



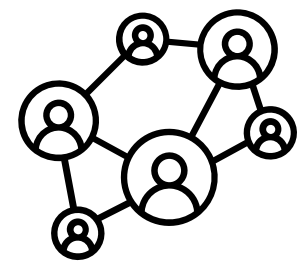
# Introducing IBM Power11

[info@hnit.ca](mailto:info@hnit.ca) or visit [www.hnit.ca](http://www.hnit.ca) for more details.

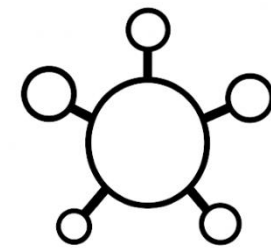


# 1B

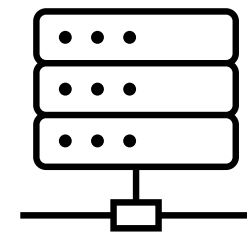
*new applications are expected by 2028<sup>1</sup>  
...and enterprises are drowning in complexity*



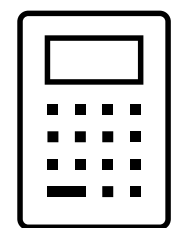
*Silos*



*Data*



*Outages*



*Cost  
Optimizations*



*Skills  
Shortages*

*...which makes keeping critical systems continually running a near impossible task...*

*...and these challenges will only intensify as enterprises strive to remain competitive in the AI era*

# *Highly resilient organizations will achieve business success in the AI era*

yet

70%

of business leaders say their tech architecture creates confusion, conflict and disagreement

and

65%

of business leaders say their tech architecture is critical to how they use IT to improve business performance

92%

of executives agree that their organization's workflows will be digitized and will leverage AI-enabled automation by 2025

# Announcing IBM Power11

Autonomous IT built  
for the AI era



# IBM Power11

Engineered to accelerate enterprises into the AI era



0

planned downtime with end-to-end automation<sup>1</sup>

<1min

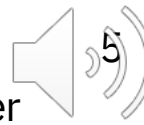
guaranteed ransomware detection with automated response and recovery within minutes<sup>2</sup>

5X

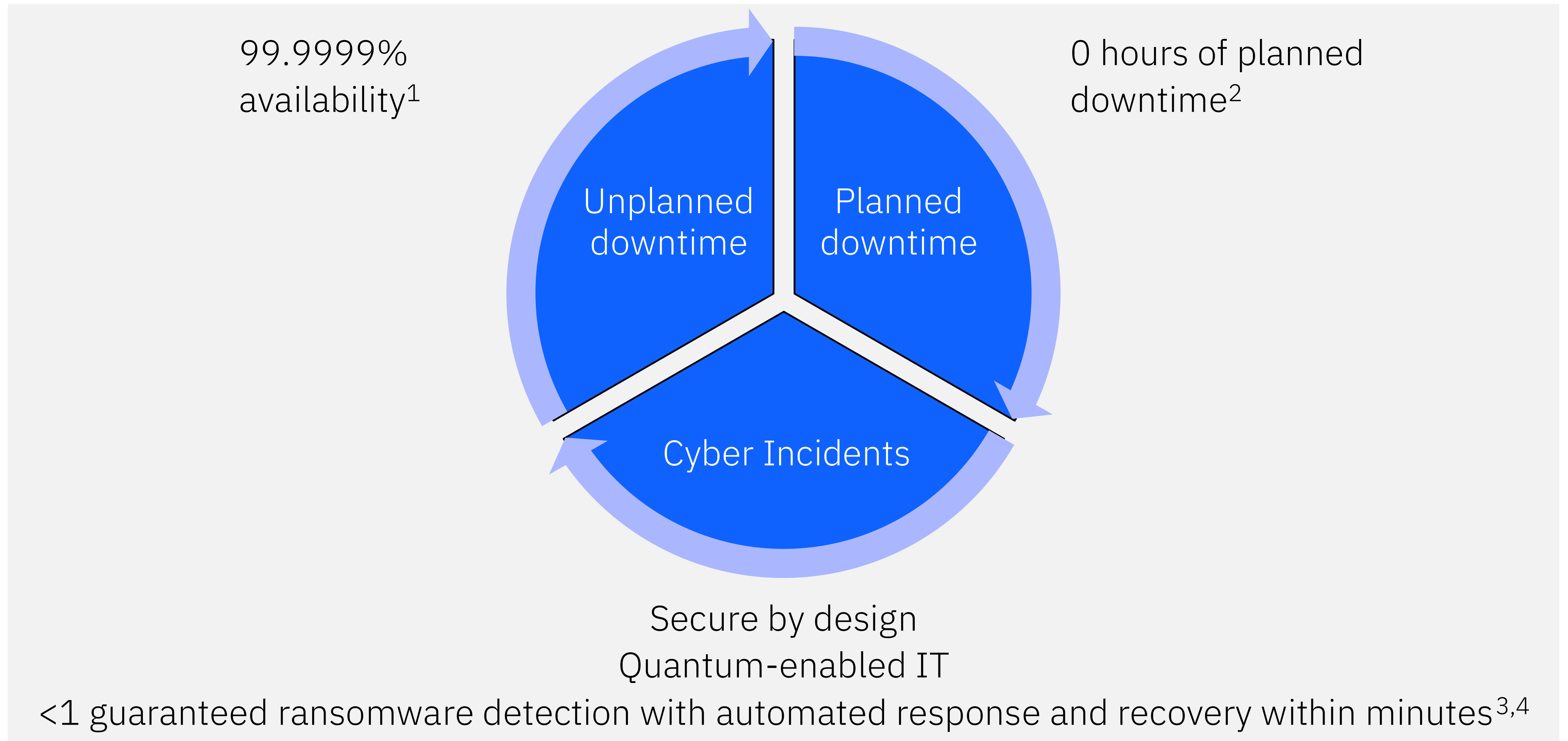
increase in business process rate with AI integration into existing enterprise workflows<sup>3</sup>

