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Check out the digital presence:

<https://ibm.biz/power-hybrid-cloud>

Check out the white paper:

<https://www.ibm.com/downloads/cas/G4DO3DJE>

IBM

Power Systems

in the Hybrid

Multicloud World

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Performance is based on measurements and projections using standard IBM benchmarks in a controlled environment. The actual throughput or performance that any user will experience will vary depending upon many factors, including considerations such as the amount of multiprogramming in the user's job stream, the I/O configuration, the storage configuration, and the workload processed. Therefore, no assurance can be given that an individual user will achieve results similar to those stated here.

All customer examples described are presented as illustrations of how those customers have used IBM products and the results they may have achieved. Actual environmental costs and performance characteristics may vary by customer.

Agenda

Joe Cropper

Chief Architect

Power Systems Hybrid Cloud

Chuck Bryan

Offering Manager

Power Systems Hybrid Cloud

**Hybrid Multicloud
Strategy Overview**

**Public, Private and
Hybrid Cloud Solutions
and Technologies**

**Client Value, Use Cases
and How to Get Started**

Why IBM Power Systems in
Hybrid Multicloud

What is Hybrid Multicloud

Hybrid Cloud

A hybrid cloud is a computing environment that combines a **private cloud and a public cloud** by allowing applications and data to be shared between them.

Multicloud

Multicloud is a cloud approach made up of more than one cloud service, from **more than one cloud vendor**—public or private.

Hybrid Multicloud = Hybrid Cloud + Multicloud

A hybrid multicloud combines a private cloud, a public cloud and **more than one cloud** service, from **more than one cloud vendor**.

Hybrid cloud is the new normal

98%

of the organizations will use multiple hybrid cloud environments by 2021

31%

of all compute capacity will be in a Private, on premises cloud in 2 years

Source: [IBM Institute of Business Value A field guide to multicloud management](#)

Source: IDC, Cloud Pulse 1Q19: Executive Summary, Doc # US45419119, August 2019



Movement between clouds

73% priority concern



Connectivity between clouds

82% priority concern



Consistency of management

67% priority concern

Sources: IDC Cloud Forecast; BCG & McKinsey

Enterprises want or need to...

Simplify Infrastructure Management & Automation

simplify operations of their IT infrastructure

provision apps with ease and simplicity

run IBM i or AIX apps on systems managed elsewhere

get out of managing all the infrastructure

create a more "automated" environment

Integrate with VMware management solutions

Deliver a "Cloud Experience" to the Business & Increase Agility

apply internal charge metrics for server usage

convert existing apps on AIX/IBM i to Linux

create a self-service cloud experience within the data center

manage multiple clouds in a unified manner

deploy multi-arch apps in a repeatable, continuous DevOps model, but don't know where to start

understand the benefits of running a heterogeneous cloud infrastructure... and implement it!

Provide an Innovation Fabric for the Business

use as much open source software as possible

leverage AI technology to create next-gen innovation

understand the POWER relationship with ecosystem partners like VMware and Red Hat and how they can use the technologies

modernize existing apps to microservices & new software technologies

understand how to build an effective multicloud strategy that leverages all of their investments

build new applications using the latest software approaches

On Premises (Private Cloud), Off Premises (Public Cloud) or Both (Hybrid Cloud)

IBM and Red Hat: Hybrid Cloud Architecture Open Platform for Innovation and Growth

Business Requirements

World-class public cloud

IaaS & advanced services on IBM's public cloud

Hybrid multicloud platform

Consistent stack and management for multicloud—with VMs and containers

Business Outcomes

Build with the latest technology on any cloud

Expertise

Advise on cloud | Build for cloud | Move to cloud | Manage on cloud

Innovate faster with greater agility

High-value cloud services across hybrid multicloud

Advanced Services

AI | Hyper Protect | IoT | Blockchain | Analytics | ML | Quantum

Create more insights from data

Automation and app software and data portability with no lock-in

Capabilities

Application | Data | Integration | Automation | Management | Security

Improve ROI and competitive edge

Open platform and cloud software stack

Foundation

Common Services | RHEL | R | OpenShift | Multi-cluster Management

Infrastructure



IBM Cloud



AWS



Azure



Google



Edge

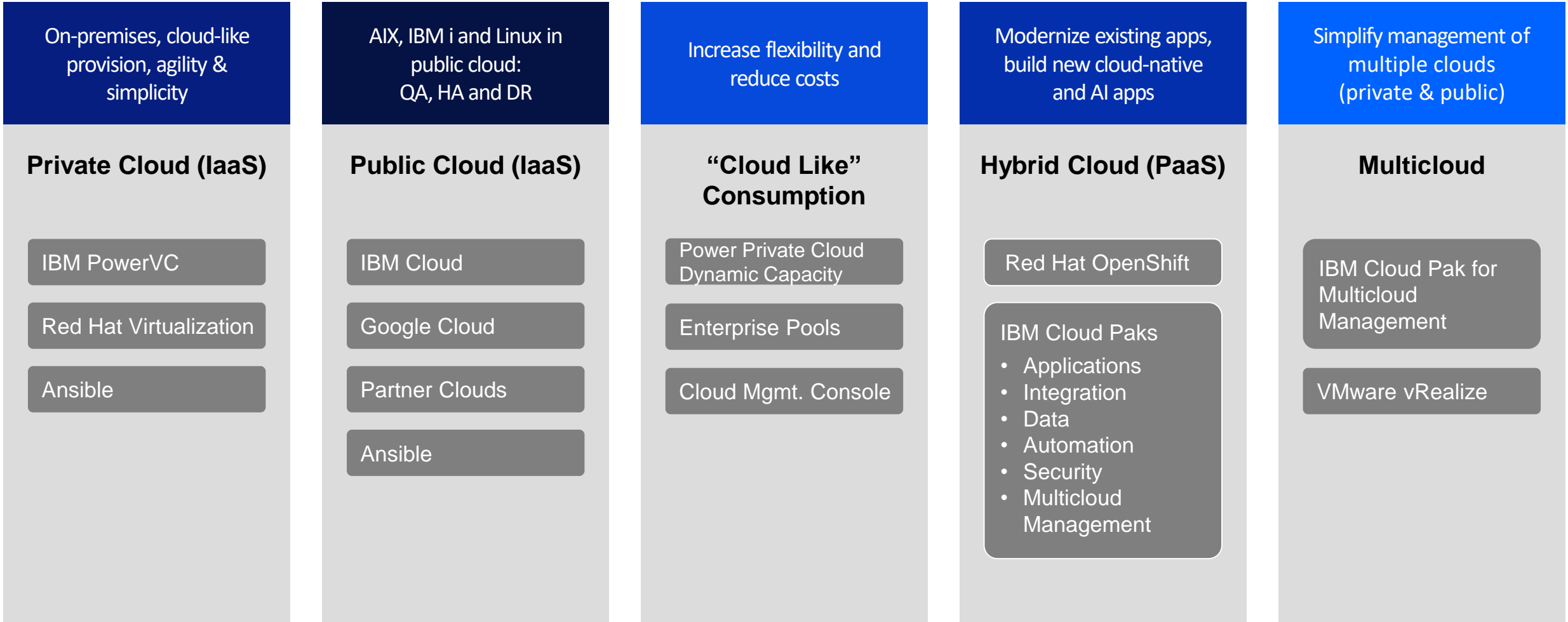


Private Cloud

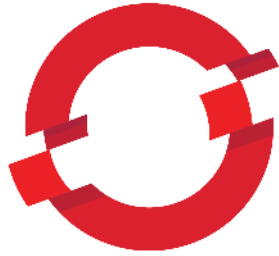


IBM Power Systems
IBM LinuxOne/z Sys.
IBM Storage

Flexibility and Choice of Cloud on Power Systems



Integration with Broad Cloud and DevOps Ecosystems



OPENSIFT

**Kubernetes (K8s) Container
Orchestration**



IBM Cloud Pak



ANSIBLE

Enterprise Automation



Red Hat CloudForms

**Comprehensive Hybrid
Multicloud Management**



HashiCorp

Terraform

Infrastructure-as-Code



vmware®

Industry Integration

IBM Power Systems in **Public Cloud**

IBM Power Systems Virtual Server on IBM Cloud



Power Systems in the IBM Cloud

- AIX and IBM i and Linux virtual machines **available on-demand**; hourly metered, billed monthly
- **Integrated into the IBM Cloud Catalog** for a consistent user experience and access to the cloud offering portfolio
- **Infrastructure equivalence** to on-prem with FC-SAN, VIOS and PowerVM
- Runs on Power Systems E880s, E980s and S922s
- API-enabled with **Ansible** and **Terraform** automation
- Geographies: Dallas, Washington DC, Frankfurt, London and Toronto

