

IBM Spyre™ for Power



Dr. Sebastian Lehrig
World-Wide AI with IBM Power
Team Leader, IBM

Aiilas




Context matters


Clients align AI use cases with their core workloads on IBM Power.

Cross-industry


ITOps | Development




IT service desk assistant



Code assistants
(RPG, Ansible, ...)




Detect & fix incidents agent



Forecast & plan capacity assistant

...

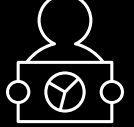
System house
DACH



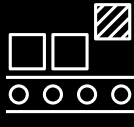
MR WILLIAMS
More Than A Convenience Store Distributor

...

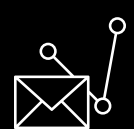
Enterprise Resource Planning




BI & HR assistant



Supply chain forecasting




Order processing assistant



Product sales assistant

...



Geis
Global Logistics

Large retailer
US


...

Industry-specific

Banking & Finance



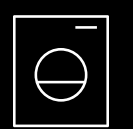
Analyst assistant
(frauds, NPAs, ...)



Predict NPAs



Open account agent



Anti-money laundering

...




CREST
— Ideate — Innovate — Implement —

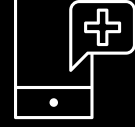


...

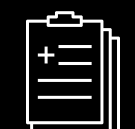
Healthcare



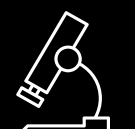
Medical assistant



Medical transcription assistant





Claims & EHR matching agent



Medical image analysis assistant


...






...


...and more



Claims & policy management agent




Private documents assistant

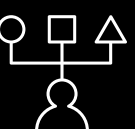


Agriculture assistant

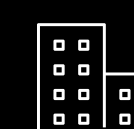
...



Predict risk & underwrite assistant




360-degree view assistant



Real estate assistant

...

EDSVÄRD



BanFast
FÖRVALTNING

MIDRANGE

Gov. client
DACH

...



AI drives transformational outcomes for IBM Power clients **today**.

5x Increase in business process rate with AI integration into existing enterprise workflows^a

Uwe Remppel, head of ZSI department, Geis Group

18x Increase in developer productivity with AI-powered code assistant^b

Jasmine Kaczmarek, VP Technology, MR Williams

“IBM Power servers are superscalar, multithreaded, multi-core servers with embedded AI acceleration technology, ideal for high-performance workloads.”

Brock Alston – CEO Rocketgraph

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 Remppel, head of ZSI department, Geis Group *: Measured in staging system.
b. [MR Williams](https://www.mrwilliams.com): “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

Nearly all enterprise pilots are stuck at the starting line

with only...

5%



...see ROI from AI.

The time for scaling AI is now
but enterprises face **obstacles**.



