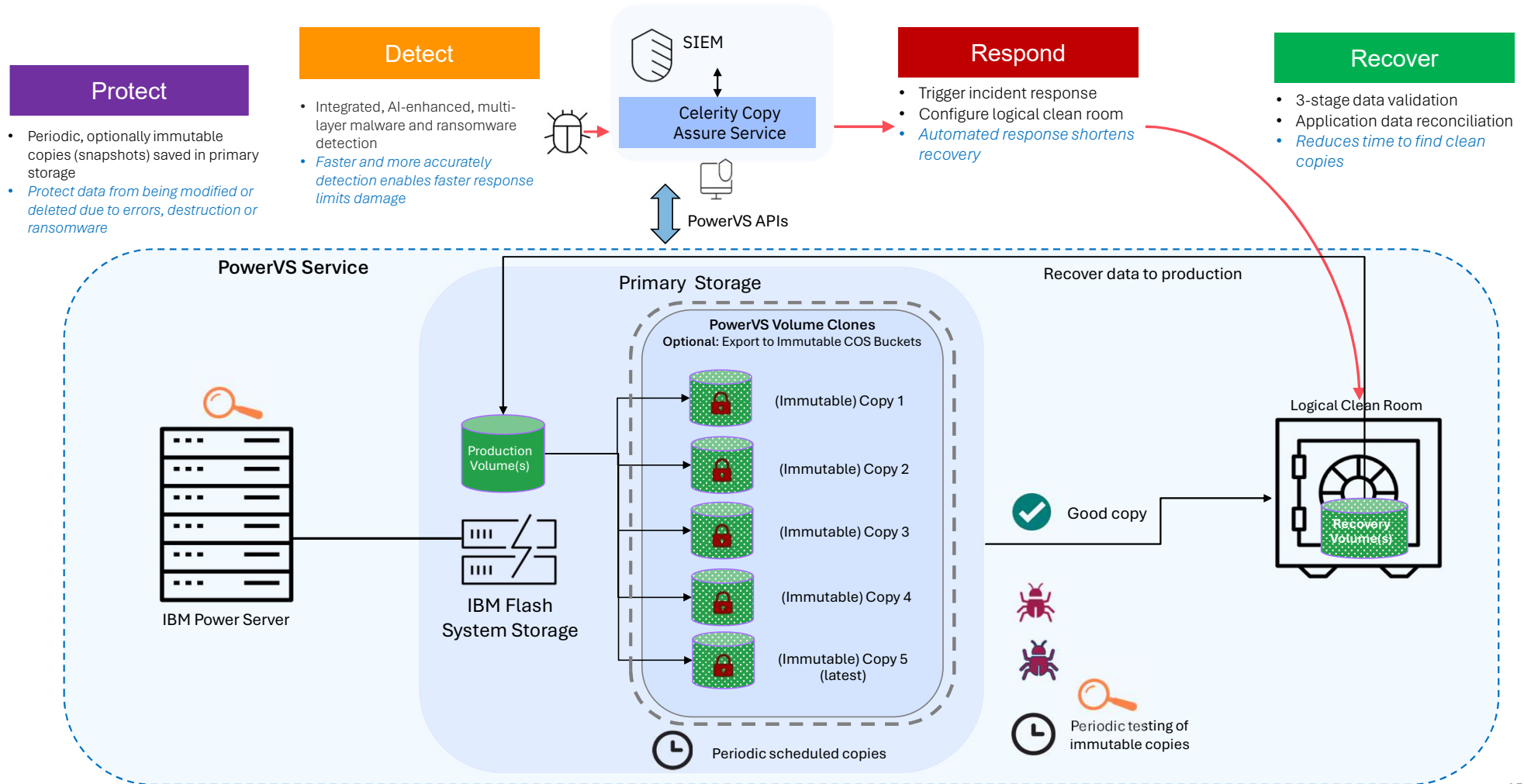 - Power10 or Power11 server

Tier	Core	Memory
P05	Up to 1	Up to 64 GB
P10	Up to 4	Up to 1 TB
P20	Up to 12	Up to 1 TB
P30	Up to MAX	Up to MAX

IBM Power Virtual Server HA/DR IBM i Licensing

On-Prem

Primary

HA/DR/CBU

Power Virtual Server

Default Shared Processor Pool

Shared Processor Pool HA/DR/CBU

Primary VM

DR VM(s)

- Desire; provide a way for a customer to assure/reserve hardware resources such as cores and memory like they would with the on-prem CBU (Capacity Backup Unit) offering for HA/DR operations, and help optimize IBM i OS licensing

- Use a Power Virtual Server Shared Processor Pool (SPP) to optimize "DR side" OS licenses
  - Customer creates a shared processor pool with cores = X
    - ...where X = the maximum number of cores that the partition(s) will potentially need
    - This step effectively ensures the customer has access to the cores whenever they're needed for any VM in the pool
  - To achieve the benefit of "optimized DR pricing," customer deploys a VM(s) in the SPP with a small amount of entitled capacity (e.g., 0.25 cores) and whatever memory/storage they need
    - Customer will NOT be charged for the cores since they're already paying for the cores as part of the SPP creation
    - Customer will only pay for 0.25 cores of IBM i OS license charges
    - Customer will be charged for the memory BAU
  - When a HA/DR event occurs, customer can resize the VM(s) up to the appropriate number of cores they need and will pay for the appropriate IBM i OS's BAU – e.g., if they scale up to 4 cores, they'll pay for 4 cores of OS licenses

IBM Power Cyber Vault for PowerVS

Protect
- Periodic, optionally immutable copies (snapshots) saved in primary storage
- *Protect data from being modified or deleted due to errors, destruction or ransomware*

Detect
- Integrated, AI-enhanced, multi-layer malware and ransomware detection
- *Faster and more accurately detection enables faster response limits damage*

SIEM

Celerity Copy Assure Service

PowerVS APIs

Respond
- Trigger incident response
- Configure logical clean room
- *Automated response shortens recovery*

Recover
- 3-stage data validation
- Application data reconciliation
- *Reduces time to find clean copies*

PowerVS Service

Primary Storage

Recover data to production

PowerVS Volume Clones
Optional: Export to Immutable COS Buckets

Production Volume(s)

(Immutable) Copy 1
(Immutable) Copy 2
(Immutable) Copy 3
(Immutable) Copy 4
(Immutable) Copy 5 (latest)

IBM Power Server

IBM Flash System Storage

Good copy

Logical Clean Room

Recovery Volume(s)

Periodic testing of immutable copies

Periodic scheduled copies

15

Strengthen Business Resiliency

80%

Lower Costs for reliable disaster recovery[1]

Common Pain Points:

- Ineffective on-premises business continuity strategies

- High cost of maintaining secondary data center infrastructure footprint for disaster recovery

- Regulatory changes demanding maintaining data in at least 3 different physical sites

Power Virtual Server provides:

Flexible tools/options for back-up to cloud

Leverage PowerVS as a target for on-premises back-up

Minimally size DR in cloud and burst up when needed

Reserve capacity with shared processor pools; define 'skinny' VSIs for DR until needed

Cloud object storage

Leverage cloud object storage for most cost-effective storage with options for immutability

Tiered block storage

Leverage smart storage tiers to lower TCO for block storage volumes attached to DR VSIs

JFW — JIM'S FORMAL WEAR — EMPLOYEE OWNED

NATIONAL VAN LINES, INC. WORLDWIDE

Proximity

European Food Manufacturer

[1] Proximity Story

Why Business Continuity & Data Resiliency in Power Virtual Server?
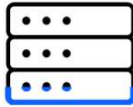
Optimize DR Infrastructure Costs

- Reduce DR Infrastructure by being able to scale cores and memory dynamically
- Guarantee capacity with Shared Processor Pools
- Switch between storage tiers dynamically
- Avoid cost duplicate infrastructure on-premises
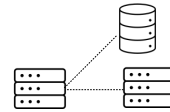
Leverage Enterprise Backups & Replication Solutions

- Access an ecosystem of backup solutions
- Leverage cloud replication services like GRS & VM Recovery Manager
- Bring your clients' proprietary & 3rd party tools to Power Virtual Server.

Low-Cost Archival

- Options for Low-cost Cloud Object Storage and Smart Tiering
- KYOK capabilities with FIPS 140-2 Level 4 Encryption

Power Virtual Server: Built-in Resiliency & High Availability

IBM Power Virtual Server

Control plane Resiliency

- Built-in HA within a single zone with Multiple Service Brokers per zone (3 SB per zone)
- Zones are >8 miles apart, so there is business continuity (BC) protection with the multiple zones within a region

Data plane Resiliency

- Default VM HA: VMs will restart on other systems when a system fails (Simplified Remote Restart)
- For maintenance window: Live Partition Mobility(LPM)
- Redundant Infrastructure: Storage Controllers, Compute, VIOS, Switches, etc.

Native Copy Capabilities

- IBM i and AIX offers native copy solutions:
  - Image Capture (capture VM and store locally or export to COS)
  - Snapshot via API (ideal for rollback)
  - Volume Clones ***

Part of a Full System Flash Copy (FSFC) process*****
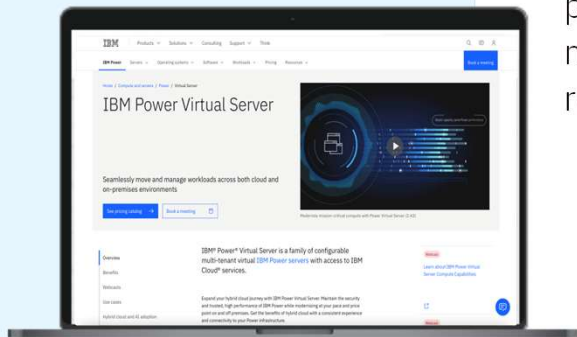
IBM Power Virtual Server

IBM i Solutions

If you need backup and restore options, 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
- Cobalt Iron
- FalconStor VTL
- IBM PowerHA geographic mirrioring

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.

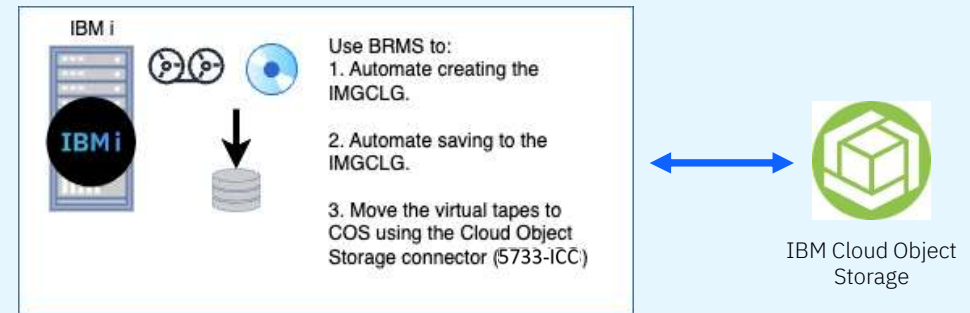Can create a Power Virtual Server Instance (VSI) and restore with the data in COS

Use Native IBM i Tools

IBM i

1. Save to a traditional save device

2. Duplicate physical media to virtual media

3. Move the virtual tapes to COS using FTP
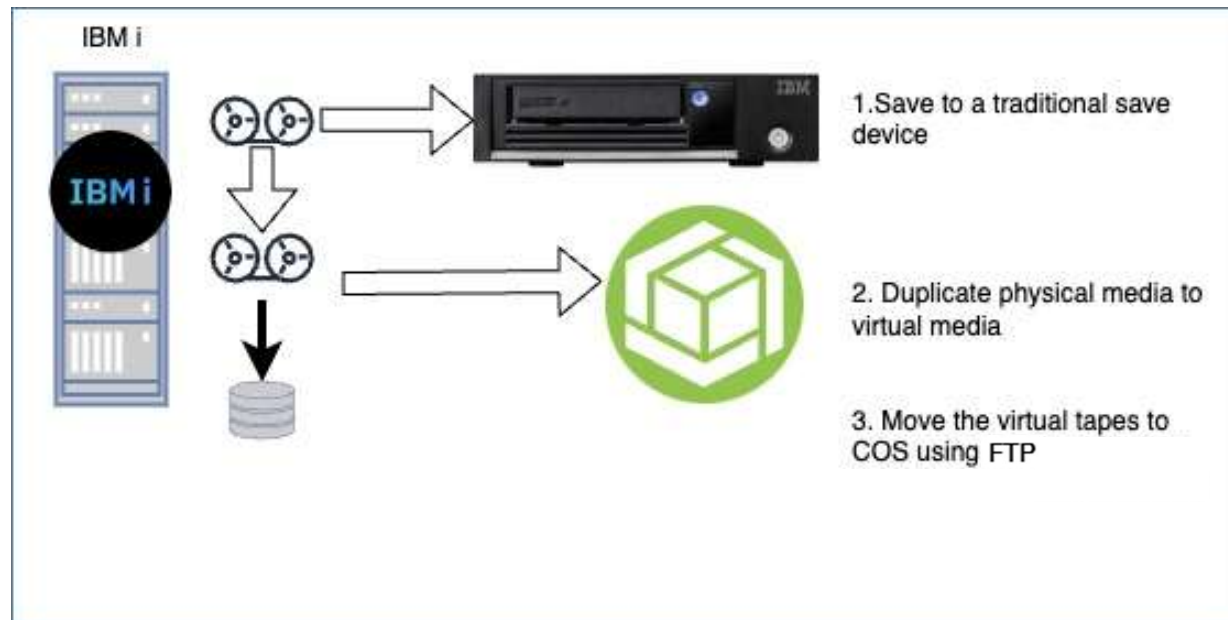
BRMS/ICC

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

Install/configure BRMS and ICC for an on-premises to cloud backup solution. This 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.