Success Stories

Major Manufacturing Company

Major Furniture Company

Leading European Tool & Equipment Manufacturer

Leading Fine Food Company

Use Cases

Test AIX and IBM i in public cloud

A separate, secure sandbox environment for Power Systems users to test their own AIX or IBM i workloads, try out new OS versions operating systems and the latest POWER hardware.

Run enterprise POWER workloads in public cloud

AIX and IBM i applications are no longer restricted to on-premise. Help clients create a hybrid multicloud environment with the ability to host their AIX and IBM i apps in public cloud.

Disaster recovery without double commitment

At present, AIX and IBM i clients need to build out their own data center to create a DR environment. Now, with public cloud, they get those options at a more affordable cost.

IBM Power Systems in **Private Cloud**

Why Power for Cloud Native – Flexible, Efficient Utilization

Dynamic scaling for cloud native workloads



Private Cloud on Power Systems

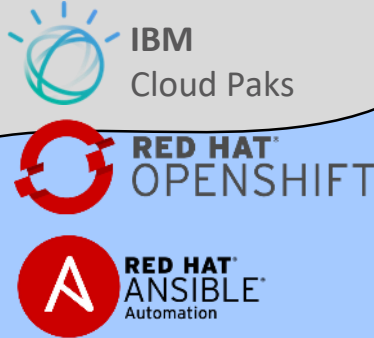
- No base monthly fees – pay for only what use with metering by the minute
- Self-service provisioning of private cloud IaaS for OpenStack and Cloud Paks
- Share resources across systems

Automatically monitor and debit against capacity credits based on actual usage by the minute

58%

lower entry TCA vs. P9 previous generation¹

Available Capacity (always on)



Dynamic Capacity (Pay-per-use, OPEX)

Permanent Capacity (Static/Base, CAPEX)

¹ 58% lower TCA is based on the minimum previous configuration for S922/20c/256GB memory (20c/256GB active) compared to the new Pools 2.0 S922 option with 20c/256GB (1c/256GB active) with AIX Enterprise Cloud Edition

IBM Power Systems in **Private Cloud**

Ansible

Learn more:

<https://ibm.biz/ansible-for-power>

Consistent enterprise automation across Power, Z and x86

Key Ansible use cases



Provisioning



Configuration
Management



Application
Deployment



Continuous
Delivery



Orchestration



Security
Automation

Consistency

- Consistent enterprise automation strategy across
 - z/OS, AIX, IBM i, Linux and Windows environments
 - Hybrid applications and infrastructure management

Transparency

- Complete visibility of z/OS, AIX, IBM i and Linux automation
- Drive best practices to manage automation and move towards infrastructure as code
- Contribute to breaking down cultural walls

Skills

- Leverage readily available Ansible and Python skills to automate z/OS, AIX, IBM i and Linux environments

v1 - Set config file to use on boot

1. Write multiple configuration files
 - For each environment/region
2. Inspect metadata on boot and use the matching config file



v1 - Set config file to use on boot

1. Write multiple configuration files
 - For each environment/region
2. Inspect metadata on boot and use the matching config file

24,000+

Stars on GitHub

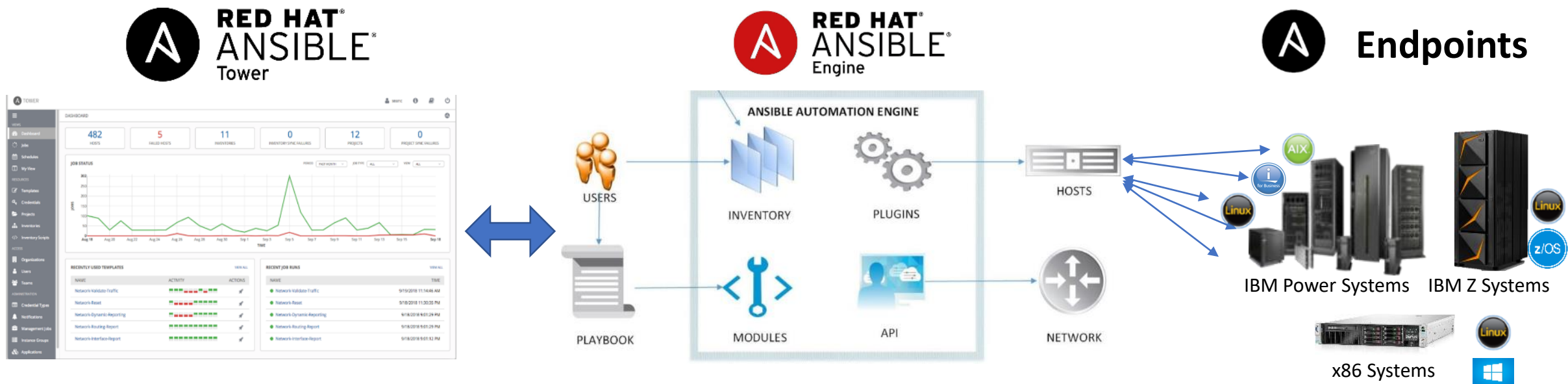
950+

Ansible modules

400,000+

Downloads a month

Ansible Automation for IBM Power Systems



1 Red Hat Ansible Tower

- Enterprise-wide graphical control of Ansible estate



2 Red Hat Ansible Engine

- Enterprise-wide control – i.e., runs playbooks



3 Red Hat Ansible Endpoints

- Enterprise-wide automation; modules are executed here



IBM Power Systems in **Private Cloud**

PowerVC



PowerVC

Infrastructure-as-a-Service and Private Cloud Management for POWER

Cloud Orchestration Solutions

PowerVC API provides integration with Multi-Cloud management and Cloud-Native management solutions



openstack.

Cloud and Virtualization Management

- Build Power Systems private clouds
- Quickly capture and deploy VMs
- Virtual machine resiliency and more...