TOP 3 OBSTACLES



Data & integration complexity

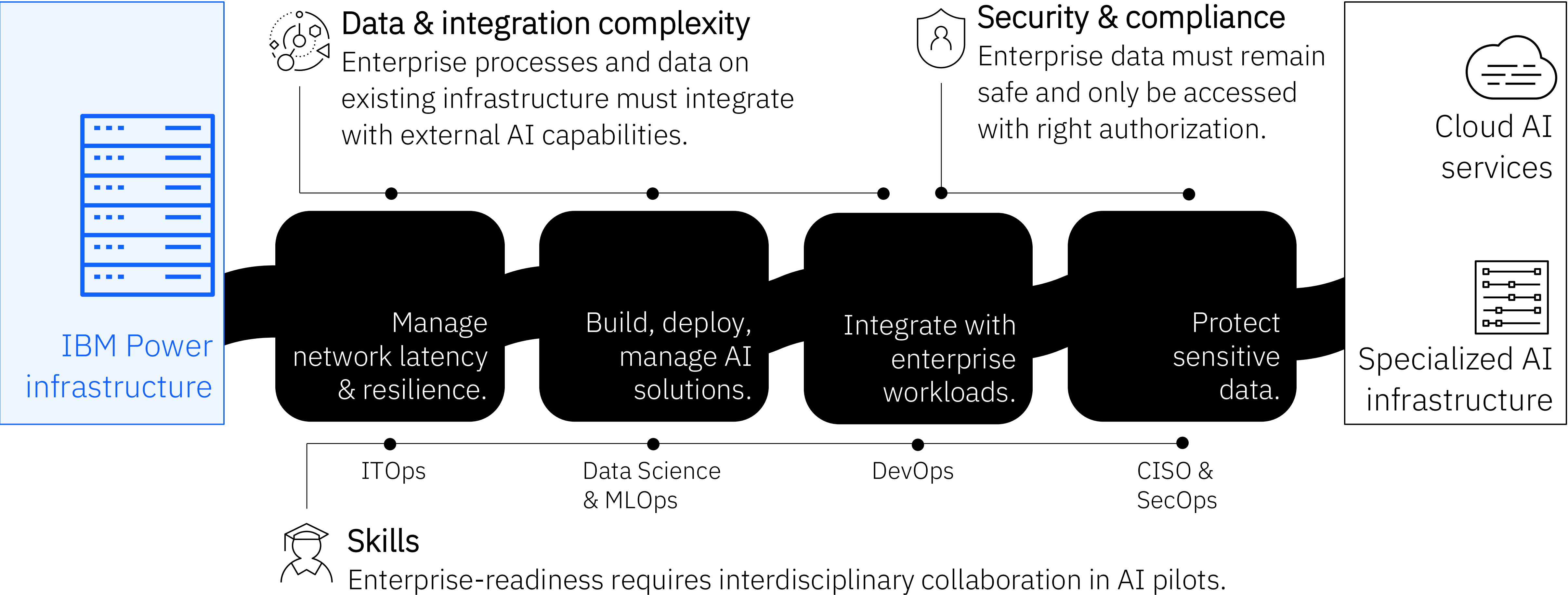


Skills

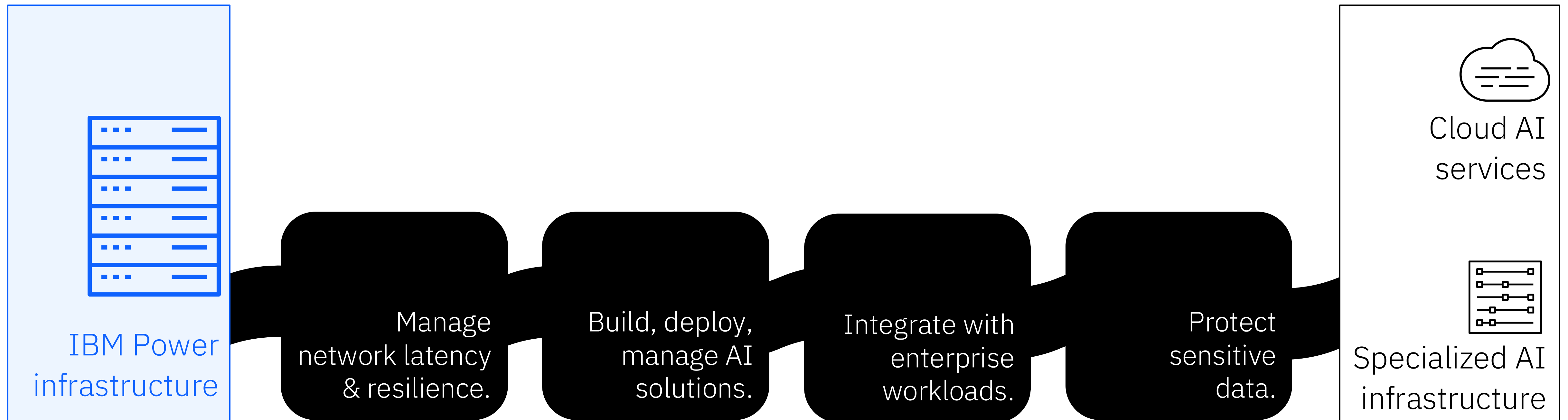


Security & compliance

Core enterprise workflows get the largest ROI from AI, if obstacles are addressed.