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

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
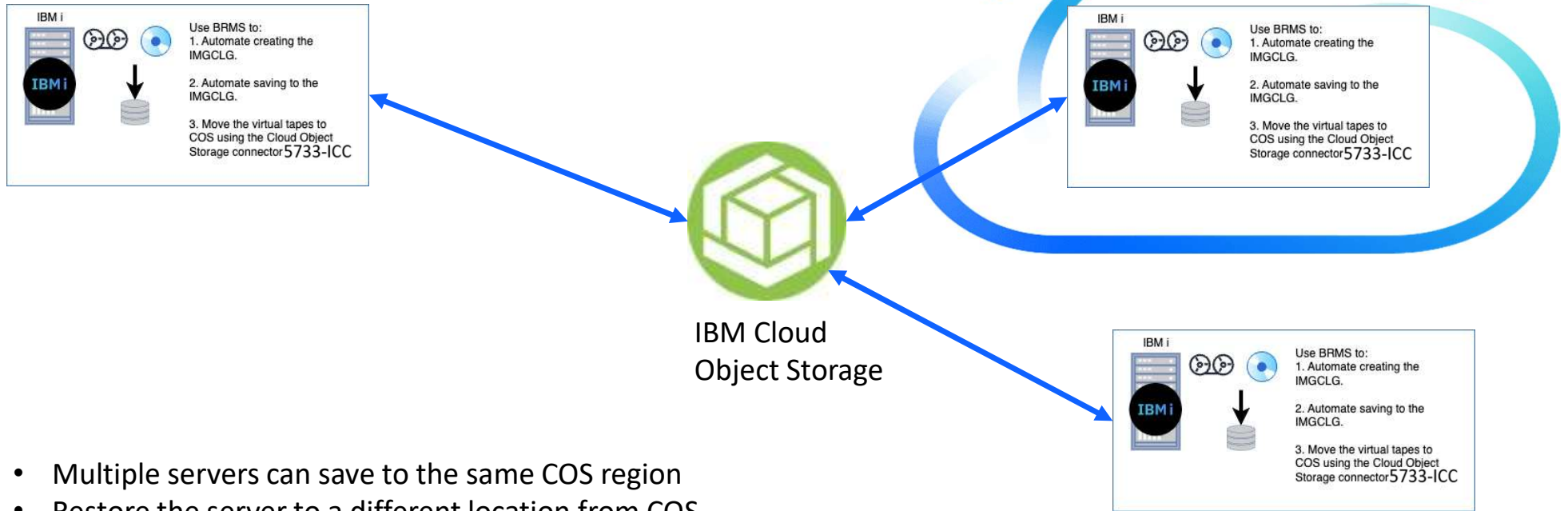- Capable of restoring in Power Virtual Server as a clean room as part of a cyber resiliency strategy
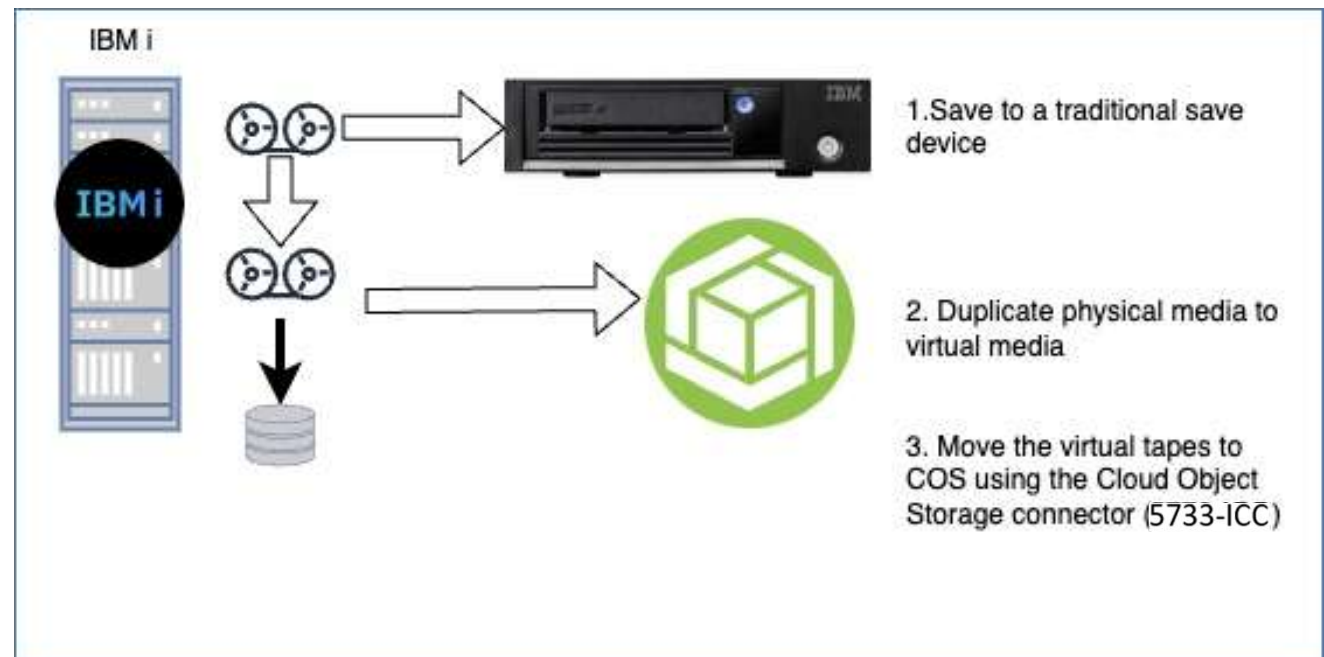
BRMS with ICC

- 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

IBM i

Use BRMS to:
1. Automate creating the IMGCLG.

2. Automate saving to the IMGCLG.

3. Move the virtual tapes to COS using the Cloud Object Storage connector (5733-ICC)

IBM Cloud Object Storage

BRMS with ICC

IBM i
Use BRMS to:
1. Automate creating the IMGCLG.

2. Automate saving to the IMGCLG.

3. Move the virtual tapes to COS using the Cloud Object Storage connector 5733-ICC

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IBM i
Use BRMS to:
1. Automate creating the IMGCLG.

2. Automate saving to the IMGCLG.

3. Move the virtual tapes to COS using the Cloud Object Storage connector 5733-ICC

IBM Cloud
Object Storage

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

Cobalt Iron

Delivering Protection: Customer Workloads Compass Secures

Solution listing in IBM Cloud Marketplace:

Secure Automated Backup with Compass®
By Cobalt Iron®

Compass protects a variety of platforms, applications, and data classes

What is Compass for Power Virtual Server?