Enterprise Storage



IBM
EMC
Hitachi
Pure Storage



Enterprise Power



PowerVC: Easy Virtualization Management and App Deployment

	PowerVC Standard Edition	IBM Cloud PowerVC Manager
Deploy VMs in minutes	✓	✓
Full lifecycle management of VMs	✓	✓
Automated VM recovery	✓	✓
Single-click host evacuation	✓	✓
Automated cloud optimization	✓	✓
Multi-tenancy and resource isolation	✓	✓
Software-defined networking	✓	✓
OpenStack API enablement	✓	✓
Upward integration to multi-cloud managers	✓	✓
Self-service, single-click deployment		✓
Policies, metering and quota management		✓
Import/export VMs to/from clouds		✓



RED HAT[®]
OPENSIFT
Container Platform

Hybrid Cloud with
Red Hat OpenShift

Why Red Hat OpenShift is the right foundation for hybrid cloud

The #1 Container and Kubernetes platform



Dev



Ops

A consistent developer experience: Code, build, deploy

A consistent operational interface with automated operations

A cloud-agnostic application and data infrastructure platform

DevOps tooling compatible across clouds

A single, more secure Linux operating system in all clouds

IBM public cloud



AWS



Microsoft Azure



Google Cloud



Private



IBM Power Systems
IBM Z
IBM LinuxOne

End points



Red Hat OpenShift and Power Systems

OpenShift 4.x

[Try it now](#)

Containerize and manage existing Red Hat or open source applications via OpenShift catalog

Ideal for Red Hat stack clients and IBM Clients moving to modern, cloud-native IBM middleware

Now included with all IBM Cloud Paks

Runs on Power Enterprise & Scale-out Systems

Supports bare metal, PowerVM, RH KVM (dev only)

Order via IBM Product # 5639-OCP in eConfig

POWER Cloud Benefits

- Build, run open source cloud-native apps with full control of Kubernetes on Power Systems
- Unparalleled performance by surrounding AIX and IBM i apps with new cloud-native apps

The screenshot displays the OpenShift Container Platform dashboard. On the left, a navigation menu includes Overview, Applications, Builds, Resources, Storage, Monitoring, and Catalog. The main content area shows a search filter for '30 Items' and a list of application templates such as 'Apache HTTP Server', 'Django + PostgreSQL', and 'MongoDB'. On the right, a cluster architecture diagram is shown, featuring a 'MASTER' node with components like APAAUTHENTICATION, DATA STORE, SCHEDULER, and HEALTHSCALING. It also shows three 'NODE' instances, each with 'POD' icons, and a 'RED HAT ENTERPRISE LINUX' label. Additional components like 'PERSISTENT STORAGE' and 'REGISTRY' are visible. At the bottom, a red banner reads 'Open Hybrid Cloud Fabric / Kubernetes Platform Mgmt.' and a footer shows deployment options: PHYSICAL, VIRTUAL, PRIVATE, PUBLIC, and HYBRID.










Create your own OpenShift 4 cluster – <https://cloud.redhat.com/openshift/install>

Red Hat OpenShift Cluster Manager

Clusters > Create > OpenShift Container Platform

Install OpenShift Container Platform 4

Select an infrastructure provider

- 
Run on Amazon Web Services
- 
Run on Microsoft Azure
- 
Run on Google Cloud Platform
- 
Run on VMware vSphere
- 
Run on Red Hat OpenStack
- 
Run on Red Hat Virtualization
- 
Run on Bare Metal
- 
Run on IBM Z
- 
Run on Power

OpenShift 4
[Try it now with 60-day evaluation](#)

<https://cloud.redhat.com/openshift/install/aws>

Hybrid Cloud with **IBM Cloud Paks**

Cloud Paks – Enterprise-Ready Containerized Software

A faster, more secure way to move your core business applications to any cloud through enterprise-ready containerized software solutions

IBM Containerized Software

Packaged with Open Source components, pre-integrated with the common operational services, and secure by design

Container Platform and Operational Services

Logging, monitoring, security, identity access management



Complete yet simple

Application, data and AI services, fully modular and easy to consume

IBM and Red Hat certified

Full software stack support, and ongoing security, compliance and version compatibility







Run anywhere

On-premises, on private and public clouds and in pre-integrated systems



Cloud Paks are Pre-integrated for Cloud Use Cases

...and they run wherever OpenShift runs

<p>Cloud Pak for Applications</p> <p>Build, deploy, and run applications</p> <p>Available Now on 4.3</p> <p>IBM containerized software</p> <p>Container platform and operational services </p>	<p>Cloud Pak for Data</p> <p>Collect, organize, and analyze data</p> <p>Available Now on 4.3</p> <p>IBM containerized software</p> <p>Container platform and operational services </p>	<p>Cloud Pak for Integration</p> <p>Integrate applications, data, and APIs</p> <p>IBM containerized software</p> <p>Container platform and operational services </p>	<p>Cloud Pak for Automation</p> <p>Transform business processes, decisions, and content</p> <p>IBM containerized software</p> <p>Container platform and operational services </p>	<p>Available Now on 3.11</p> <p>Cloud Pak for Multicloud Management</p> <p>Multicloud visibility, governance, and automation</p> <p>IBM containerized software</p> <p>Container platform and operational services </p>	<p>Cloud Pak for Security</p> <p>Connect security data, tools and workflows</p> <p>IBM containerized software</p> <p>Container platform and operational services </p>
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IBM public cloud



AWS



Microsoft Azure



Google Cloud



Private



IBM Power Systems
IBM Z
IBM LinuxOne

End points



The Big Picture

HYBRID MULTICLOUD CONSOLE



Customer Value Statements

- 1. Increased IT admin productivity** via a single cloud dashboard that displays key metrics and provides integrated management and automation
- 2. Simplified app modernization** experience for **IT admins** and **developers** through an integrated VM and container experience
- 3. Simplified app and data movement** for **IT admins** across hybrid multicloud landscape

Applications

LOB, ISV and open source apps...

Summary Dashboard

Provider	Virtual machines	Infrastructure status	Total storage used	CPUs
amazon	344	336/344 powered on	35.73 TB	2338
vmware	140	122/140 powered on	401.76 TB	985
google	59	58/59 powered on	6.23 TB	59
azure	7	7/7 powered on	0 B	12
redhat	3	3/3 powered on	1.42 TB	12