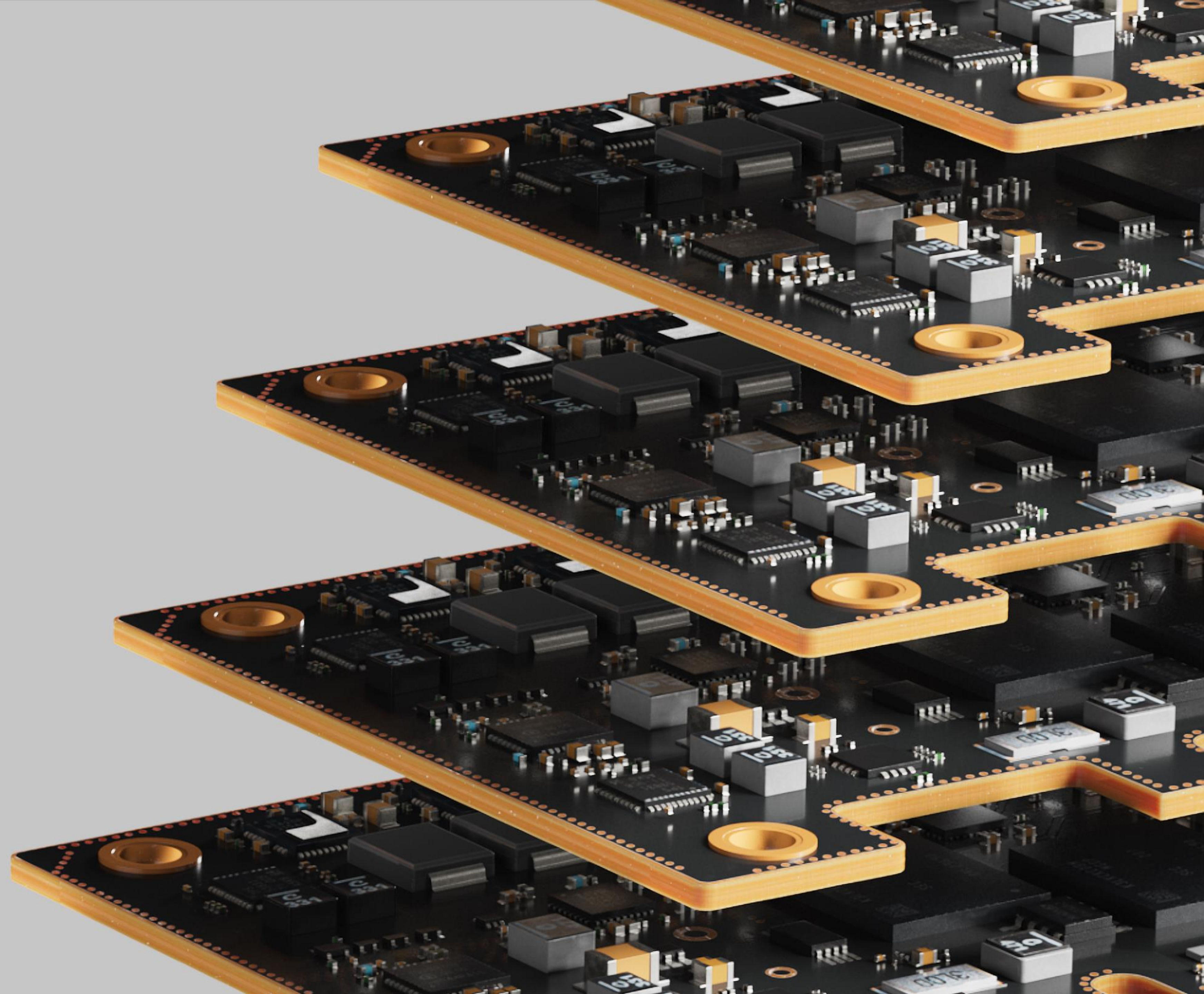


...so, what if all this now comes out-of-the-box?



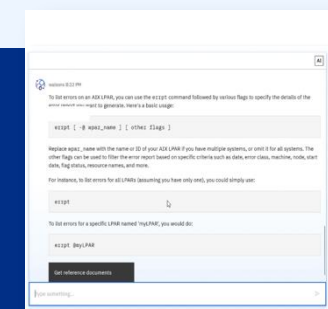
Introducing
IBM Spyre™
for Power...

Turnkey AI
for enterprise
workflows.



IBM Spyre™ for Power

Turnkey AI for enterprise workloads.



proven
adoption patterns



catalog with
pre-built AI services



integrated & optimized
inferencing platform



accelerated
infrastructure

1 click

...to install AI services
from the IBM-supported
catalog.¹

1 configuration

...to move AI services of the
IBM-supported catalog
between IBM Power & IBM
Power Virtual Server.²

> 8 million/hour

...document embeddings for
knowledge base integration
using IBM Spyre™ Accelerator for Power
with batch and prompt sizes of 128.³

Disclaimer: 1: AI services of the IBM-supported catalog are delivered as one or a set of containers that can be deployed with a single deployment command. The provided UI for the catalog executes such commands in the backend based on a single click within the UI page of the respective AI service. 2: A single configuration is enabled by exposed industry standard APIs to decouple services at the top and the backing inferencing service for all AI services that are part of the IBM-supported catalog. Any service that requires AI inferencing capabilities can connect inferencing services that provide OpenAI API or watsonx.ai API compliant inferencing endpoints (Spyre endpoint, RH AI Inferencing Server, IBM Cloud, OpenAI, Azure, AWS, GCP, ...). Services can run either on IBM Power or on IBM Power Virtual Server. 3: Based upon internal testing running 1M unit data set with prompt size 128, batch size 128 using 1-card container. Individual results may vary based on workload size, use of storage subsystems and other conditions.

Industry	Number of Agents
IT Ops Development	10
Enterprise Resource Planning	8
Banking and Finance	6
Healthcare	4
Insurance	3
Public	2
Other	1

Category	Count
Digitize Documents	10
Extract & Tag Information	10
Generate Reports	10
Knowledge Management	10
NLP to SQL	10
Q&A	10
Serve Models	10
Similarity Search	10

Install services



Support Agent



watsonx 8:57 PM

Hi, I'm your IT Support Assista

Type something...

*“By integrating our digital assistant, Charlie, with IBM Spyre for Power, we’ll be delivering a **truly plug-and-play AI solution** integrated with proprietary data on the IBM Power platform that maintains strict data compliance and, ultimately, accelerates our business forward.”*

– Alexander Edsvärd, CEO, Edsvärd Hållbarhet AB

EDSVÄRD

*“With IBM Spyre for Power, we can host our digital AI assistant locally in Sweden. This enables us to serve a wide range of clients, including the ones who demand the highest **data protection standards and compliance with European and national regulations.**”*

– Lars Nylund, CEO, BanFast Förvaltning AB



Disclaimer: BanFast is a real estates company and a client of Edsvärd, using their digital AI assistant Charlie. Edsvärd and BanFast have tested IBM Spyre™ for Power as part of a Tech Preview program. Edsvärd uses the OpenAI API standard to connect their digital assistant Charlie to AI inferencing services. The IBM Spyre™ for Power endpoint also provides OpenAI APIs (via Red Hat AI Inferencing Server). The IBM Spyre™ for Power stack allowed Edsvärd to move to IBM Spyre™ for Power in a plug-and-play fashion. Strict data compliance covers protecting sensitive information, such as personal data and credit card information, from unauthorized access or data breaches according to the most common data compliance regulations and standards such as HIPAA, GDPR, and CCPA and is achieved through an on-premises deployment in a protected IBM Power environment. The IBM Spyre™ for Power stack does not require additional networks to be setup that potentially increase attack vectors because all IBM Spyre™ for Power Accelerators are connected through PCIe cables (and not via network), ensuring protection against network attacks.

Digital assistants

being validating in IBM Spyre™ for Power Tech Preview program.

Cross-industry

ITOps | Development

System house
DACH

IT service
desk
assistant

Code
assistants
(RPG, Ansible, ...)