... Built on a foundation of performance, availability, and security

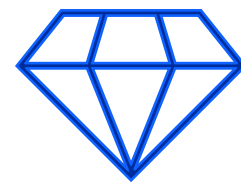
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2. This guarantee covers only the displaying of an alert in less than one minute. Remediation is in the form of drive replacement up to the cost of the Covered Product. Terms and conditions apply; full details can be found here. (Coming to IBMi in 4Q 2025, Roadmap for PowerVS)  
3. Geis-group.eu, Uwe Rempel, head of ZSI department, Geis Group \*. Measured in staging system.



# Total coverage for unprecedented business continuity



## Average annual cost of planned downtime



**\$5.6M** \*

- Typical maintenance window is several hours.
- Multiple maintenance windows each year

## Average amount of time spent by IT team managing maintenance



**25-40%** \*\*

- Understanding & testing required maintenance levels
- Planning for maintenance windows, including navigating business priorities.
- Executing upgrades, often during nights & weekends





# Be a leader in core banking uptime with Zero Planned Downtime

## Ensure banking services are always available

Increase customer satisfaction and trust with no planned service disruptions

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## Enhance compliance and regulatory posture

Install critical security fixes quickly and seamlessly with agile platform updates

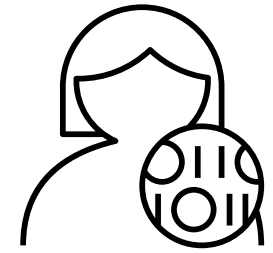


*“We’re thrilled about the transformative value that IBM Power11 with Zero Planned Downtime delivers to our Finacle Core Banking customers. Harnessing Power11’s extreme automation, customers can perform platform maintenance without disrupting their core banking applications, ensuring near continuous application availability. This innovation enables our customers to match consumer demands for modern AI-first experiences while redefining the standard for system uptime.”*