Compute resources

Kubernetes clusters: 7 Virtual machine pools: 6

Cloud VMs - 223
Infrastructure VMs - 147
Kubernetes nodes - 22

Virtual Machines

Storage

Networks

Containers and Kube Clusters

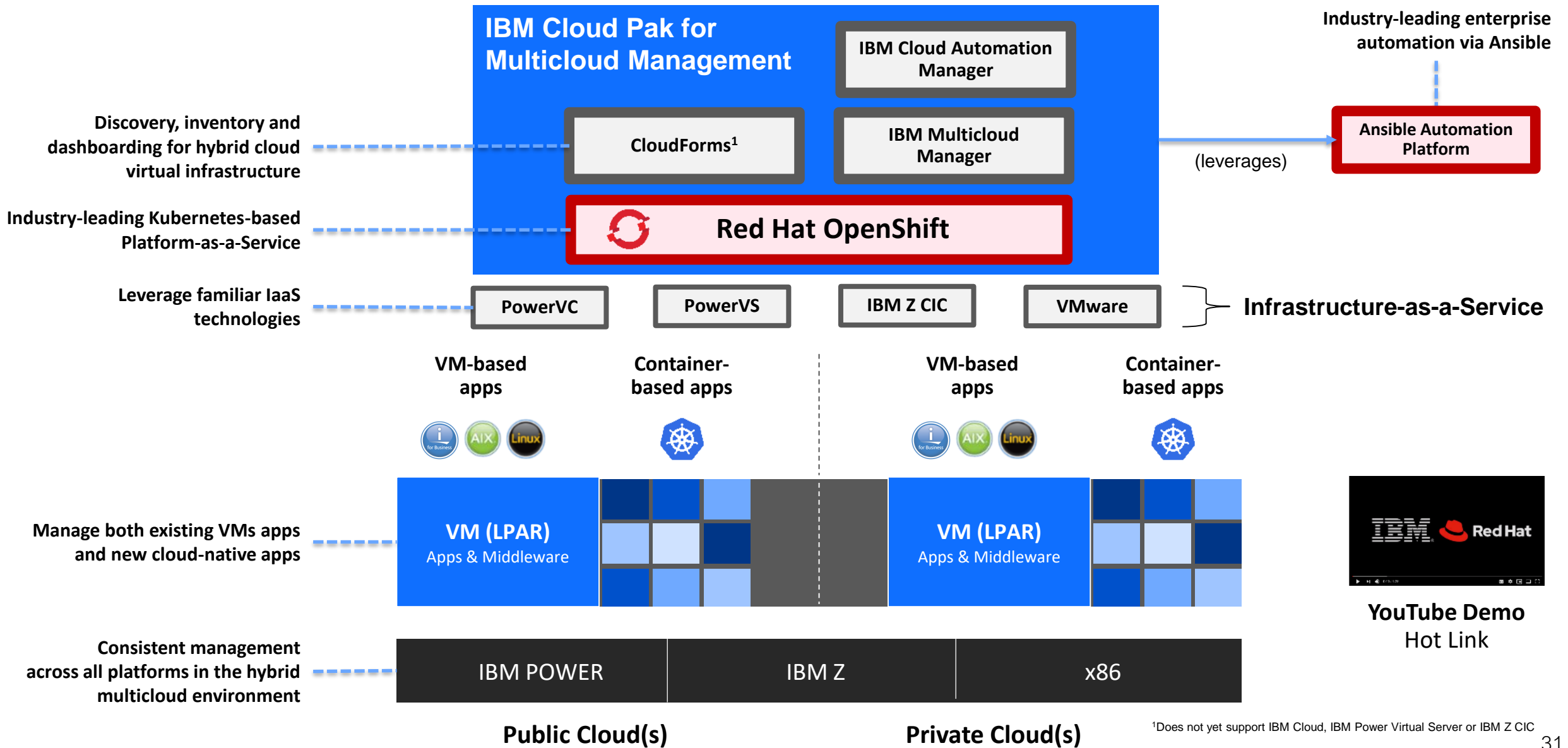
Automation

Private Cloud

Public Cloud

...and more

Hybrid Multicloud Management and Enterprise Automation



¹Does not yet support IBM Cloud, IBM Power Virtual Server or IBM Z CIC

Client Value and Use Cases

Running IBM Cloud Paks on AWS can cost up to ~7x more than private cloud on Power and up to 2.3x more for private cloud on x86 vs. Power

Here are the 3 reasons why

1) POWER9 is ~2x per core more performant than x86; hence x86 servers require ~2x more cores and licenses

2) AWS and Azure public cloud licensing of VPCs is by thread (vCPU) or ~1/2 an x86 core, requiring 2x more licenses



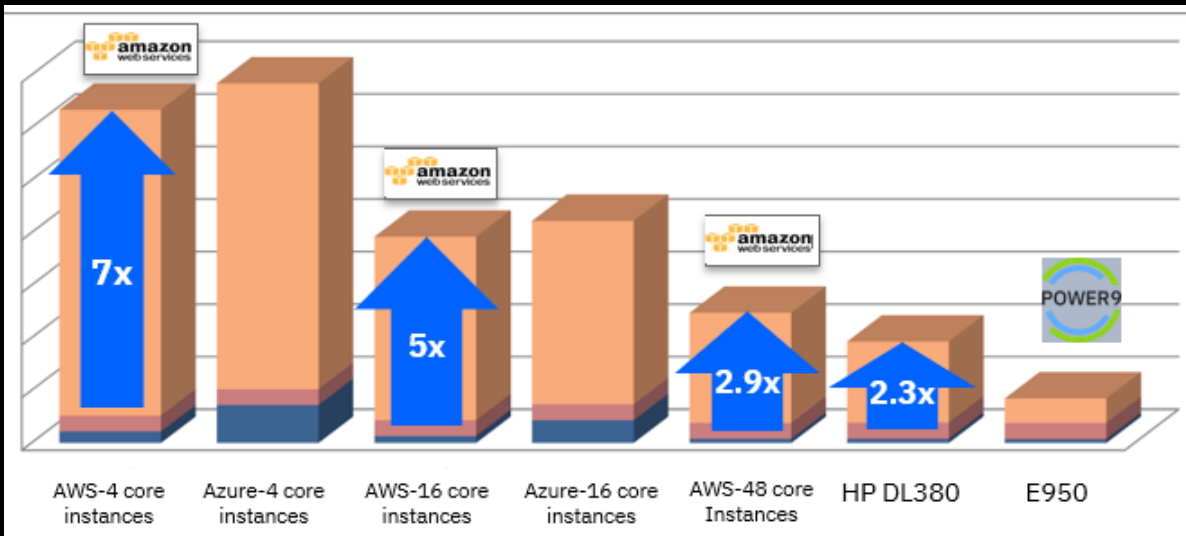
IBM Software > Passport Advantage > Licensing > IBM Eligible Public Cloud BYOSL policy >

IBM Eligible Public Cloud BYOSL policy

Under this policy, IBM authorizes you to deploy your eligible IBM software on an eligible public cloud Infrastructure as a Service (IaaS) provided by IBM or a third party subject to the

Virtual Processor Core (VPC) licensing is 1 VPC per 1 virtual CPU (vCPU) unless otherwise noted.

Cost of IBM Cloud Pak for Applications (BYOSL) Monthly Licenses over 3 years (list price)



3) Power Systems customers pack multiple apps on on-premises servers & need less software licenses. Cloud Providers cannot share capacity across VM instances and only achieve ~40% utilization vs. 60+% for Power, so ~1.5x more capacity required

$$\sim 2X \text{ cores} \times 2X \text{ VPC licenses} \times \sim 1.5X \text{ capacity} = 6X \text{ more}$$

6x or more
resources needed on public cloud vs. private cloud on Power

Use Cases: OpenShift and Cloud Paks on POWER

Existing IBM clients with IBM middleware on POWER

- **Modernizing** existing IBM software-based business critical apps on POWER
- **Modernizing** business critical apps & incorporating open source software and tools
- Standardizing on Red Hat for Linux, Cloud and DevOps
- Want the security of commercial software and POWER enterprise hardware

Organizations who are existing Red Hat clients

- May be existing AIX and IBM i client on POWER, but Red Hat running on x86
- Developing **cloud native** data-centric apps and infusing with AI and deep learning
- Want to exploit POWER AC922 and IC922 for AI, ML training and inferencing
- DIY developers using open source software via OpenShift container catalog
- Embracing Linux and open source for faster innovation, choice and economics



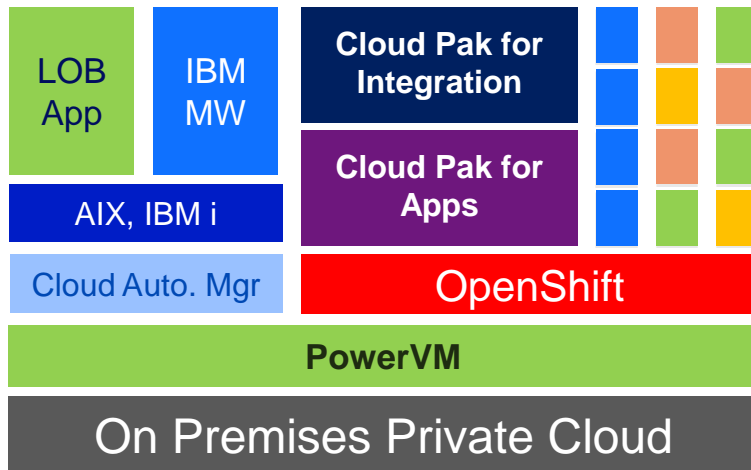
US State Agency **Modernizes** with IBM Hybrid Cloud on POWER

