

Build an Al Private/Sovereign Cloud with Kyndryl and Red Hat OpenShift Al

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Agenda Market Insight, needs, challenges and opportunities How Red Hat AI can help How Kyndryl can help kyndryl.

Al/GenAl market perspective

Transition to strategic AI investments impact

- Applications
- Platforms
- Data
- Infrastructure

Al is the new strategic workload

Increasing infrastructure complexity

App ecosystem shift to Agentic Al

\$749B

anticipated spend on Al technology by 2028¹

\$304B

Spend of GenAl technology by 2028¹

Drivers

Efficiency and productivity

· Automate repetitive tasks and streamline workflows

Customer experience

· Automate and personalize customer interactions

Innovation

· Accelerate product development and focus on innovation

Cost

Optimize processes, automate tasks and provide actionable insights

Decision-making

Provide data-driven insights that enhance decision-making processes

1. IDC: WW GenAl forecast

kyndryl.

3

Major Al/GenAl use cases customers are implementing



Finance

- Fraud detection
- Risk analysis (*)
- Know your customer
- Anti-money laundering
- Personalized Banking (*)
- Investments insight



Healthcare

- Medical image analysis
- Drug discovery (*)
- Next-generation DNA/RNA sequencing
- Molecule simulation
- Clinical trial data analysis (*)



Retail

- Self-checkout
- Loss prevention
- Video surveillance (*)
- Personalized shopping
- Automated catalogs creation
- Automated price optimization (*)



Telecom

- Virtual assistants
- Network performance tuning
- Remote support (*)



Media and Entertainment

- Character development (*)
- Video editing and image creation
- Style augmentation
- Artistic content generation



Manufacturing

- Factory simulation
- Product design (*)
- Predictive maintenance
- Manufacturing safety
- Visual inspection for quality control
- Delivery robots
- Digital twins (*)
- Self-driving vehicles



Public Sector

- Document summarization (*)
- Audit compliance (*)
- Virtual assistants



Energy

- Knowledge base QA (*)
- Predictive maintenance
- Customer service

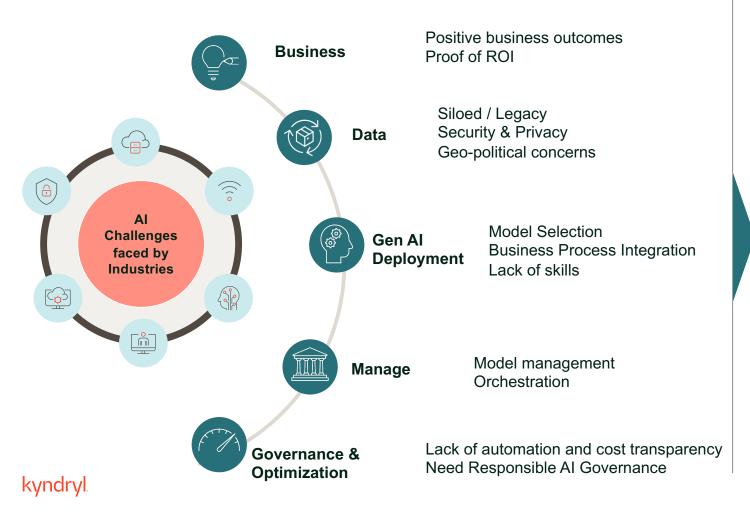


(*) Since these use cases may use proprietary and potentially critical client data during the model's training phase or to populate a RAG database, they are among the best candidates to be implemented in an AI infrastructure on a Private Cloud

4

Industry challenges and opportunities for innovation

Challenges adopting Al



Opportunities



Provide Ready to implement Industry Use Cases, leveraging Edge & AI capabilities



Al as a Service, with GPUs at Central DC or at Edge, Al Platform, complete with Security and Governance Framework



Data Preparation, Data management and Data Governance as a Service



Model Selection, development and training. **Skills for development** and human feedback.