Girish G Kamath  
AVP, Senior Product Line Manager, Infosys Finacle



# Close the operational efficiency gap

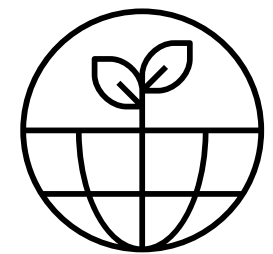


## Extreme Automation

Minimize application downtime

- 0 planned downtime with end-to-end maintenance<sup>1</sup>

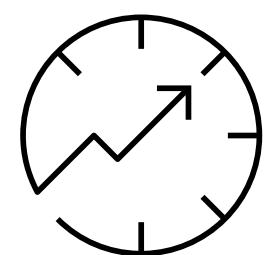
Automate data collection for faster error resolution



## Reduced Costs

Enhance energy efficiency

- 2x better performance per watt vs x86<sup>2</sup>
- 28% better server efficiency with Energy-Efficient mode<sup>3</sup>



## Optimized Workloads

Improve performance and TCO

- 51% lower 3-year solution cost for payment apps vs. x86<sup>4</sup>
- 4X performance per core for core banking with OpenShift<sup>5</sup>
- Up to 15% improved out-of-box performance for commercial ERP workloads<sup>6</sup>



1. Based upon IBM internal testing of system upgrade scenarios; many (i.e. VIOS, hot plug adapters, I/O adapter FW, and concurrent system firmware updates) can be done in-place while some (i.e. non-concurrent system FW and HW maintenance) may require Live Partition Mobility (LPM) support.  
2. Based upon Quantitative Performance Index (QPI) data as of May 15, 2025, from IDC available at <https://www.idc.com/about/qpi> and utilization. IBM Power E1150 (4x30c Power11 at 3.0-4.1GHz) QPI of 241,000E versus HPE Compute Scale-up Server 3200 (4x60-core Intel cores at 1.9GHz) QPI of 208,898 and utilization of 75% for E1150 based on IBM Power Performance Utilization Guarantee and 40% for x86. Energy consumption is based on maximum input power: IBM Power E1150 with maximum power of 5,200 W, HPE Compute Scale-up Server 3200 with maximum power of 4,740 W.  
3. Based upon IBM measurements of performance per watt on servers comparing Maximum Performance Mode to Energy-Efficient Mode while running compute-, disk-, and memory-based workloads on Power11 systems with fully configured sockets and memory as follows: E1180 with 4x10c / 64x64GB DDIMM, E1150 with 4x16c / 64x32GB DDIMM, S1124 with 2x16c / 32x32GB DDIMM, S1122 with 2x16c / 32x32GB DDIMM.  
4. Based on IBM internal testing for FTM v4.0.6 Check data ingest. Transactions per second were measured for Red Hat OpenShift Container Platform 4.16 worker nodes running FTM v4.0.6 High Value Payments. Results valid as of May 29, 2025, and conducted under laboratory conditions, individual results can vary based on workload size, use of storage subsystems and other conditions. Comparison is based on an IBM Power S1122 (2x30-core/1TB) with 45 worker cores and 10 Db2 cores versus Intel Xeon x86 (2x72-core/1TB) with 108 worker cores and 22 Db2 cores. Tests were run with FTM High Value Payments accessing Db2 databases on AIX on a Power S1122 system and on RHEL on Intel Xeon server. Total cost of ownership (TCO)/solution cost is defined as hardware, software, and maintenance costs over a period of three years and price-performance is performance/3-yr TCO where hardware list pricing is based on IBM Power S1122 <https://www.ibm.com/products> and extrapolated industry standard x86 list pricing based on IBM internal industry knowledge and software list pricing available at <https://www.ibm.com/products>.  
5. Based on IBM internal testing for Temenos Transact core banking workload (transactions per second) accessing Linux EDB databases each running 2,560,256 transactions using JMeter V5.6.3, the error ratio was kept under 1%. Results valid as of June 25, 2025, and conducted under laboratory conditions, individual results can vary based on workload size, use of storage subsystems and other conditions. Comparison is based on an IBM Power E1180 (16x16 core) with 32 worker cores versus Intel Xeon x86 (4x60 core) with 128 worker cores. Tests were run with Red Hat Enterprise Linux 9.6 on the OpenShift Container Platform Helper, Red Hat OpenShift 4.18.13 and EDB 17.5.0 on both servers.  
6. Based on IBM internal testing of multi-instance SAP NetWeaver running on an E1080 (8x12 core) compared to E1180 (8x12 core) at various utilization levels. Both systems utilized AIX and SAP best practices and no additional performance tuning.