10 x POWER
S924s

Simplify Modernization and Promote Innovation

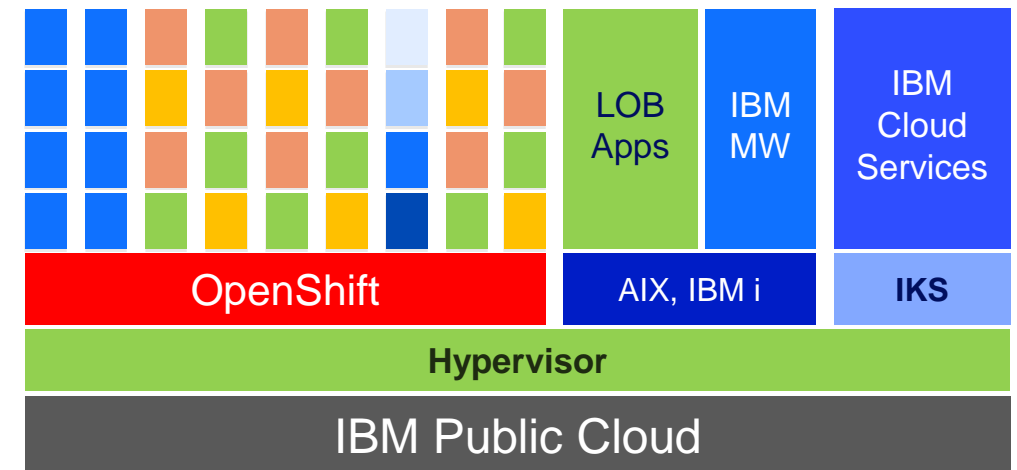
Modernize one function or microservice at a time

- Incremental modernization Investment
- Deploy quickly with quality
- Deliver value as you go
- Develop once – deploy anywhere



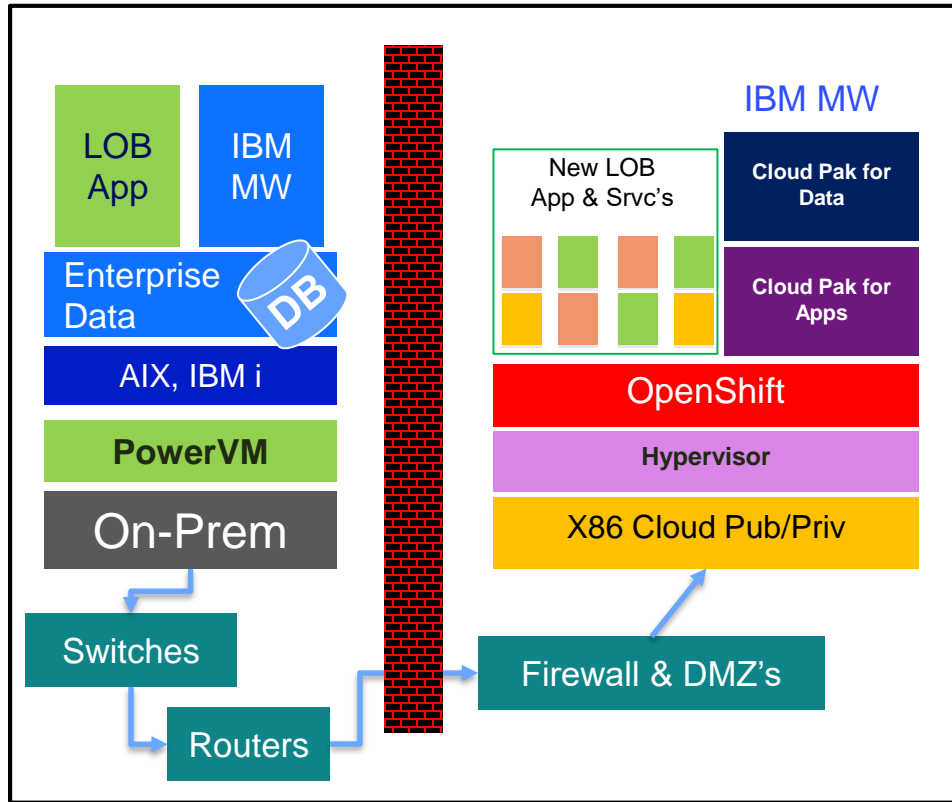
IBM Multicloud Management

Single dashboard to manage your public and private clusters

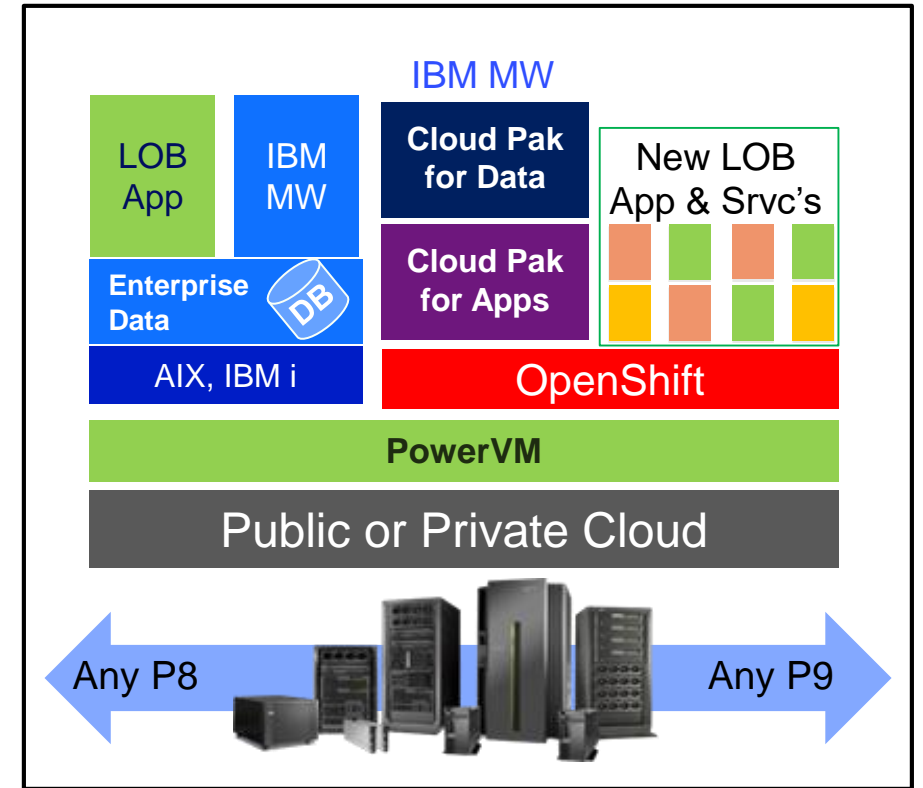


Data Gravity Makes Power the Best Place to **Modernize** with OpenShift

*x86 as Modernization Platform
Power as Enterprise Data Platform*



*Power as Modernization Platform
AND Enterprise Data Platform*



- | | |
|---|---|
| <ul style="list-style-type: none"> • More Latency for Data Access • More & Slower data movement • Buy new hardware | <ul style="list-style-type: none"> • Less Secure, more attack surface • Less Flexible & More Failures with more gear to break |
|---|---|

- | | |
|---|--|
| <ul style="list-style-type: none"> • Run on Existing Equipment, Utilize dark capacity where it exists • Fast Memory based Data Access between OpenShift & AIX/IBMi • Zero PowerVM Security exposures | <ul style="list-style-type: none"> • 99.999% reliable HW design • Less servers required • Flexible Utilization with Dynamic Capacity and SLA Guarantees |
|---|--|