Al Orchestration, Observability (AlOps) and Governance



Data & Al **Security**, Regulatory Compliance and **Sovereignty**

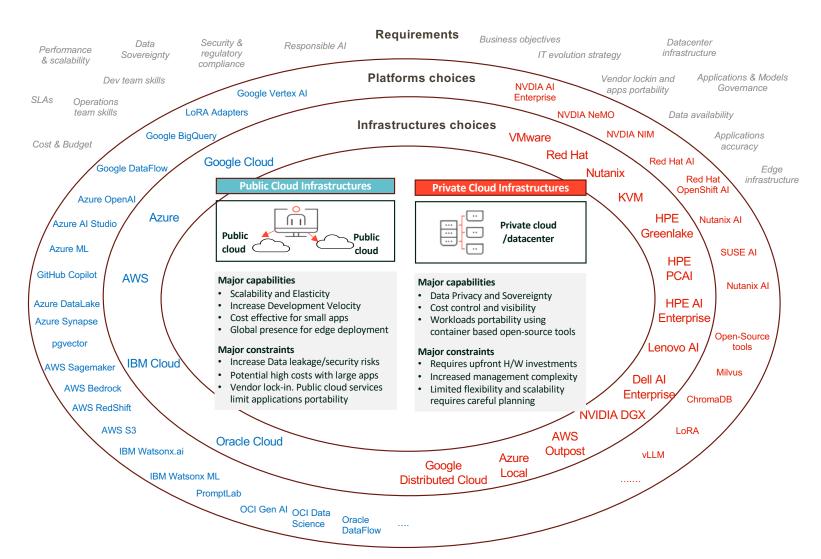
Major challenges in implementing Al/GenAl applications

Top concerns from customers

- Which Public or Private cloud infrastructures best address my needs in terms of
 - Data security, privacy and compliance, Sovereignty
 - Scalability, Flexibility and SLAs
 - Infrastructure costs and TCO
- Which Al/GenAl platform or services allows me to
 - Minimize the skills needed to develop and run my Al/GenAl applications
 - Expedite the development process and reduce the costs of running applications in production
 - Avoid vendor lock-in and allow to move my applications to any public or private cloud infrastructure without any or minimal code changes

Selecting the right infrastructure/platform for AI/GenAI workloads may be challenging

- No solution fits all
- All Al/GenAl infrastructures and platforms provide
 - Strong security
 - Support for the most common Al/GenAl tools and frameworks
 - Robustness and resiliency
- · Right choice depends on
 - Applications architecture
 - Function and non-functional requirements
 - Customer IT strategy
 - Customer skills
 - and many other factors



Examples of Al/GenAl applications mapping to different private/public infrastructures and platforms