Complete backup solution leveraging IBM Storage Protect to backup and recover Power Virtual Servers

Industry leading end-to-end cyber security protection for backup landscape

Extensive automation delivers simplicity and consistency through analytics

Single web dashboard to manage hybrid enterprise data protection both in-cloud and on-premises
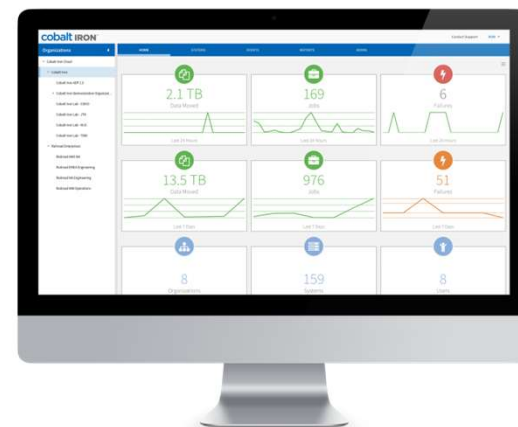
Shared priced $/GB per month – stored utilization after deduplication & compression

Hybrid Backup: Flexible Options and Patterns
PowerVS and Non-PowerVS Platforms

Customer Journey Elements

1. PowerVS Workspace
2. Corporate networking setup
3. Enroll Workloads from anywhere

IBM Cloud – Region 1

PowerVS Workspace
Example: Production

Backup and Restore

Compass Vault
Primary Protected Copy

IBM Cloud – Region 2

PowerVS Workspace
Example: Test / DR

Failover and Restore

DR and Test Backup and Restores

Compass Vault
Secondary Protected Copy

Replication

Classic / VPC

Intel Workloads

Failover and Restore

IBM Cloud Data Centers

Backup and Restore

Backup and Restore

- -

Customer On-premises Data Centers

Power Workloads

Intel Workloads

Customer Data Center

Failover and Restore

Replication

Backup and Restore

Compass Vault
Primary Protected Copy

Ready, Set, Compass for PowerVS: Find in the IBM Cloud Catalog

STEP 1: Search and Select
"Secure Automated Backup with Compass"
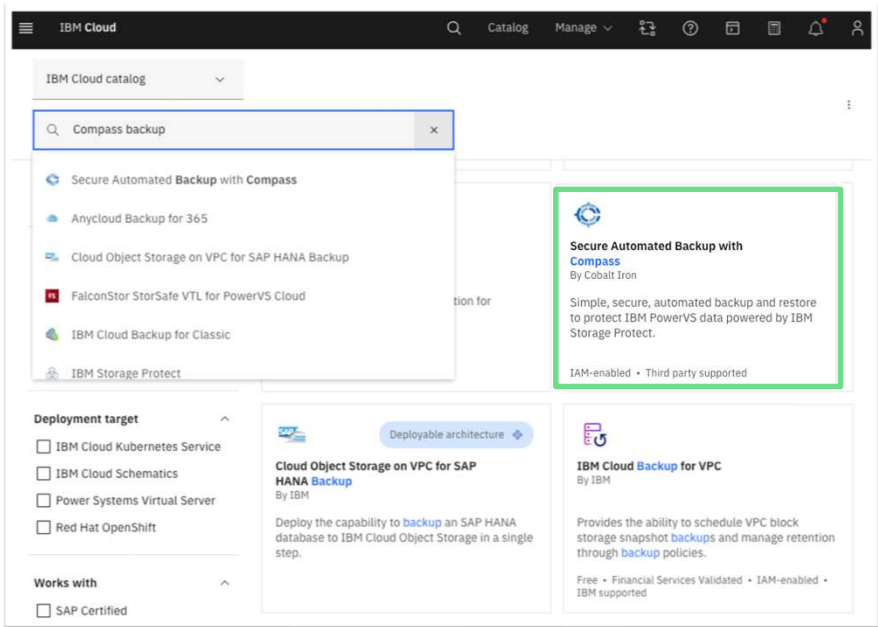
STEP 2: Complete Details and Press "Create"
Button to Build Required Resources
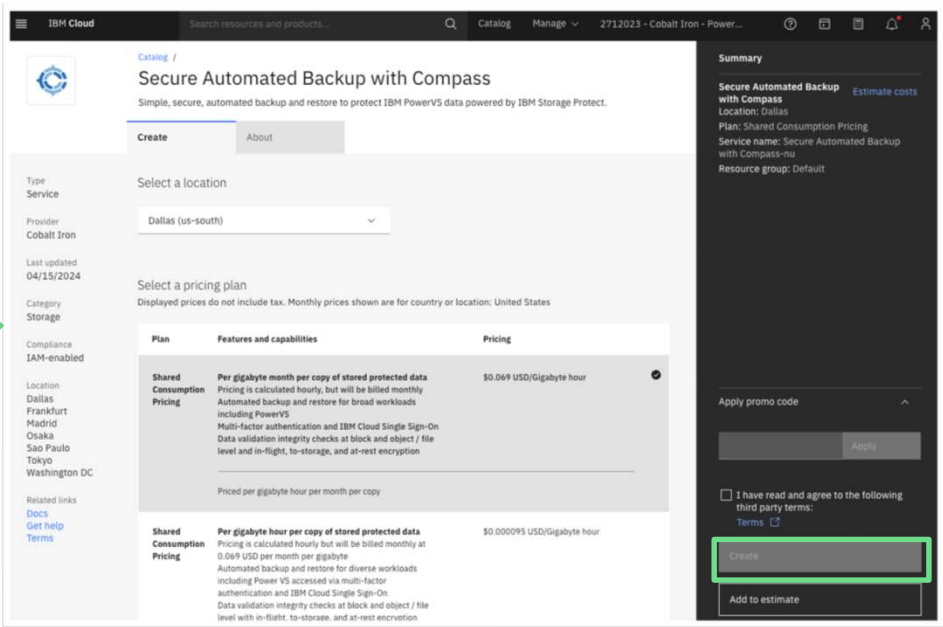
Compass Tape Gateway – VTL Feature
In-Cloud and On-Premises Data Protection for IBM i

- Enterprise data protection solution delivered in a **SaaS model** on **certified platforms**

- **Modernization** of physical and virtual tape environments

- Transparent integration of virtual tape data into **data center, remote sites, and cloud**

- **Multi-tenant support** for VTL workloads on a Compass Vault

- **Integrated management** of VTL operations

- **Proactively managed**, monitored, and maintained environment by Compass analytics

- **RESTful API** for log posting to Compass

- Options for **tape volume migration**

FalconStor

FalconStor StorSafe Benefits
Fast, Integrated, Secure, Scalable

Fast, Integrated, Secure, and Scalable

- 100% compatible with any open systems and backup software

- Highly efficient deduplication technology can reduce the size of backups by up to 95%, significantly reducing storage costs

- Scalability from just a single VM to several servers

- Up to 10X faster backups and restores vs. leading backup-to-disk appliances with up to 40TB/hour performance

- Offsite protection built-in to transmit a copy of each backup offsite

Customers Interested in…

- Modernization for optimum performance of on-prem backup and recovery processes; moving to hybrid cloud