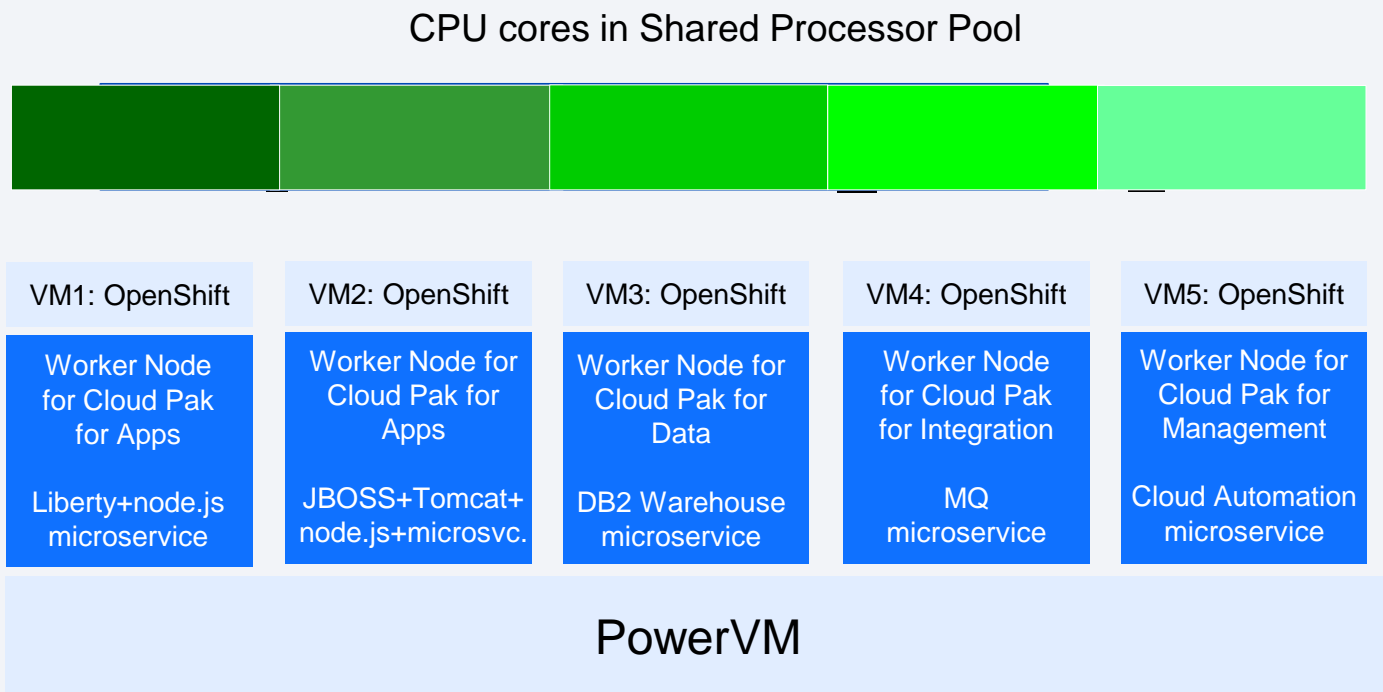
Why Power for OpenShift and Cloud Paks – Flexible, Efficient Utilization

Introducing: Shared Processor Pools

Autonomously share
CPU cores across VMs

Simplified deployment

Improved TCO for
hardware and software

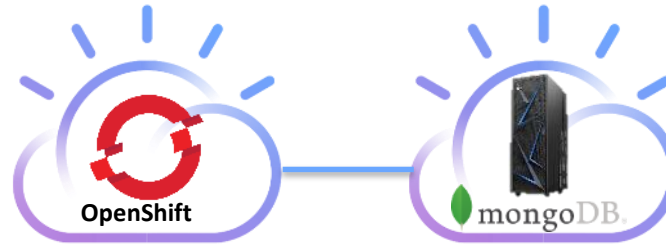


Hybrid Cloud: MongoDB on POWER and New Digital Payment Cloud Native App on OpenShift

POWER E980s
with Capacity
on Demand

Australian bank needs to transform its core Payment Processing application to meet new open banking regulations

Simplified transfer of funds across financial institutions



Public Cloud

- Node.js, etc
- OpenShift front end app

Private Cloud

- MongoDB
- APIs to OpenShift app

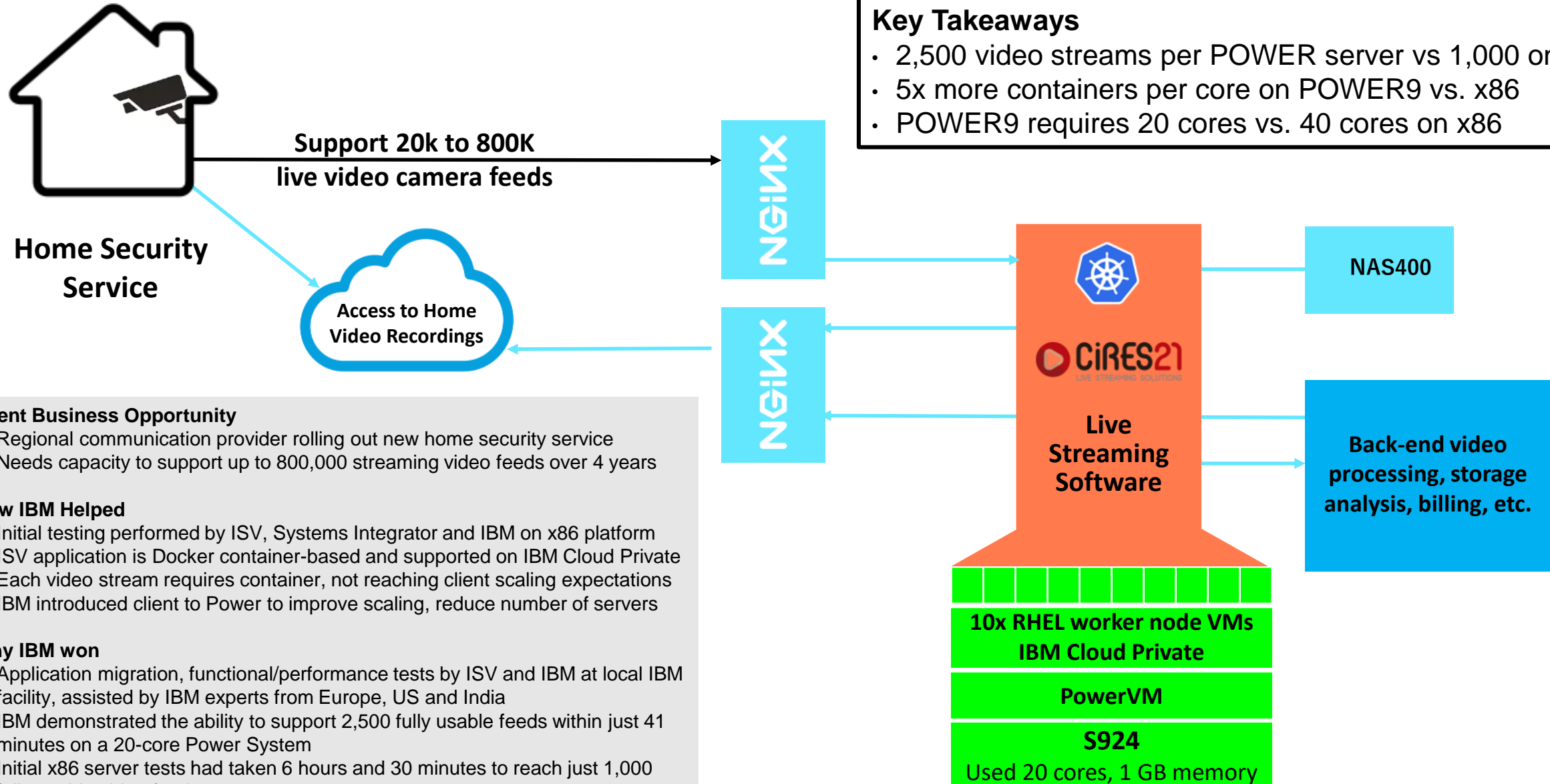


Regional
Bank

Why Red Hat on Power Systems

- Flexible on-premises server consumption and OPEX / cloud-like pricing
- Securely connect to NoSQL cloud databases
- Rapidly develop new cloud native apps
- Platform architected for data centric applications