# Deploy enterprise AI across critical processes

## Scale AI across the enterprise

- Transform enterprise processes with simplified AI integration
- Boost productivity with assistants and agents
- Unlock enterprise data with data fabric and platforms

5x

Increase in business process rate with AI integration into existing enterprise workflows<sup>a</sup>  
*Uwe Rempel, head of ZSI department, Geis Group*

18x

Increase in developer productivity with AI-powered code assistant<sup>b</sup>  
*Jasmine Kaczmarek, VP Technology, MR Williams*

23%

lower TCO while meeting GenAI performance requirement vs competition<sup>c</sup>  
*Martin Rydén, Head of Architecture & Projects, Shibuya*

## Ecosystem

Equitus.ai | Rocketgraph | Finacle | Wallaroo.AI

## Assistants and Agents

watsonx Code Assistant for i<sup>1</sup>

## Data Fabric

watsonx.data<sup>2</sup> | IBM DataStage | IBM Knowledge Catalog

## AI Foundation

Red Hat OpenShift AI<sup>3</sup> | Python Ecosystem for IBM Power

## Infrastructure

IBM Spyre Accelerator<sup>4</sup> | IBM PowerVS Toolkits

a. [Geis-group.eu](https://www.geis-group.eu), "We achieve a 5x faster business process throughput by integrating AI into our existing processes on IBM Power leveraging on-chip accelerator (MMA and SIMD) technology."\* - Uwe Rempel, head of ZSI department, Geis Group \*: Measured in staging system.  
b. [MR Williams](#), "I only had 20 minutes to spare, and with the code assistant, I was able to investigate a report, trace how the field was populated, understand the calculation, and fix the issue. A senior developer had spent six hours on it the day before without finding a solution. It was super easy." Jasmine Kaczmarek, VP Technology, MR Williams  
c. [Shibuya](#), "We've offered a Gen AI translation service responding in less than 6 seconds for prompts with up to 1,000 input tokens to our customers. On IBM Power10, we can offer this service at 23% lower TCO compared to a GPU-accelerated x86 environment. With IBM Power11, we will become even more competitive." - Martin Rydén, Head of Architecture & Projects, Shibuya

1. Public Preview  
2. GA 4Q '25  
3. Tech Preview, SoD GA (MMA) 4Q '25, GA (Spyre) 1Q'26  
4. Tech Preview

## Automatically extracting order details for faster order processing

Hans Geis, a logistics provider running their core ERP system on IBM i, integrates AI to:

- improve the customer acquisition process by speeding-up order processing by **5x<sup>1</sup>**
- enhance employee productivity by lowering processing time **80%<sup>1</sup>**



**Global Logistics**

- 190 branches
- 13 countries
- 8k+ employees

<sup>1</sup> [Geis-group.eu](https://www.geis-group.eu). "We achieve a 5x faster business process throughput by integrating AI into our existing processes on IBM Power leveraging on-chip accelerator (MMA and SIMD) technology."\* - Uwe Rempel, head of ZSI department, Geis Group \*: Measured in staging system.



# GUIDEWELL

*“We’re constantly striving to help the people of Florida get quality health care they can afford. With the new IBM Power11 automation capabilities, we are very interested in faster and more frequent maintenance updates with no planned downtime to keep the servers secure, stable, and current, so our team can focus on delivering benefits and services for better health. In addition, the native AI capabilities and significant system performance gains of the Power S1122 will allow our company to leverage AI for clearer and faster claims experience.”*

*William Allarey, Sr. IT Manager at GuideWell*



# Unlock business-driven workload placement

*Accelerate impact with consistency, not complexity*

15x

Faster testing and release cycles delivering higher quality<sup>1</sup>

50%

Faster recovery with 80% less cost by adding IBM PowerVS as a Disaster Recovery site<sup>2</sup>