- Migration of workloads or tape to PowerVS with fast backups and recovery for IBM i/AIX/Linux environments

- Addition of hybrid or cloud-native DR site that adds protection from Ransomware, including immutable retention that cannot be defeated by an admin or bad actor

- Support of IBM and industry-leading backup tools, applications and methods (BRMS, TSM/SP, Veeam, CommVault, ROBOT/SAVE, LXI MMS, SAVLIB, Oracle RMAN, SAP HANA, and media policies)

- Improving backup efficiencies and reducing storage costs with deduplication and advanced compression and low-cost IBM Cloud Object Storage

- Automation of backup and recovery processes to eliminate user disruption

StorSafe Multiple Layers of Security Defense

Data Tampering, Modifying, Destroying
- Tape Export to Immutable IBM Cloud Object Storage (COS) Vault: Immutable COS buckets
- Data-in-Transit protection - Offsite/Cloud multi-DC replica with AES256 Encryption

Data Privacy
- Immutable COS vault: COS's AES256 Encryption.
- StorSafe Tape export : AES256 Encryption with Customer Supplied Keys.
- Repository Data-at-Rest: AES256 Encryption
- Tape Shredding to DoD 5220.22-M ECE

Unauthorized Access
- IBM Cloud Object Storage: HMAC access keys
- User: Embedded Linux DoD security profile for strong username and strong passwords, Multi-Factor Authentication, IAM certificates in Clouds
- Network: Restricted network ports

On-going Security Threats
- Security Patches at least once a quarter to address CVEs

FalconStor available in IBM Cloud Catalog

FalconStor StorSafe for Power On-Premises
By FalconStor Software

Decrease your on-premise backup storage capacity by up to 90%, while improving your existing backup solution performance.

Service

FS

FalconStor StorSafe PowerVS Deployable Architecture
By FalconStor Software

Reduce your monthly PowerVS backup storage cost by up to 90%, while improving your existing backup solution performance.

Deployable architecture

FS

FalconStor StorSafe for PowerVS Cloud
By FalconStor Software

Reduce your monthly PowerVS backup storage cost by up to 90%, while improving your existing backup solution performance. This solution is applicable in native backup deployments in the cloud or cloud-to-cloud data replication fo...

Software

FS

Use Cases

Data Protection and Migration for IBM i/AIX/Linux & PowerVS/PowerVS Private Cloud

IBM Cloud
Object Storage

FALCONSTOR

Power
Virtual Server

FALCONSTOR
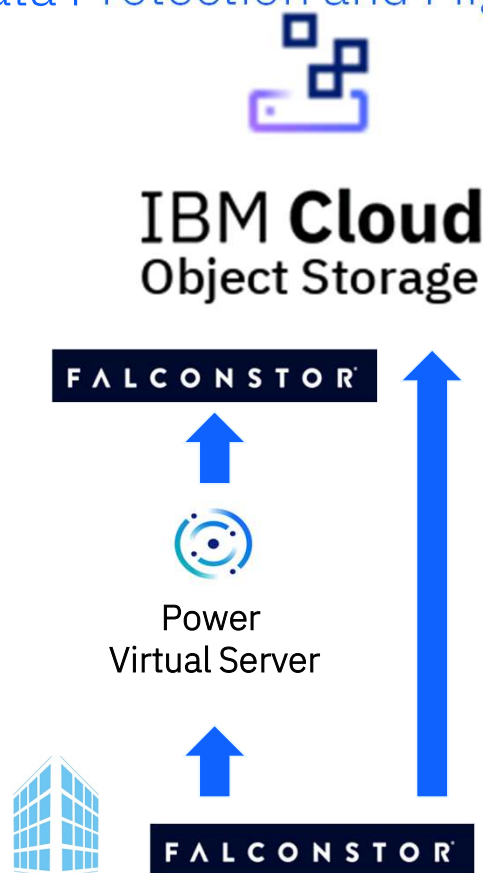
- **On-premises Backup Optimization**
  - Improve existing on-premises backup with state-of-the-art deduplication
- **Hybrid Cloud Backup**
  - Long-term retention, archive, and regulatory compliance
  - Ransomware protection
  - Export virtual tapes from on-premises or cloud to immutable COS
- **Migrate from On-Premises to PowerVS and COS**
  - Migrate workloads and legacy tapes from on-premises
- **Cloud Resident Backup**
  - Backup and restore from PowerVS-resident workloads to COS
- **Cloud Resident Disaster Recovery**
  - Replicate workloads to a second data center COS for recovery in the event of disaster

On-Premises Backup Optimization
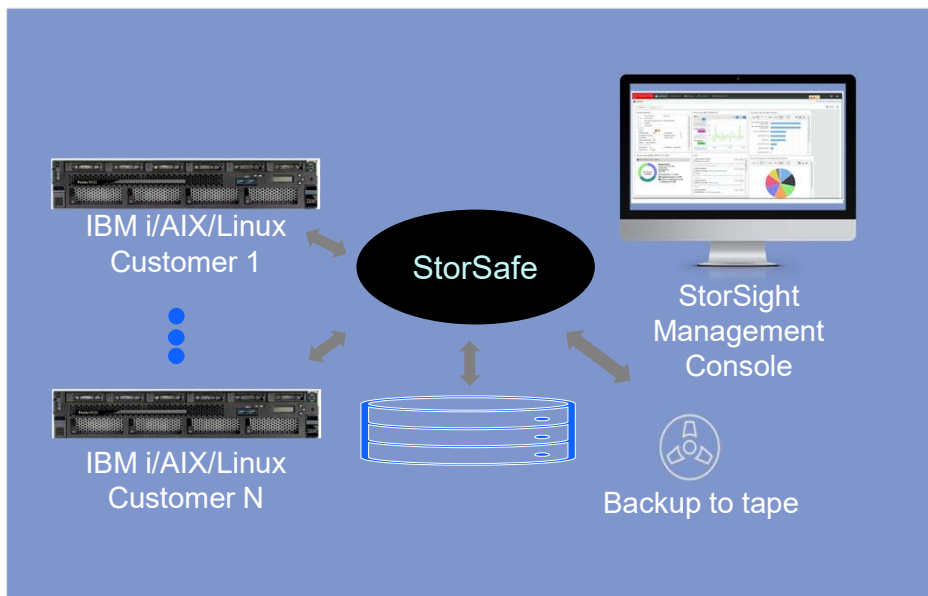
PROCESS
IBM i / AIX / Linux workloads on Power backed up via StorSafe

Ensure cost-effective, fast, and reliable backups and restores for all Power workloads

- Complementary with existing backup software

- Storage reduction up to 95% with global patented deduplication

- Utilizes any brand of server, internal disks, or external block or object storage

- 3-2-1 offsite protection with replication to IBM PowerVS, an MSP's cloud, Azure, AWS, or GCP