Cloud-native: Regional Telco supports 5x more containers per core



Key Takeaways

- 2,500 video streams per POWER server vs 1,000 on x86
- 5x more containers per core on POWER9 vs. x86
- POWER9 requires 20 cores vs. 40 cores on x86

Client Business Opportunity

- Regional communication provider rolling out new home security service
- Needs capacity to support up to 800,000 streaming video feeds over 4 years

How IBM Helped

- Initial testing performed by ISV, Systems Integrator and IBM on x86 platform
- ISV application is Docker container-based and supported on IBM Cloud Private
- Each video stream requires container, not reaching client scaling expectations
- IBM introduced client to Power to improve scaling, reduce number of servers



Why IBM won

- Application migration, functional/performance tests by ISV and IBM at local IBM facility, assisted by IBM experts from Europe, US and India
- IBM demonstrated the ability to support 2,500 fully usable feeds within just 41 minutes on a 20-core Power System
- Initial x86 server tests had taken 6 hours and 30 minutes to reach just 1,000 fully usable video feeds on a 40-core x86 server

Why Power for **Cloud-Native** – More from software with less servers

Cloud native business locator application runs more efficiently on OCP on Power

3.2X greater containers per core on tested Intel Xeon® SP Gold 6150 servers & OpenShift Container Platform

 	IBM Power L922 (20-core, 256GB, 2 LPARs) 174 containers	Intel Xeon® SP based 2-socket server (36-core, 256GB, 2 VMs) 98 containers
Server price ^{4,5,6} -3-year warranty	\$28,821	\$28,805
Solution Cost ⁷ -Server + RHEL OS / Virtualization + OCP 3 yr subscription @ \$7,695 per 2 cores	\$ 115,888 (\$28,821 + \$10,117 + \$76,950)	\$ 171,234 (\$28,805 + \$3,919 + \$138,510)
Geospatial workload ¹ Total Transactions per Second - With 2 VM's	2,542 tps	2,290 tps
\$/container	\$ 666	\$1,747
Containers/core	8.7	2.7

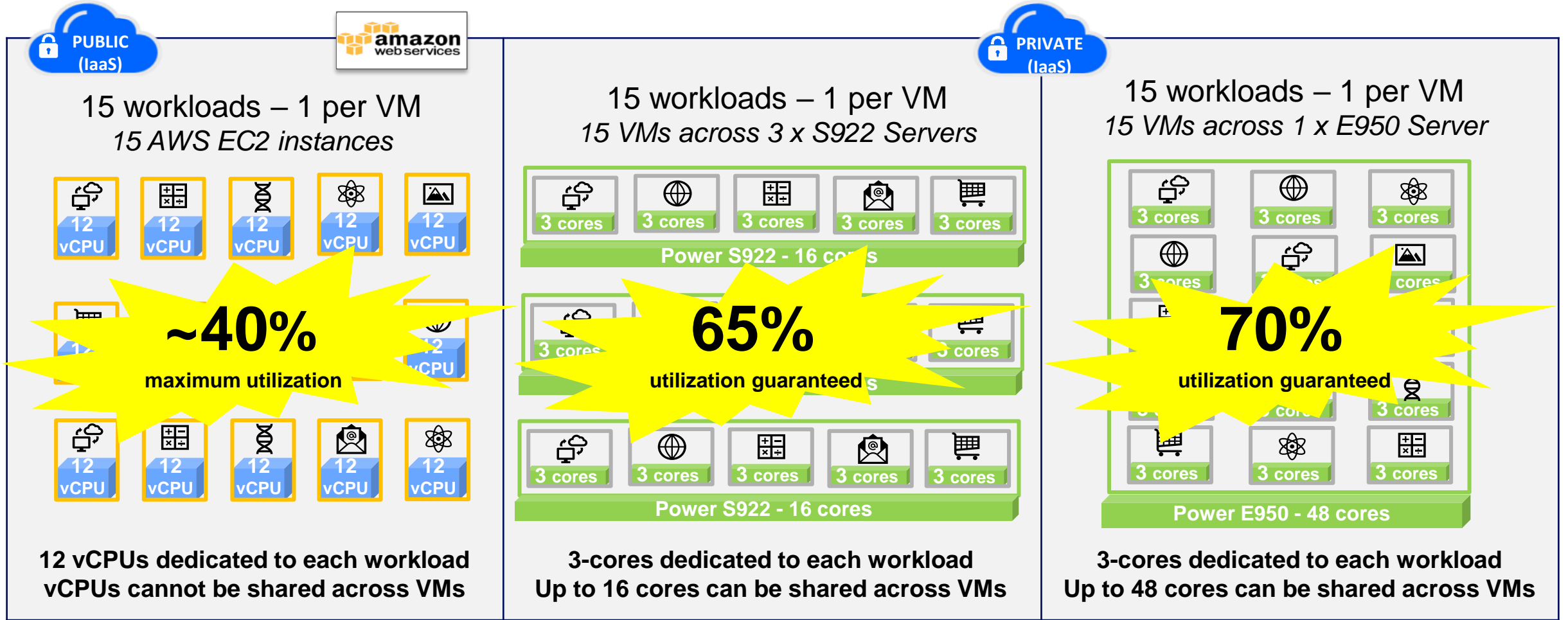
3.2X
Greater containers/core²



2.6X
Better price-performance³
(based on number of containers)

1. Based on IBM internal testing running MongoDB's Geospatial queries at 700 users, each running 1000 transactions using jmeter v4. Each container uses MongoDB 4.0.2 & Node.js v8.14.1 (REST APIs) with socket bound containers. Testing added containers to each server until servers reached response time limit of 99% of transactions completing in under 1 second. Results valid as of 7/16/19. Conducted under laboratory condition with speculative execution controls to mitigate user-to-kernel and user-to-user side-channel attacks on both systems, Individual result can vary based on workload size, use of storage subsystems & other conditions. Details about MongoDB workload: <https://docs.mongodb.com/manual/tutorial/geospatialtutorial/>
2. 3.2X greater containers/core is based on 174 containers/20 cores for Power L922 and 98 containers/36 cores for Intel Xeon. – (2,531/20)/(2,290/36) = 3.2
3. 2.6X Better price performance is based on \$666/container for Power L922 and \$1,762 for Intel Xeon - 1747/666 = 2.6.
4. IBM Power L922 (2x10-core/typical 2.9 GHz/256 GB memory) 2x 388 GB SSD, 2x 10 Gb two-port network, RHEL 7.6 with PowerVM (2 partitions@10-cores each),
5. Competitive stack: 2-socket Intel Xeon Skylake Gold 6150 (2x18-core/ 2.7 GHz/256 GB memory), 2 x 480 GB SSD, 3 x 10 Gb two-port network, RHEL 7.6, KVM (2 VMs@18-cores each)
6. Pricing is based on Power L922 <https://www.ibm.com/it-infrastructure/power/scale-out>, and publically available x86 pricing <https://ark.intel.com/content/www/us/en/ark/products/120490/intel-xeon-gold-6150-processor-24-75m-cache-2-70-ghz.html>
7. Software pricing for OCP Subscription is standard version 3 year .