Detect & fix
incidents
agent

Forecast &
plan capacity
assistant

Enterprise Resource Planning

BI & HR
assistant

Supply chain
forecasting

Order
processing
assistant

Product
sales
assistant

Industry-specific

Banking & Finance

Analyst
assistant
(frauds, NPAs, ...)

Predict
NPAs

Open
account
agent

Anti-money
laundering

Healthcare

Medical
assistant

Medical
transcription
assistant

Claims & EHR
matching
agent

Medical image
analysis
assistant

Insurance

Claims & policy
management
agent

Predict risk &
underwrite
assistant

Public

Gov. client
DACH

Private
documents
assistant

360-degree
view
assistant

...and more

SEMICON
INDIA

Agriculture
assistant

BanFast
FÖRVALTUNG

Real estate
assistant

...

proven
Adoption
patterns

Digital
assistant
(RAG, ...)

Data & content
management

Recommender
system

Deep process
integration

Fraud
detection

Forecasting

Image & video
analytics

...

pre-built
AI
services

Manage
knowledge
(VectorDBs)

Serve
models

Digitalize
documents
(manual, invoice,...)

Find similar
items

Q&A

Translate &
summarize

Generate
reports

Extract & tag
information
(PII, meta data, ...)

Transcribe
(meetings, phone
calls, ...)

NLP to SQL
(Db2, Oracle, SAP
HANA, ...)


...

Deep process integrations


being validating in IBM Spyre™ for Power Tech Preview program.

Cross-industry


ITOps | Development




IT service desk assistant



Code assistants
(RPG, Ansible, ...)




Detect & fix incidents agent




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Supply chain forecasting




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Product sales assistant

Industry-specific


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Open account agent




Anti-money laundering


Healthcare




Medical assistant



Medical transcription assistant




Claims & EHR matching agent




Medical image analysis assistant

Insurance




Claims & policy management agent




Predict risk & underwrite assistant

Public




Private documents assistant




360-degree view assistant

...and more



Agriculture assistant



Real estate assistant

...

proven

Adoption patterns



Digital assistant
(RAG, ...)



Data & content management



Recommender system



Deep process integration



Fraud detection



Forecasting




Image & video analytics


...

pre-built


AI services




Manage knowledge
(VectorDBs)




Serve models



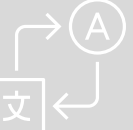
Digitalize documents
(manual, invoice,...)




Find similar items




Q&A




Translate & summarize




Generate reports



Extract & tag information
(PII, meta data, ...)



Transcribe
(meetings, phone calls, ...)



NLP to SQL
(Db2, Oracle, SAP HANA, ...)

...

Real-life example:
Extract ordering
details in the order
process automatically

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

*“5x increase in business
process rate with AI
integration into existing
enterprise workflows.”*

– Uwe Remppel, head of ZSI department, Geis Group¹

Disclaimer: 1: “We achieve a 5x increase in business process rate with AI integration 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 of Hans Geis. Without AI it takes a senior employee 2 minutes / mail = 120 seconds / mail; with AI, they can completely automate 80% with 0 minutes processing time: $(80\% \cdot 0 \text{ minutes} + 20\% \cdot 2 \text{ minutes}) / \text{mail} = 24 \text{ seconds} / \text{mail}$; leading to a factor of 5x: $120/24 = 5$.

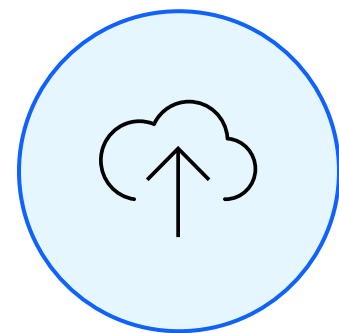




Simplify AI on-boarding

by moving between cloud & on-premises seamlessly.

Explore.



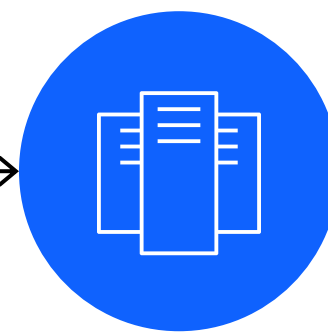
minutes

change one configuration

**Explore cloud-based
AI services**

IBM Cloud, AWS, Azure,
GCP, OpenAI, ...

Test.



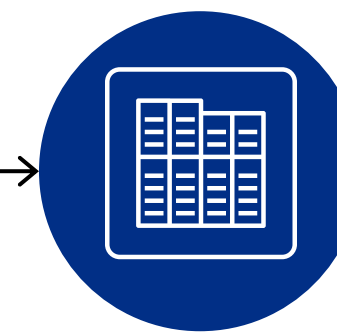
minutes

change one configuration
(when Spyre™ infrastructure is available)

**Co-locate AI services with
system of records**

IBM Power on-chip acceleration

Launch.



Promote to production

IBM Power11
+ IBM Spyre™ for Power

+ New File Plan

Folders

> Contract Management

> Crest Infosolutions Sdn B...