5

Day Onboarding Guarantee<sup>3</sup>

25%

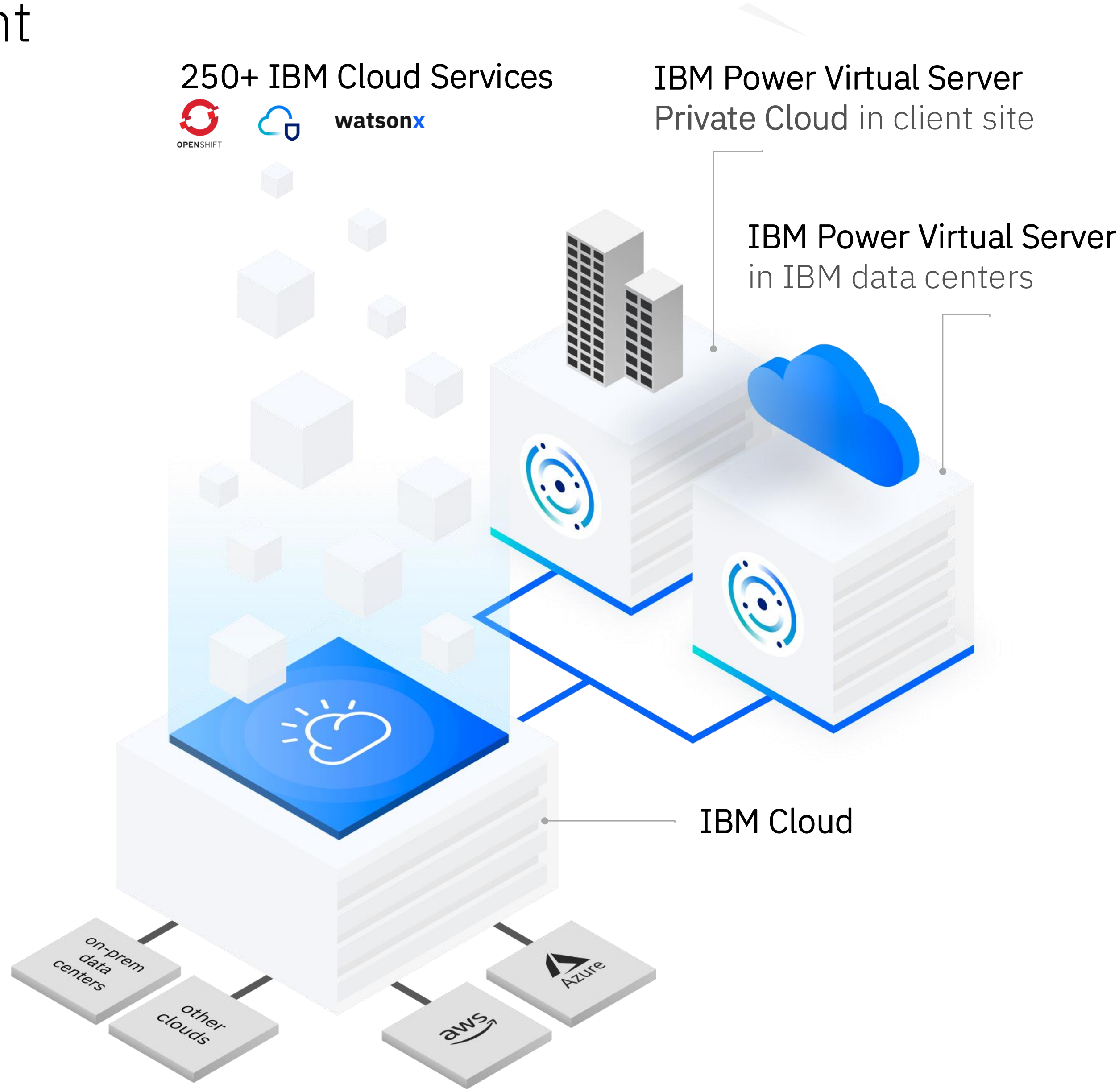
Faster migration to SAP RISE on IBM PowerVS vs other clouds<sup>4</sup>