- Backups on-premises at up to 40TB per hour

- Immutable Object Storage with IBM COS for ransomware protection

Hybrid Cloud Backup

Customer Site Backup

IBM i/AIX

StorSafe

Asynch Replication

Storage

IBM PowerVS

IBM i/AIX

StorSafe

IBM Cloud Object Storage
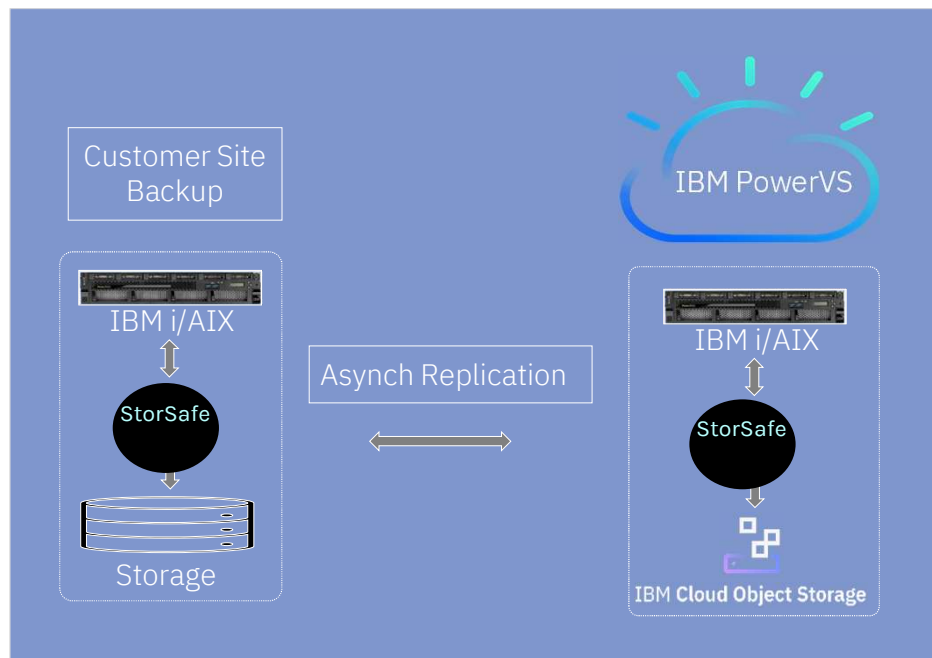
PROCESS
Copy deduplicated on-premises IBM i, AIX or Linux backups to IBM CLoud for long-term retention, archive, regulatory compliance, ransomware or disaster recovery

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
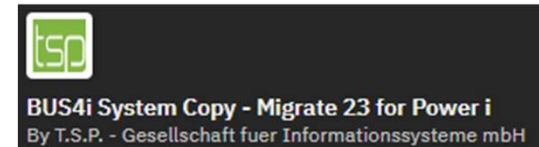
IBM Power Virtual Server

PowerHA Solutions

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If you need Disaster Recovery or High Availability options, you can count on IBM and Power Virtual Server to meet your requirements. Regardless if your strategy is Cloud or Hybrid Cloud, IBM has PowerHA solution available.

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IBM i solution:

- IBM PowerHA geographic mirroring

  - For customers with existing HA/DR solutions such as IBM PowerHA geo mirror and ISV logical replication solutions, Power Virtual Server can be setup as a target

  - For customers in Power Virtual Server, PowerHA is a selectable option

IBM Power Virtual Server

IBM i solution
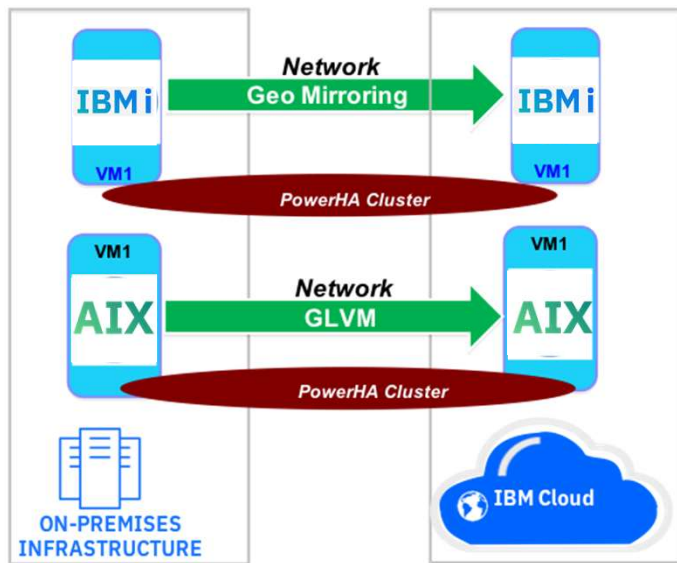
- IBM PowerHA Geographic mirroring – OS-based data-mirroring

  - IBM® **PowerHA**® technology provides high availability, business continuity and disaster recovery. Enables you to deploy an **DR** solution with one integrated configuration, robust performance with a simplified user interface.

  - Customer can use OS capabilities to setup DR backup site in Power public cloud using PowerHA

  - PowerHA-geomirroring allows for OS to OS mirroring across distance

  - For migrations to Power Virtual Server, BUS4i is available in the IBM Cloud Catalog

  - For customers in Power Virtual Server, PowerHA is a selectable option

IBM PowerHA Geo Mirroring
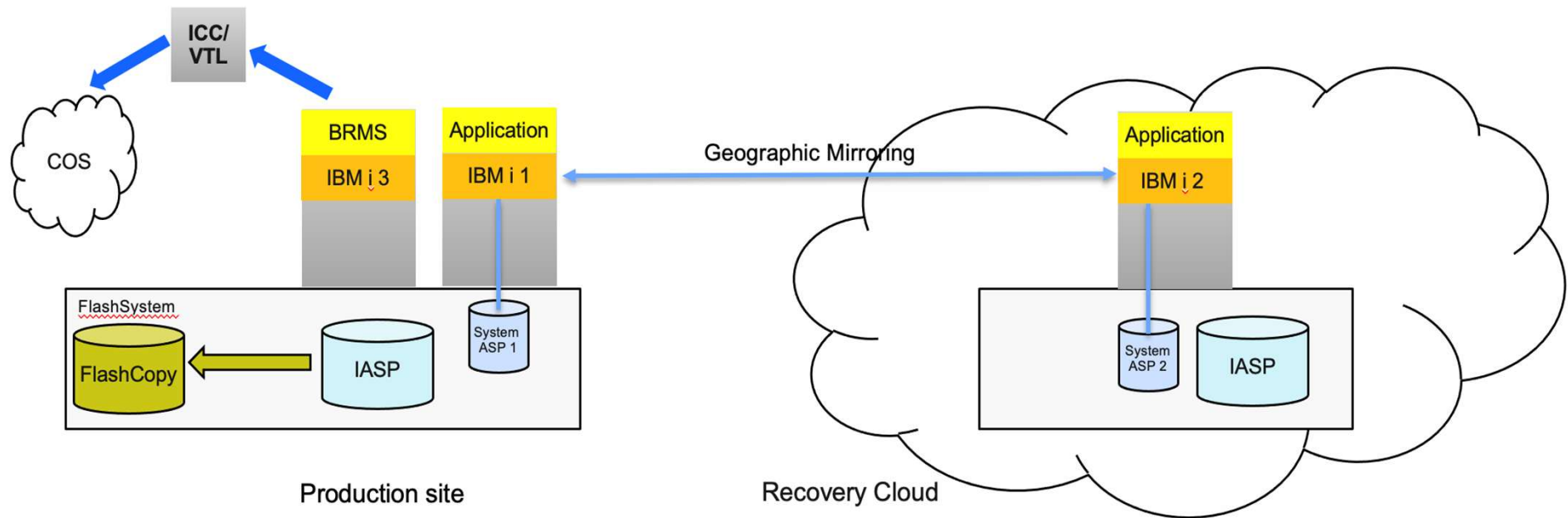
IBM Power Virtual Server