▼ Demo Test Site

▼ 001- Folder

> 0123

> 023-09-25

> 04-09-2024 test

> 07-05-2025 folder

> 08-09-2025

> 1

> 1- investment contract

> 11111

> 11112

> 11222

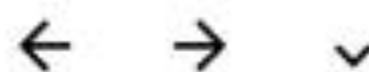
> 12111

> 122111

> 12222

> 123

> 18-08-2025



📁 > Demo Test Site > 001- Folder



Search Files and Folders



+ New Document ▾

+ New Folder ▾

Upload From PC/Laptop

Select Template



Drag & Drop

Or [Browse](#) Your Files

*“Personally Identifiable Information (PII) redaction helps to **protect against data breach & ransom scenarios**, which can cause fines on banks, insurance and other customer facing organizations, leading to loss of trust and reputation.*

*We are planning to leverage IBM Spyre for Power for PII redaction, which we believe will decrease the amount of manual work by an organization, improving their ability to **onboard customers faster and more efficiently**.”*

— Hemant Prasad, Chief Executive Officer, Crest Infosolutions




Deep process integrations


being validating in IBM Spyre™ for Power Tech Preview program.

Cross-industry


ITOps | Development




IT service desk assistant



Code assistants
(RPG, Ansible, ...)




Detect & fix incidents agent




Forecast & plan capacity assistant


Enterprise Resource Planning




BI & HR assistant



Supply chain forecasting




Order processing assistant




Product sales assistant

Industry-specific


Banking & Finance




Analyst assistant
(frauds, NPAs, ...)



Predict NPAs




Open account agent




Anti-money laundering


Healthcare




Medical assistant



Medical transcription assistant



Claims & EHR matching agent



Medical image analysis assistant

Insurance




Claims & policy management agent




Predict risk & underwrite assistant

Public



Private documents assistant



360-degree view assistant

...and more



Agriculture assistant



Real estate assistant

...

proven

Adoption patterns



Digital assistant
(RAG, ...)



Data & content management



Recommender system



Deep process integration



Fraud detection



Forecasting




Image & video analytics


...

pre-built


AI services




Manage knowledge
(VectorDBs)




Serve models



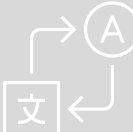
Digitalize documents
(manual, invoice,...)




Find similar items




Q&A




Translate & summarize




Generate reports



Extract & tag information
(PII, meta data, ...)



Transcribe
(meetings, phone calls, ...)



NLP to SQL
(Db2, Oracle, SAP HANA, ...)

...

Client examples & demos

aligned with core workloads; not restricted to Spyre™.

Cross-industry

ITOps | Development

System house
DACH

IT service desk assistant

MR WILLIAMS
More Than A Convenience Store Distributor

Code assistants
(RPG, Ansible, ...)

Detect & fix incidents agent

Forecast & plan capacity assistant

Enterprise Resource Planning

BI & HR assistant

Supply chain forecasting

Gels
Global Logistics

Order processing assistant

Large retailer US

Product sales assistant

Industry-specific

Banking & Finance

Demo
TechXchange 2024

Analyst assistant
(frauds, NPAs, ...)

Infosys
Finacle

Predict NPAs

CREST

Open account agent

Anti-money laundering

Healthcare

SHIBUYA
BY PULSEN

Medical assistant

SiPH

Medical transcription assistant

Claims & EHR matching agent

SiPH

Medical image analysis assistant

Insurance

Demo
TechXchange 2025

Claims & policy management agent

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Private documents assistant

360-degree view assistant

...and more

SEMICON
INDIA

Agriculture assistant

BanFast
FORVALTUNG

Real estate assistant

MIDRANGE

...

proven Adoption patterns

Digital assistant
(RAG, ...)

Data & content management

Recommender system

Deep process integration

Fraud detection

Forecasting

Image & video analytics

...

pre-built AI services

Manage knowledge
(VectorDBs)

Serve models

Digitalize documents
(manual, invoice,...)

Find similar items

Q&A

Translate & summarize

Generate reports

Extract & tag information
(PII, meta data, ...)

Transcribe
(meetings, phone calls, ...)

NLP to SQL
(Db2, Oracle, SAP HANA, ...)

...

IBM is committed to open

Models



Granite

Tools



InstructLab

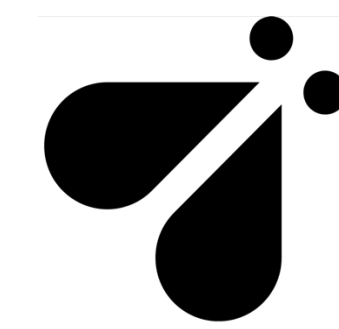


Docling

data-prep-kit

Data Prep Kit

Agents



BeeAI

Open platform



Hugging Face



kubernetes



Kubeflow



PyTorch



LLM



OpenAI Triton

Enable developers with a holistic open-source ecosystem for IBM Power

Open-Source
Integrations into
AI platforms

IBM	Red Hat	Open-source	ISV solutions
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Open-Source
For enterprise

IBM Open-Source AI Foundation for Power			
Support Support via ibm.com/support with 24/7 & 9/5 options.	Compliance Guaranteed open-source license compliance.	Hardening Continuous checks & hardening against common vulnerabilities & exposures.	Optimized Explicitly supported configurations & performance optimization for IBM Power

Open-Source
Artifacts

Built scripts Recipes for building packages for IBM Power	Python wheels Pre-built packages optimized for IBM Power	Containers Containerized components for IBM Power	Catalog Pre-built AI services & proven adoption patterns
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Open-Source
Tools