Why Power for **Cloud Native** – More from software with less servers



15 VMs - 180 x86 vCPUs

15 VMs - 3 x 16-core Power S922s

15 VMs - 1 x 48-core Power E950

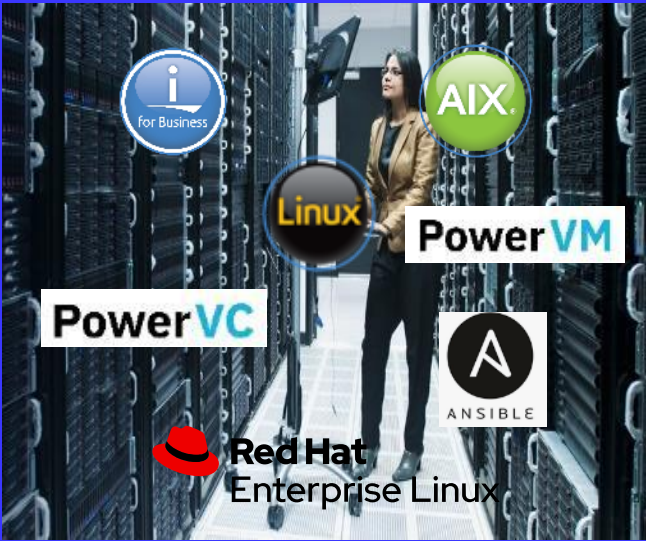


Lower TCO

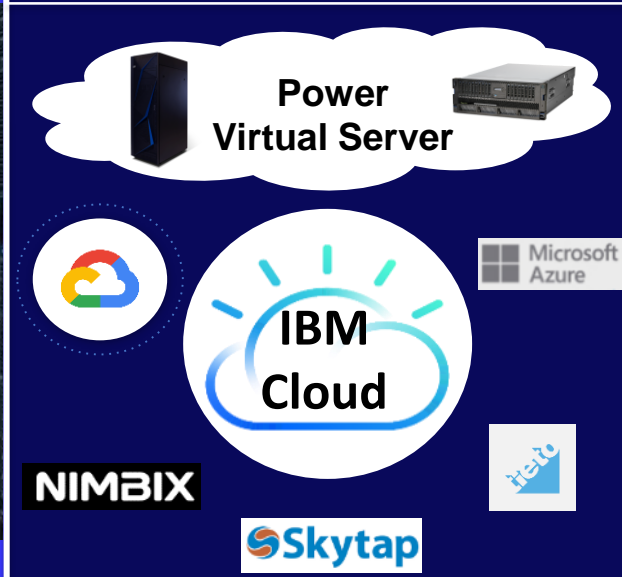


Hybrid Multicloud with Power Systems Roadmap

Transform existing IT for Cloud capabilities



Leverage Public Cloud flexibility



Marry cloud micro-services & agility to AIX, IBM i apps

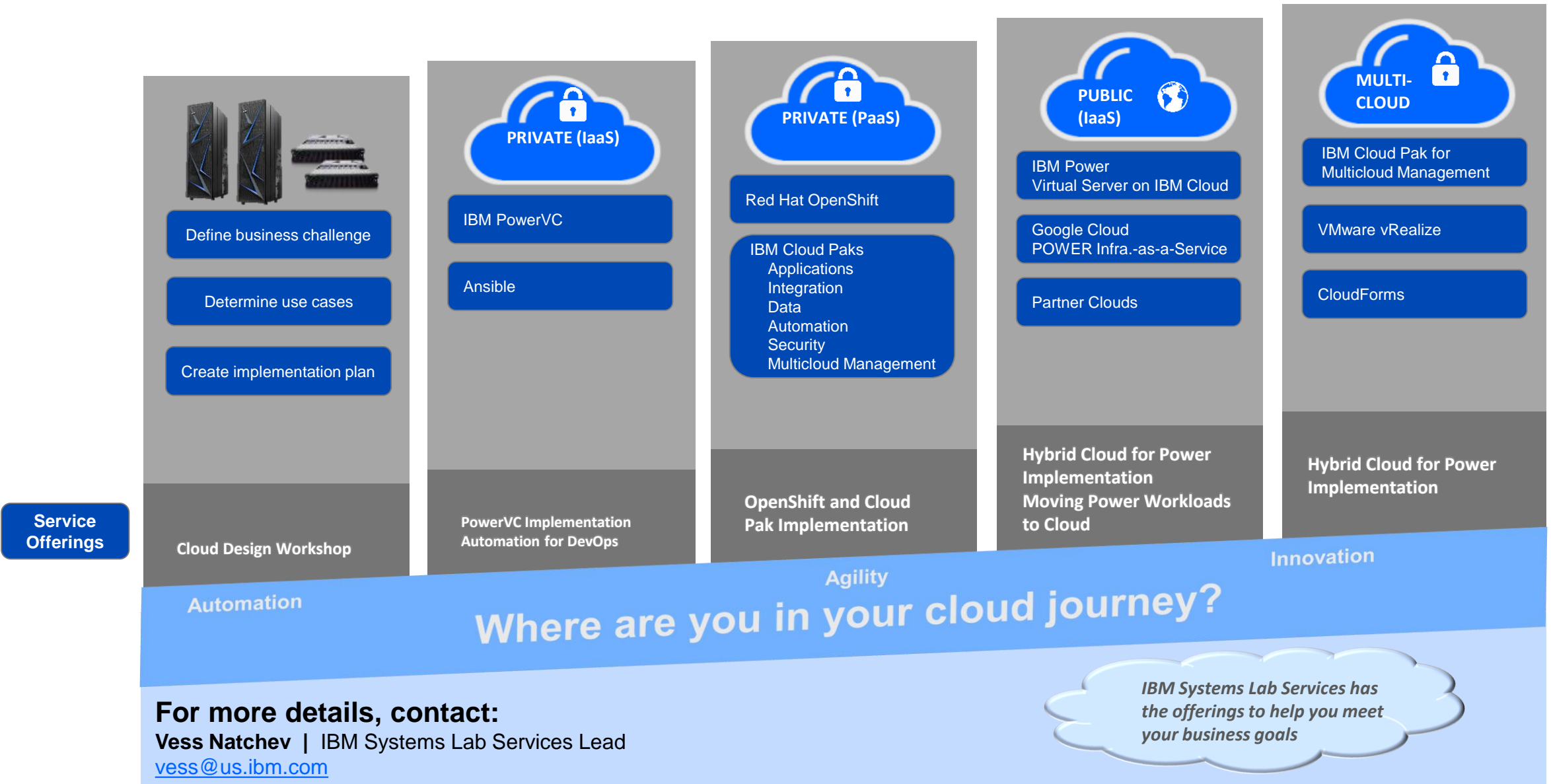


Hybrid cloud enables microservices, VM apps to run anywhere



Getting Started

IBM Services Journey to Hybrid Multicloud on Power Systems



Get Started with Power Systems Hybrid Multicloud Today!

- ✓ Fully enabled for the public, private and hybrid multicloud era
- ✓ Easily blend existing VM technologies with new cloud-native container technology
- ✓ DevOps and automation technologies are fully available
- ✓ A wealth of professional services are available to help you on this journey

Examples of valuable MVPs...

1. Create an automated private cloud experience with PowerVC and Ansible using POWER's flexible compute capacity
2. Modernize an existing enterprise app with OpenShift and containers – all on POWER – in the IBM Cloud or on-prem
3. Leverage IBM Cloud & Automation (e.g., Ansible and/or IBM Cloud Pak for Multicloud Management) to deploy AIX, IBM i and Linux

Resources:

Visit: IBM Power Systems [Hybrid Multicloud Solutions Webpage](#) (Customers)

Visit: IBM Power Systems [Hybrid Multicloud Solutions in Seismic](#) (Business Partners)

Read: [Cloud on Power White Paper](#)

Watch: [Hybrid Multicloud Videos](#) for IBM Power Systems

Thank you !

Cloud Solutions for Power Systems

**Red Hat OpenShift
+ Private Cloud**

Solutions for Power

**Power Virtual
Server: IBM Cloud**

Powered by E8/980s, S922s

**Hybrid
Multicloud**

Integration across
Public & Private Cloud

IBM Cloud Paks

for Data, Management,
Applications, Integration,
and Automation

Red Hat Ansible

Enterprise Automation for
Power Systems

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