14x

Less hypervisor CVEs than other IaaS clouds<sup>5</sup>

>25%

Lower TCO compared to other IaaS clouds<sup>6</sup>



<sup>1</sup>FNZ case study: <https://www.ibm.com/case-studies/fnz-uk>  
<sup>2</sup>Proximity case study: <https://www.ibm.com/case-studies/proximity-covenco>  
<sup>3</sup>TEL Services: 5 days or less is guaranteed when leveraging IBM Technology Expert Labs (TEL) Build services  
<sup>4</sup>Up to 15-25% in Power8 or newer generation systems based on IBM's blinded anecdotal feedback from actual customer migrations  
<sup>5</sup>14x less (or better) hypervisor CVEs in PowerVM compared to hypervisors in other SAP-certified clouds based on NIST vulnerability database records for [PowerVM](#), [Hyper-V](#), [Xen](#), [KVM](#). Data as of 6th May 2025  
<sup>6</sup>Savings advantage published by Precision IT

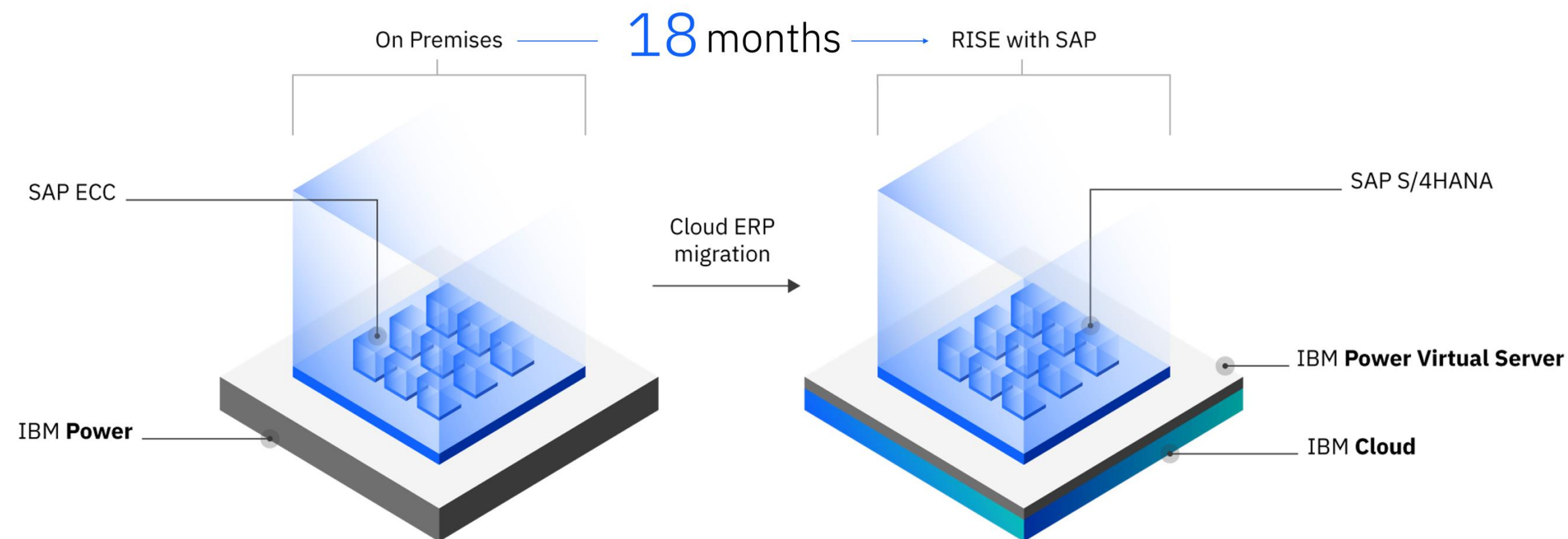
# IBM's adoption of RISE with SAP to modernize its operations

One of industry's largest RISE-enabled cloud modernization of quote-to-cash and record-to-report operations is running on IBM Power Virtual Server on IBM Cloud

**150K** Users

**175+** Countries

**30%** Reduced infra ops costs



- Accelerated RISE move, with “Like for Like” migration across Power and Intel x86
- More automation, standardized processes
- Persistent business process innovation with cleaner ERP core