Open Source Edge for IBM Find builds for IBM Power, including SBOMs & CVE information.	GitHub Actions for Power & Z Native CI/CD in GitHub for IBM Power.	IBM Power Access Cloud (in preparation) Free access to IBM Power hardware for open-source developers.	
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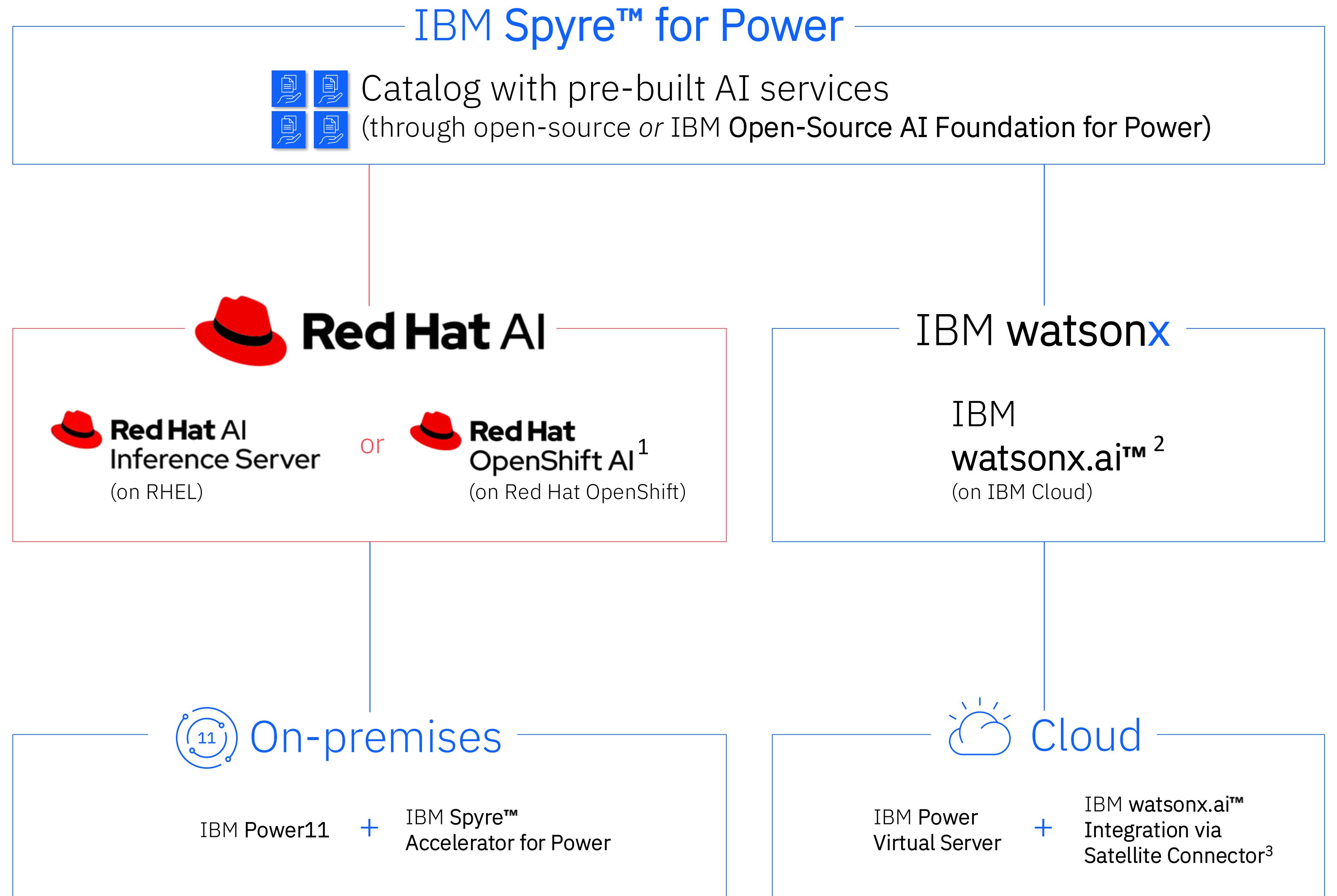
Open-Source
Communities &
blogs

Power Data and AI	Power Developer First	Power Modernization	Power Open-Source Development
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Simplify with pre-built
open-source AI
services...

...integrated with
trusted, consistent,
and comprehensive
inferencing platforms...

...empowered by
reliable & safe
infrastructure options.