PowerHA Solutions

If you need Disaster Recovery or High Availability options, you can count on IBM and Power Virtual Server to meet your requirements. Regardless if your strategy is Cloud or Hybrid Cloud, IBM has in the cloud third-party solutions available.

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IBM i solution:

- ISV logical replication solutions

    - In the IBM Cloud Catalog Rocket iCluster is available as a third-party solution

    - For migrations to Power Virtual Server, BUS4i is available in the IBM Cloud Catalog

Rocket iCluster HA/DR
By Rocket Software, Inc.

BUS4i System Copy - Migrate 23 for Power i
By T.S.P. - Gesellschaft fuer Informationssysteme mbH

Power Virtual Server Compliance Certifications – Current + Roadmap

Compliance Profile	Comments
GDPR	Followed IBM corporate GDPR privacy and risk assessment processes
CCPA (California Privacy Law)	Followed IBM corporate CCPA assessment processes
NIS	Followed IBM corporate NIS assessment processes
LGPD (Brazil Privacy Law)	Followed IBM corporate assessment process
ISO 27001, 27017, 27018	First received on 9/1/2020; recertified in 2021, 2022, 2023 and 2024 (see Certificate)
SOC 1 Type II	First obtained on 12/2020; last report received on December 2024 (link).
PCI-DSS	PCI Attestation of Compliance (AOC) first received in 4Q 2022 Revalidated under new PCI-DSS v4 specification in 4Q 2024 (link).
SOC 2 Type II	Latest report received on December 2024 (link).
HIPAA Readiness	Assessed against all HIPAA controls by IBM HPO – service declared "HIPAA Ready" (February 2024) (link).
IBM Cloud for Financial Services	Completed validation against IBM FS Cloud Compliance Controls (May 2024) (link).
CSA (Cloud Security Alliance)	CSA STAR certified (link).
IRAP (Australia)	Report obtained June 2024. *Some exceptions in Sydney Data Center Physical Controls noted, will be addressed by migrating from collocated data centers to IBM Cloud managed data center that meet IRAP requirements.*
HITRUST	Certification by HITRUST Alliance obtained in December 2024
ISMAP (Japan)	Certification obtained on June 30, 2025, See IBM Cloud compliance link and ISMAP Website (listing is in Japanese)
Protected B (Canada)	End of 2025 *(Subject to change)*
ENS High (Spain)	End of 2025 *(Subject to change)*
FedRAMP	FedRAMP Moderate ~2027-2028 *(Subject to change)* Implementation of FedRamp moderate controls expected to be completed by IBM Cloud and PowerVS in 2026 and authorization expected to be obtained in 2027-2028, assuming an ~18-month review process.

Roadmap

Product Page

https://www.ibm.com/products/power-virtual-server

More info

IBM Cloud Docs / Power Virtual Server /

Release notes

Last updated 2025-05-20

Use these release notes to learn about the latest changes to the IBM® Power® Virtual Server.

May 2025

- If you have existing IBM Cloud Connections that are managed from non-PER enabled workspaces, you can now view and delete them using the IBM Cloud CLI ⧉ or API ⧉ from a PER-enabled workspace.

IBM data center

- The following RHEL OS stock images are refreshed and available for Power Virtual Servers in the IBM data centers:
  - RHEL 9.4 for SAP
  - RHEL 9.2 for SAP
  - RHEL 8.10 for SAP
  - RHEL 8.8 for SAP
  - RHEL 8.10 general purpose
  - RHEL 9.4 general purpose
- You can deploy SAP NetWeaver sr2 profiles on IBM Power servers. For more information, see SAP NetWeaver profiles.

April 2025

IBM data center

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Locations

Pricing

High availability and disaster recovery

Backup strategies

Migration strategies

Replication

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https://cloud.ibm.com/docs/power-iaas?topic=power-iaas-release-notes

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.

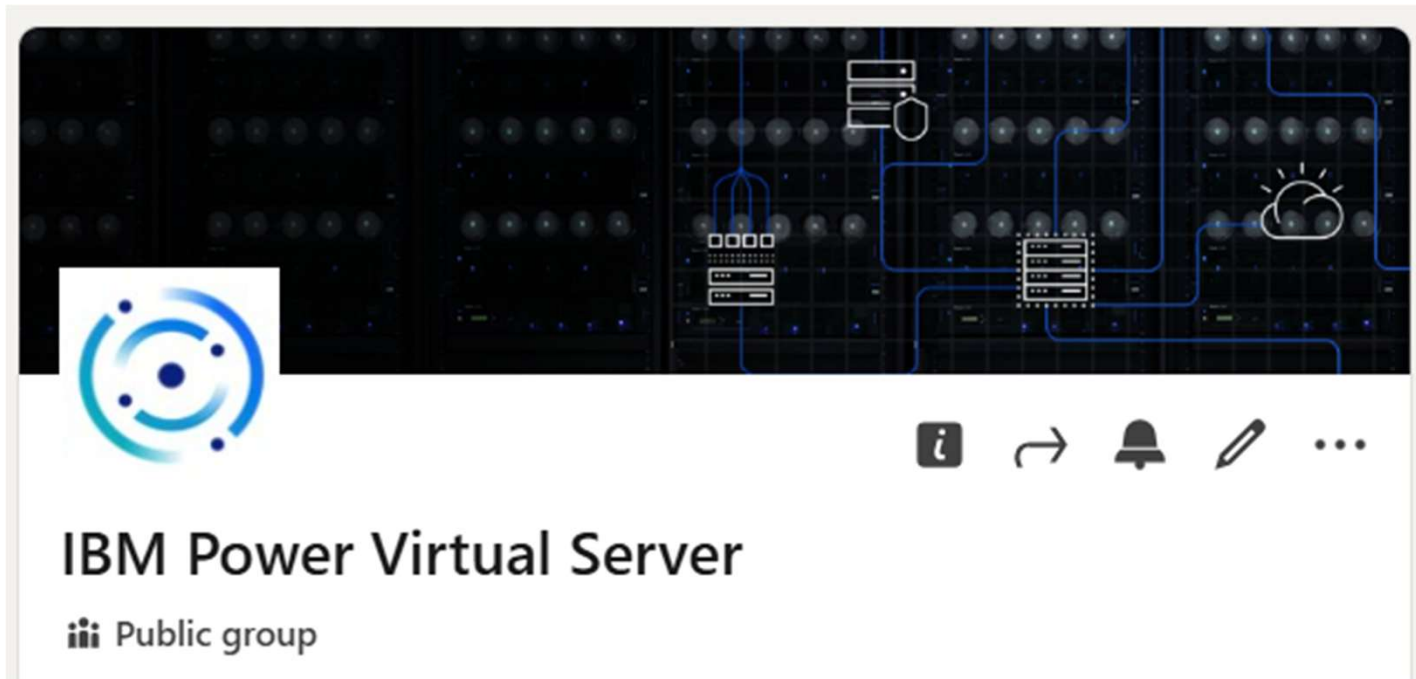To learn more about IBM Power Virtual Server, visit our product page