# Power11 Portfolio and Innovation

## An Edge to Cloud platform with core innovation by design

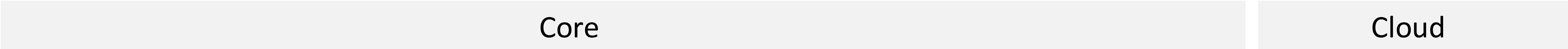
New Energy Efficient operating mode that optimizes power consumption without compromising SLAs

New 2.5D Integrated Stacked Capacitor and innovative thermal technologies to optimize power consumption

Improved performance through workload isolation with Resource Groups

Next-generation memory with 3X DDR bandwidth delivers performance to larger, memory-intensive applications

New off-chip AI acceleration based on IBM Spyre planned for 4Q25



S1122 & L1122



S1124 & L1124



E1150



E1180



PowerVS

Power11 availability on Day-1<sup>1</sup>

<sup>1</sup> Day 1 availability is planned for the United States and Spain only.



**IBM**



# Thank you

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The client is responsible for ensuring compliance with all applicable laws and regulations. IBM does not provide legal advice nor represent or warrant that its services or products will ensure that the client

# Disclaimers

Page 5 (“Power11”)

- 1. Zero planned downtime for system maintenance - Disclaimer:** Based upon IBM internal testing of system upgrade scenarios; many (i.e. VIOS, hot plug adapters, I/O adapter FW, and concurrent system firmware updates) can be done in-place while some (i.e. non-concurrent system FW and HW maintenance) may require Live Partition Mobility (LPM) support.
- 2. Less than 1-minute guaranteed ransomware threat detection with IBM Power Cyber Vault - Disclaimer:** This guarantee covers only the displaying of an alert in less than one minute. Remediation is in the form of drive replacement up to the cost of the Covered Product. Terms and conditions apply, full details can be found [here](#).
- 3. Geis-group.eu**, “We achieve a 5x faster business process throughput by integrating AI into our existing processes on IBM Power leveraging on-chip accelerator (MMA and SIMD) technology.”\* - Uwe Remppel, head of ZSI department, Geis Group \*: Measured in staging system.

Page 6 (“Business Continuity”)

- 1. Power11 is designed to be the most resilient server in the history of the IBM Power platform with 99.9999% of uptime - Disclaimer:** Based upon estimated average entire-system unplanned downtime for Power E1180 systems as calculated in the Power11 Processor-Based Systems RAS (see section: Enterprise Single Server Availability Standard) <https://www.ibm.com/downloads/documents/us-en/10a99803d9afd776>
- 2. Zero planned downtime for system maintenance - Disclaimer:** Based upon IBM internal testing of system upgrade scenarios; many (i.e. VIOS, hot plug adapters, I/O adapter FW, and concurrent system firmware updates) can be done in-place while some (i.e. non-concurrent system FW and HW maintenance) may require Live Partition Mobility (LPM) support.
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- 4. Data recovery from ransomware attacks in minutes with IBM Power Cyber Vault - Disclaimer:** Recovery is defined as the time it takes to for a Safeguarded Copy to be available in the same Flash System or moved to another defined host server attached to that Flash System. Does not include host server recovery actions that are application dependent. Terms and conditions apply, full details can be found [here](#).

# Disclaimers

Page 10 (“Efficiency gap”)

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- 2. Power11 offers twice the performance per watt versus compared x86 servers – Disclaimer:** Based upon Quantitative Performance Index (QPI) data as of May 15, 2025 from IDC available at <https://www.idc.com/about/qpi> and utilization. IBM Power E1150 (4x30c Power11 at 3.0-4.1GHz) QPI of 241,000E versus HPE Compute Scale-up Server 3200 (4x60-core Intel cores at 1.9GHz) QPI of 208,898 and utilizations of 75% for E1150 based on IBM Power Performance Utilization Guarantee and 40% for x86. Energy consumption is based on maximum input power: IBM Power E1050 with maximum power of 5,200 W  
<https://www.redbooks.ibm.com/redpapers/pdfs/redp5684.pdf> HPE Compute Scale Up Server 3200 with maximum power of 4,740 W  
[https://www.hpe.com/psnow/doc/a50004268enw.html?jumpid=in\\_pdp-psnow-qs](https://www.hpe.com/psnow/doc/a50004268enw.html?jumpid=in_pdp-psnow-qs)
- 3. Up to 28 percent better server efficiency with the new Energy Efficient mode compared to Maximum Performance mode on Power11 – Disclaimer:** Based upon IBM measurements of performance per watt on servers comparing Maximum Performance Mode to Energy-Efficient Mode while running compute-, disk-, and memory-based workloads on Power11 systems with fully configured sockets and memory as follows: E1180 with 4x10c / 64x64GB DDIMM, E1150 with 4x16c / 64x32GB DDIMM, S1124 with 2x16c / 32x32GB DDIMM, S1122 with 2x16c / 32x32GB DDIMM