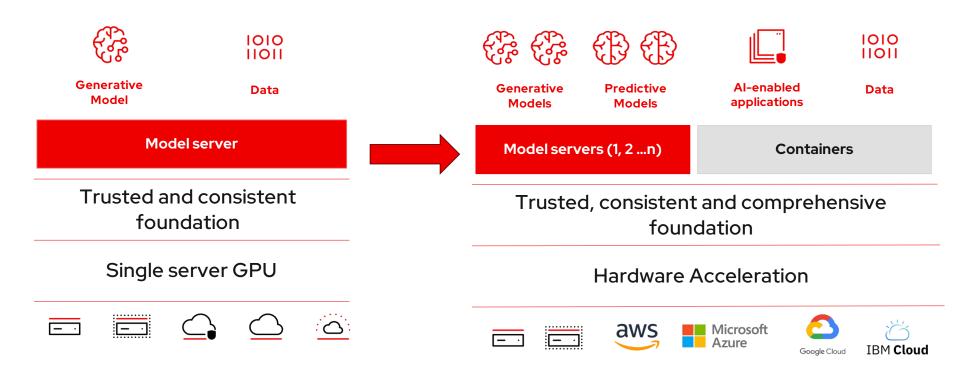
| Use case | Training | Fine-tuning | Inference |
|-------------------------------------|---|--|--|
| Call-center Chatbot | Platform: OpenAl, or Azure OpenAl Models/services: No need for training, use pre-trained models like GPT-3, o-mini, etc. Why: Existing LLMs already provide NLP and context aware conversational capabilities | Platform: OpenAI, or Azure OpenAI Models/services: OpenAI fine-tuning APIs Why require little customization for the specific domain Does not use sensitive data for fine-tuning | Platform: OpenAl, or Azure OpenAl Models/services: OpenAl inference APIs Why Does not use sensitive data Can easily scale up/down based on demand |
| Legal documents summarizer | Platform: On-premises OpenShift with GPUs Models/services: No need for training use pre-trained models like LLama3, etc. Why: Existing LLMs already provide NLP and documents summarization capabilities | Platform: On-premises OpenShift with GPUs Models/services: Parameter-Efficient Fine-Tuning (PEFT) with LoRA, adapters, or prompt tuning Why: Model tuning may require use of sensitive data and data privacy protection | Platform: On-premises OpenShift with GPUs Models/services: NVIDIA NIM for Lllama3 Why: Inference phase may handle sensitive data that might be ingested to the system |
| Marketing campaign generation | Platform: AWS, Azure, GCP Models/Services: No need for training Llama 3, Stable Diffusion Why: Existing Llama and Stable-diffusion models already provide NLP, text and images generation capabilities | Platform: AWS, Azure, GCP Models/: Llama 3, Stable Diffusion Services: AWS Sagemaker training, Azure Machine Learning Training, Vertex AI Training Why It may require significant resources to fine-tune the model to the specific domain Marketing data are in general not very sensitive | Platform: AWS, Azure, GCP Models/: Llama 3, Stable Diffusion Services: AWS Sagemaker endpoint, Azure Machine Learning endpoint, Vertex AI Endpoint Why Does not use sensitive data Can easily scale up/down based on demand |
| Predictive maintenance | Platform: On-premises OpenShift with GPUs Models: Random Forest, SVM, Logistic regression, RNN, XGBoost Services: Pythorch/Tensorflow training, Scikit-learn Why: Models use sensor data or image analysis, that might not require too many GPU resources for training. Training data might be sensitive and contain industrial secrets that should be protected | | Platform: OpenShift single node on bare-metal with GPUs Models: Random Forest, SVM, Logistic regression, RNN, Services: Single node OpenShift, K3s, KServe Why: Models need to run in edge sites, gathering sensitive data that need to be processed immediately close to the source |



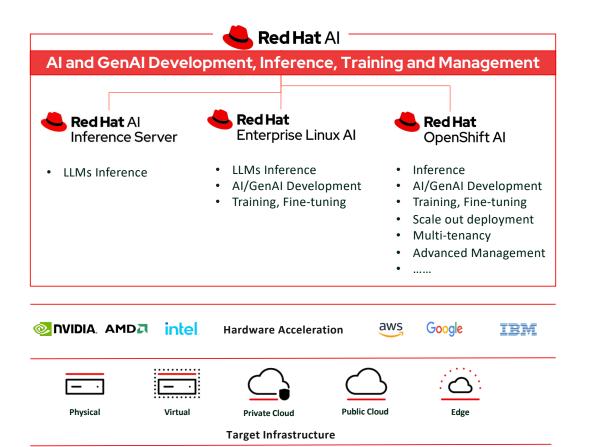
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Red Hat AI overview

From single server deployments to highly scaled-out platform architectures



Red Hat AI overview



A suite of products to build and run AI and Gen AI solutions from the PoC phase to the full production deployment

- Red Hat Al Inference Server provides an optimized Inference Engine based on vLLM to run Al/GenAl apps
- Red Hat Enterprise Linux AI adds model development, training and tuning capabilities to "Red Hat AI Inference Server" ones
- Red Hat OpenShift AI includes capabilities of "Red Hat Enterprise Linux AI" and "Red Hat AI Inference Server".
 - Built on OpenShift Container Platform
 - provides the most advanced capabilities for Developing, training, fine-tuning, run and manage large scale AI/GenAI applications in an enterprisegrade production environment

Red Hat AI major features



- Red Hat AI Enterprise Linux AI +
- Supports AI and Generative AI models
- Based on "Open Data Hub" open-source, includes most popular open-source tools for training, serving and monitoring AI/GenAI models
- Based on OpenShift Container platform, it guarantees best SLOs for multi-tenant and large-scale AI/GenAI applications deployments





- LLM Inference Engine
- Powered by vLLM, most powerful Linux engine for GenAl Inference
- increase inference efficiency with LLM Compressor capabilities
- Single Server deployment

- Supports many different Generative Al models
- Provides access to Granite models
- Provides access to InstructLab
- Single server or VM deployments
- includes RHEL image mode