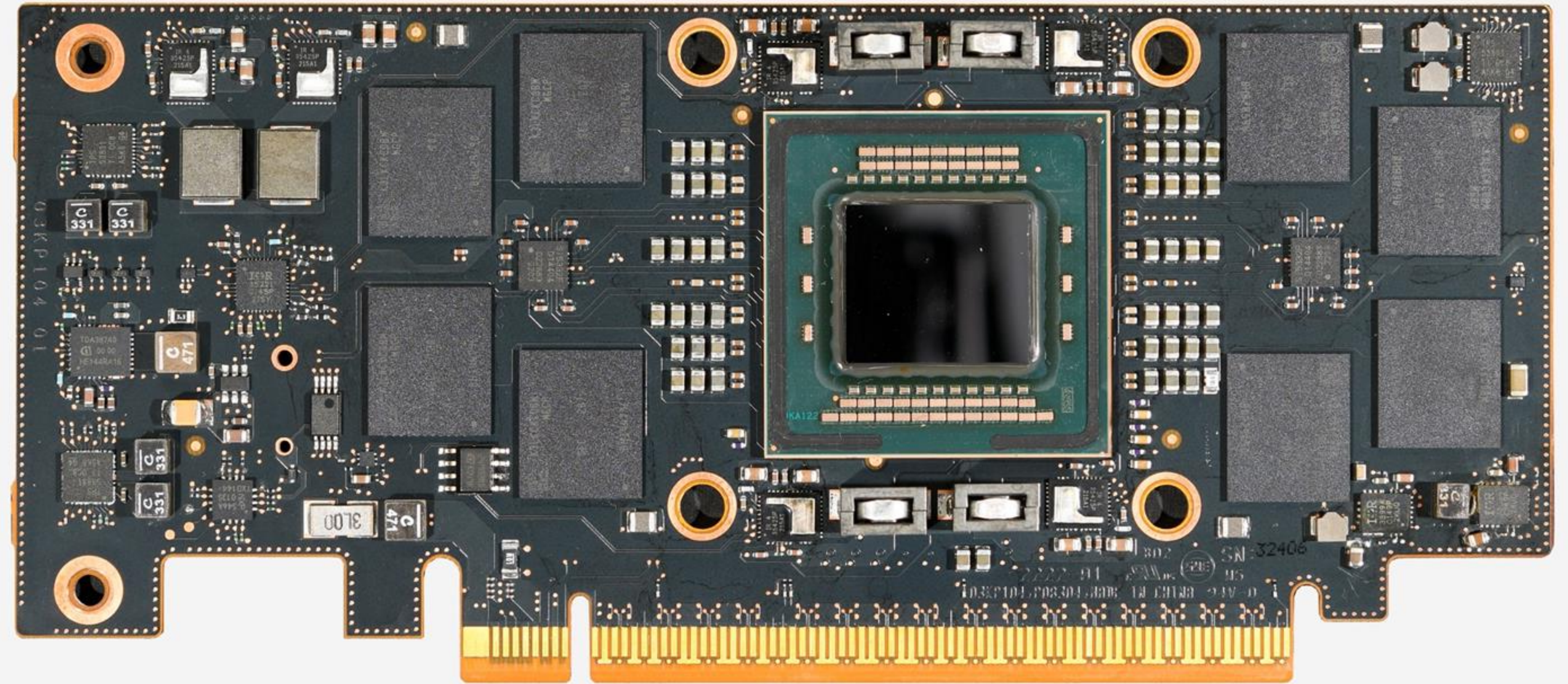
1: GA with Spyre 1Q'26

2: Integration of IBM Spyre™ for Power catalog of AI services targeted for 2026

3: <https://cloud.ibm.com/docs/powervs-watsonx-toolkit?topic=powervs-watsonx-toolkit-powervs-watsonx-ra>

IBM Spyre™ Accelerator PCIe attached card

- 360 INT8/FP8 TOPS
- 75W PCIe gen5 x16 adapter
- 128GB of LPDDR5 memory at 205 GB/s