- 4. 51% lower 3-year solution cost for IBM FTM High Value Payments for S1122 versus compared x86 - Disclaimer:** Based on IBM internal testing for FTM v4.0.6 Check data ingest. Transactions per second were measured for Red Hat OpenShift Container Platform 4.16 worker nodes running FTM v4.0.6 High Value Payments. Results valid as of May 29, 2025 and conducted under laboratory conditions, individual results can vary based on workload size, use of storage subsystems and other conditions. Comparison is based on an IBM Power S1122 (2x30-core/1TB) with 45 worker cores and 10 Db2 cores versus Intel Xeon x86 (2x72-core/1TB) with 108 worker cores and 22 Db2 cores. Tests were run with FTM High Value Payments accessing Db2 databases on AIX on a Power S1122 system and on RHEL on Intel Xeon server. Total cost of ownership (TCO)/solution cost is defined as hardware, software, and maintenance costs over a period of three years and price-performance is performance/3-yr TCO where hardware list pricing is based on IBM Power S1122 <https://www.ibm.com/products/> and extrapolated industry standard x86 list pricing based on IBM internal industry knowledge and software list pricing available at <https://www.redhat.com/en/technologies/cloud-computing/openshift/pricing>.
- 5. Based on IBM internal testing for Temenos Transact core banking workload (transactions per second) accessing Linux EDB databases each running 2,560,256 transactions using JMeter V5.6.3, the error ratio was kept under 1%, Results valid as of June 25, 2025 and conducted under laboratory conditions, individual results can vary based on workload size, use of storage subsystems and other conditions. Comparison is based on an IBM Power E1180 (16x16 core) with 32 worker cores versus Intel Xeon x86 (4x60 core) with 128 worker cores. Tests were run with Red Hat Enterprise Linux 9.6 on the OpenShift Container Platform Helper, Red Hat OpenShift 4.18.13 and EDB 17.5.0 on both servers.**

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Page 12 (“AI”)

- a. [Geis-group.eu](https://www.geis-group.eu), “We achieve a 5x faster business process throughput by integrating AI into our existing processes on IBM Power leveraging on-chip accelerator (MMA and SIMD) technology.”\* - Uwe Rempel, head of ZSI department, Geis Group  
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- 1. Public Preview
  - 2. GA 4Q ‘25
  - 3. Tech Preview, SoD GA (MMA) 4Q ‘25, GA (Spyre) 1Q’26
  - 4. Tech Preview
- A Based on Shibuya translation use case, meeting response time of less than 6sec for prompts with up to 1,000 input tokens

Page 15 (“PowerVS”)

- 1. TEL Service
- 2. 14x less (or better) hypervisor CVEs in PowerVM compared to hypervisors in other SAP-certified clouds based on NIST vulnerability database records for [PowerVM](#), [Hyper-V](#), [Xen](#), [KVM](#). Data as of 6th May 2025
- 3. Savings advantage published by Precision IT
- 4. Proximity case study: <https://www.ibm.com/case-studies/proximity-covenco>
- 5. FNZ case study: <https://www.ibm.com/case-studies/fnz-uk>
- 6. Retail store case study: <https://community.ibm.com/community/user/blogs/val-besong/2024/11/19/embracing-the-future-reducing-costs-and-increasing>
- 7. Up to 15-25% in Power8 or newer generation systems based on IBM’s blinded anecdotal feedback from actual customer migrations