Model Training

- Collaboration projects
- JupyterLab
- Out-of-the-box Notebook Image
- Custom Notebook Image
- PyTorch
- Tensorflow
- · Version control (Git)
- Package Management (Anaconda)

Model Serving

- KServe
- ModelMesh
- · OpenVINO Model Server
- Caikit
- TGIS
- vLLM
- Custom runtimes

Distributed Training

- CodeFlare stack
- NVIDIA TAO Toolkit
- · Watsonx.ai Tuning Studio

GPU/Accelerators

- NVIDIA, Intel, AMD
- NVIDIA NIM, NVIDIA Rapids
- Intel Al Analytics

MLOps/Workflows

- Data Science Pipelines (KubeFlow)
- GitOps

Monitoring and Governance

- Model Mesh metrics
- Prometheus
- OOB performance & Ops metrics
- Pachiderm

RedHat OpenShift AI new/enhanced features

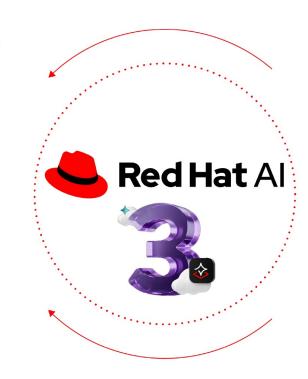
Announcements

Flexible and Efficient Inference

- ► GA distributed inference (Ilm-d)
- ▶ New validated and optimized models
- vLLM enhancements
- ► LLM Compressor GA

Connecting Models to Data

- Modular and extensible approach for: data ingestion, synthetic data generation, tuning, evaluations.
- ▶ RAG enhancements & partner integrations
- ► Continual Post Training Algorithm
- ► Feature Store GA



Agentic Al

- ▶ Al experiences: Al hub and gen Al studio
- Model Context Protocol support & MCP
 Server access in gen Al studio
- ► Llama Stack API integration

Al Platform

- ▶ Model catalog and registry GA
- Model as a Service provider enhancements and API Mgt integration
- ► GPU as a Service enhancements

Single platform to run any model, on any accelerator, on any cloud

RedHat OpenShift AI high level architecture

Based on the open-source Open Data Hub project provides

Al/ML modeling and visualization tools

- JupyterLab UI with prebuilt notebook images and Python libraries
- TensorFlow, PyTorch,
 CUDA, Kubeflow, Anaconda (optional)
- Parallelized and distributed workloads (KubeRay, CodeFlare)
- Data drift and Bias detection
- Efficient fine-tuning with lowrank adapters (LoRA)

Model serving and monitoring

- Model serving (KServe with user interface), vLLM serving runtime
- Model monitoring,
- OpenShift Source-to-Image (S2I),
- Red Hat OpenShift API
 Management (optional add-on),
- Intel Distribution of OpenVINO toolkit (*)
- Support for NVIDIA NIM

Data engineering

Starburst (optional), Pachyderm (optional)

Data ingestion and storage

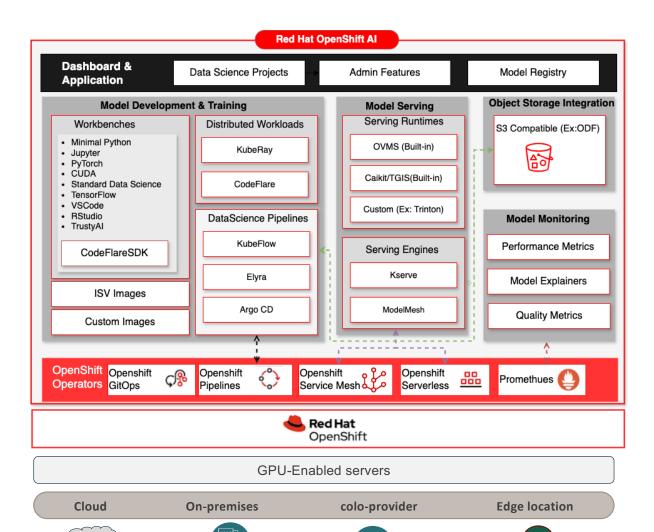
- Model registry, Red Hat AMQ (optional add-on);
- Amazon Simple Storage Service (S3)

Data science pipelines

Kubeflow Pipelines to chain together processes like data preparation, build models, and serve models

GPU support

- NVIDIA GPUs
- AMD GPUs
- Intel GPUs (including Xeon, Gaudi, and Intel Data Center GPU Flex Series))





How Red Hat OpenShift AI address the needs of multiple actors in AI/GenAI space

- precious resources
- must be productive from day1

Boundaries between teams is thinning more and more, they need to work as a single team to address these new challenges

Face completely new challenges like

- · Implement AI/GenAI feedback loops
- · monitor performance, fairness, etc.
- · models' security, compliance, tracing, etc.