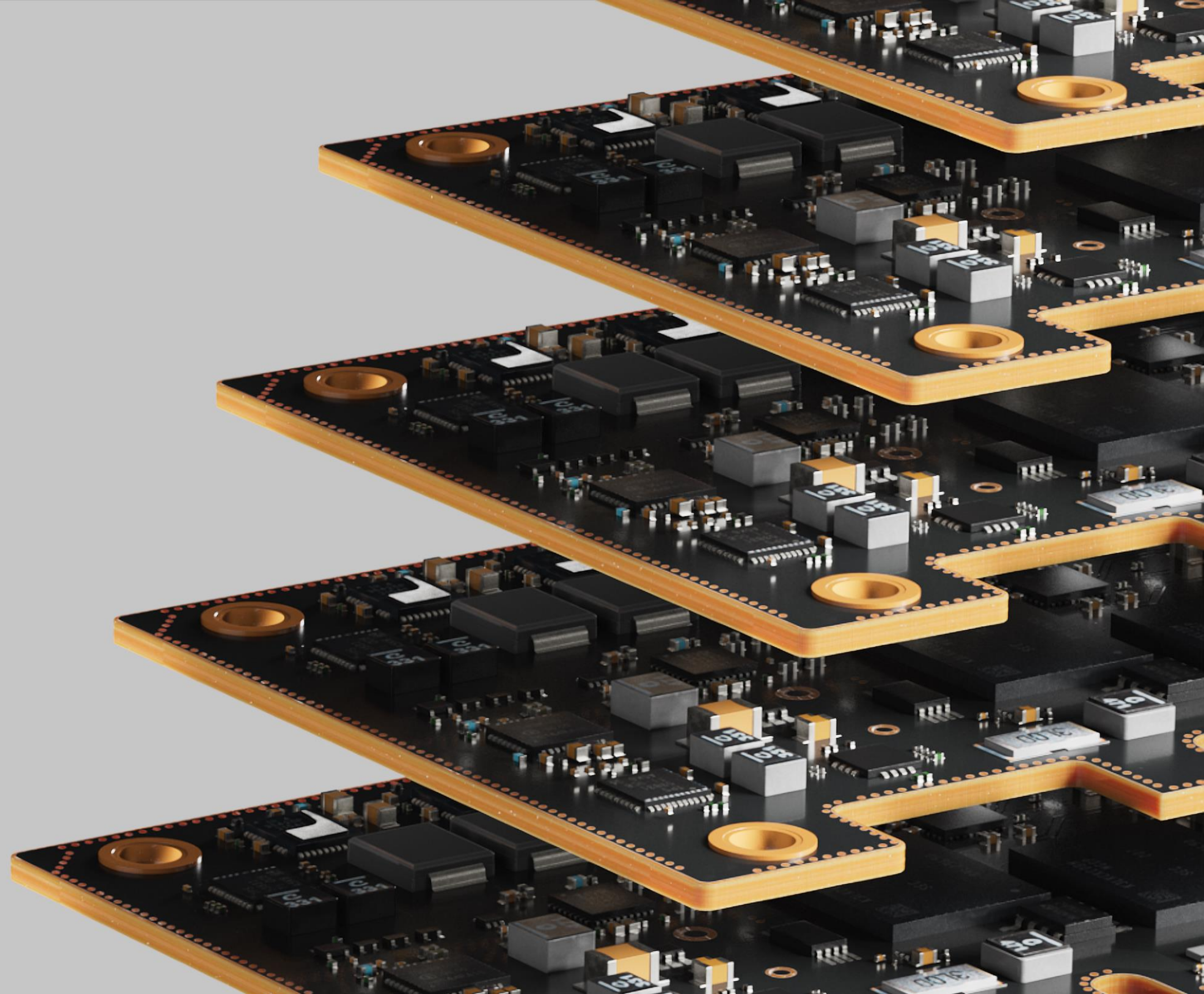


Designed to handle
generative AI use cases

8 cards in I/O drawer
form a logical cluster

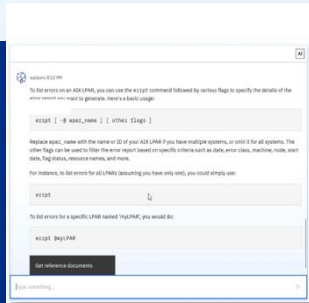
1TB of memory

1.6TB per second
aggregate memory
bandwidth




IBM Spyre™ for Power


Turnkey AI for enterprise workloads.




proven adoption patterns



catalog with pre-built AI services



integrated & optimized inferencing platform



accelerated infrastructure

1 click

...to install AI services from the IBM-supported catalog.¹

1 configuration

...to move AI services of the IBM-supported catalog between IBM Power & IBM Power Virtual Server.²

> 8 million/hour

...document embeddings for knowledge base integration using IBM Spyre™ Accelerator for Power with batch and prompt sizes of 128.³

Disclaimer: 1: AI services of the IBM-supported catalog are delivered as one or a set of containers that can be deployed with a single deployment command. The provided UI for the catalog executes such commands in the backend based on a single click within the UI page of the respective AI service. 2: A single configuration is enabled by exposed industry standard APIs to decouple services at the top and the backing inferencing service for all AI services that are part of the IBM-supported catalog. Any service that requires AI inferencing capabilities can connect inferencing services that provide OpenAI API or watsonx.ai API compliant inferencing endpoints (Spyre endpoint, RH AI Inferencing Server, IBM Cloud, OpenAI, Azure, AWS, GCP, ...). Services can run either on IBM Power or on IBM Power Virtual Server. 3: Based upon internal testing running 1M unit data set with prompt size 128, batch size 128 using 1-card container. Individual results may vary based on workload size, use of storage subsystems and other conditions.

Put AI to work with IBM Power.

- ✓ **Transform** enterprise processes
- ✓ **Boost** productivity
- ✓ **Unlock** enterprise data's value

Blue: covered today

IBM & ISV ecosystem

IBM Project Bob¹ | IBM Concert Integration

Equitus.ai | Rocketgraph | Finacle | Wallaroo.AI | [Crest](#) | [Edsvärd](#) | [ElinarAI](#)

Data fabric

[IBM watsonx.data](#)² | IBM DataStage | IBM Knowledge Catalog | IBM Orchestration Pipelines

AI foundation

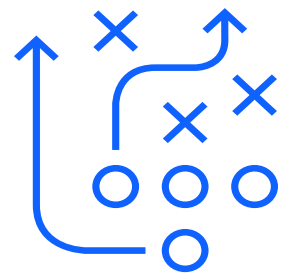
[Red Hat OpenShift AI](#)³ | [Red Hat AI Inference Server](#)² | [IBM Open-Source AI Foundation for Power](#)²

AI-ready infrastructure

[IBM Spyre™ Accelerator](#)² | [IBM PowerVS watsonx Toolkit](#)

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

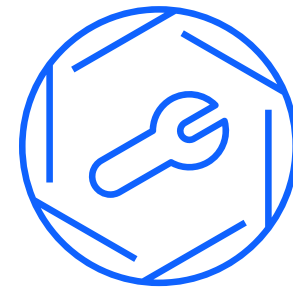
Discover turnkey AI with IBM Spyre™ for Power.



INFORM YOURSELF

Explore AI on IBM Power yourself:

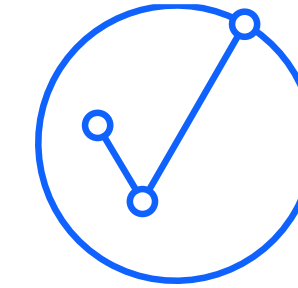
ibm.com/products/power/ai



GET BRIEFED

Meet with an IBM AI expert for custom [demonstrations of IBM Spyre™](#).

Understand where AI can help boost productivity & drive growth [without long pilots](#).



SEE VALUE

Run a [use case alignment workshop](#), try AI services for your use cases [the same day](#), and plan the enterprise integration.

Thank you

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