For an... ...act

* New clients nee... ...d in non-US datacenters... ...s only.

Please refer to the... ...is a discrepancy ...the contract will prevail.

Linkedin Group
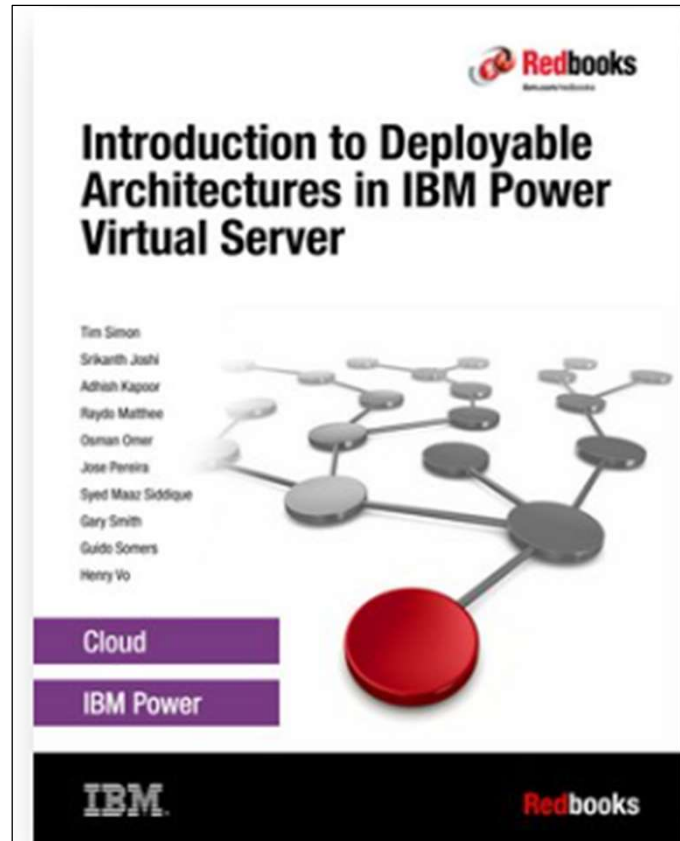

https://www.linkedin.com/groups/13173116

IBM Redbooks – Updated in 2025

https://www.redbooks.ibm.com/redpieces/abstracts/sg248513.html?Open

https://www.redbooks.ibm.com/abstracts/sg248576.html

https://www.redbooks.ibm.com/redpieces/abstracts/sg248512.html

IBM Redbooks – Updated in 2025

https://www.redbooks.ibm.com/abstracts/redp5659.html?Open

https://www.redbooks.ibm.com/abstracts/redp5745.html
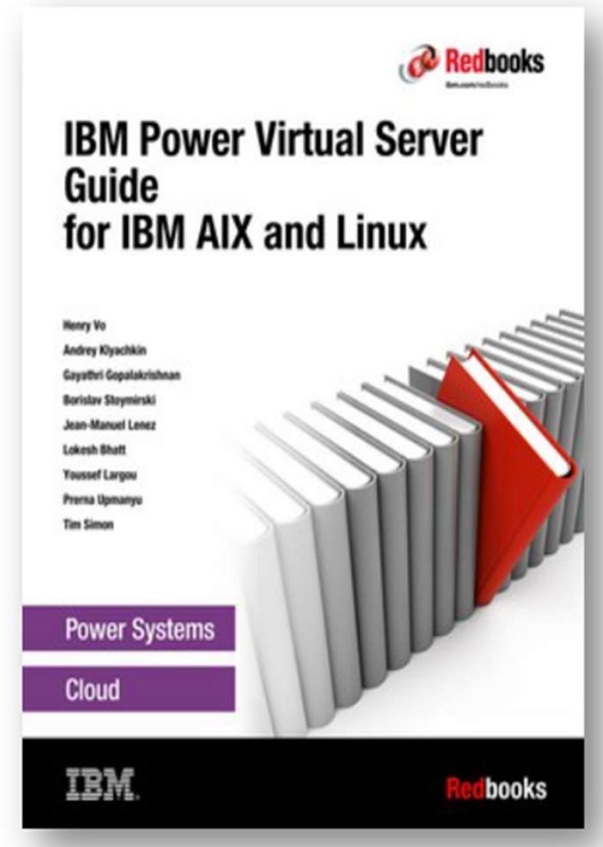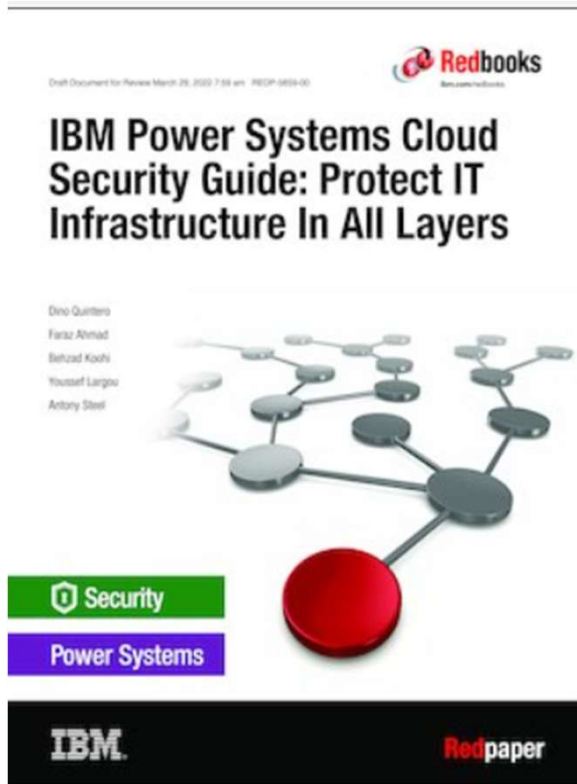
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