- **Al workbenches** provide all the tools needed to develop, train and tune Al&GEnAl apps
- Al self-service catalog allows people to deploy what they need with a button click
- **NVIDIA AI Enterprise integration** allows to integrate advanced Al/GenAl services like NVDIA NeMO, NIM, etc.
- Data Science Pipelines allow to automate all the development and production deployment phases of Al/GenAl apps
- Al Model Monitoring provide deep inside of Al and GenAl models behavior and performances
- Multi-platform support allows to develop, run and manage Al/GenAl apps on any private/public cloud seamlessly, with zero code changes
- **Container's Orchestration Platform** facilitates the development and management of microservices-based Al/GenAl applications

Red Hat OpenShift Al



Red Hat OpenShift Container Platform

Red Hat AI key benefits



Accelerate time to market:

Microservices architecture significantly decrease the time to develop and deploy scalable, resilient, and adaptable applications



- Leverage catalog of ready-to-use tools for AI/GenAI training, tuning, inference
- Leverage MLOPs built-in capabilities to automate the models tuning, inference and validation loop

Improve IT Operations productivity

- Leverage MLOPs built-in capabilities to automate the setup of dev/staging or production environments
- Leverage built-in models monitoring to get deep inside of AI and GenAI models behavior and performances



Enforce data compliance and sovereignty

- Keep mission-critical data secured in house and under your control
- reduce the risk of data leakages
- Operational resiliency & sovereignty
- Trust and transparency

Avoid Vendor Lock-in

- Leverage Open-Source Al/GenAl frameworks and tools
- Build and Run AI/GenAI applications everywhere, on private or public clouds, with zero code changes

Meet most demanding SLOs:

OpenShift Container platform guarantees best SLOs for multitenant and large-scale AI/GenAI applications deployments



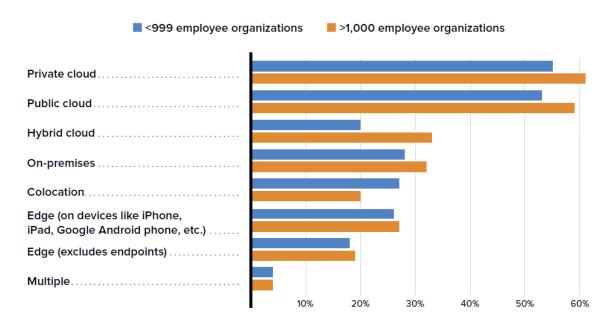
Optimize Infrastructure costs

- Leverage the support of multiple H/W vendors and different cloud providers to select the most convenient infrastructure solution
- Leverage built-in support for HCI storage as an alternative to more complex and costly SAN/NAS storage
- Choose between managed and self-managed solutions and Capex, Opex and pay-per-use models



Red Hat AI on Private Cloud Key benefits





Source: IDC's AI StrategiesView 2022

For AI/GenAI workloads, **Private Cloud is the first choice** for customers that need

- Complete control of the infrastructure
- · Data security, sovereignty and compliance
- Cost control
- Strong SLAs requirements
- · Avoid vendor lock-in
- Flexibility in the choice of AI/GenAI tools
- Run applications on central datacenter and edge locations
- Maintain some footprint on-premises

The combination of ReHat AI on a Private Cloud, can help to address many customer challenges



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Kyndryl helps clients to implement Al/GenAl solutions across the entire stack

| Area | Description | Examples | |
|----------------------|--|---|--|
| Application Layer | Design, build and manage Business-facing solutions that apply AI/GenAI to solve specific use cases, improve productivity, or generate value | Agentic Al | |
| | | Al chatbots & virtual agents, Recommendation Engines, Fraud detection, etc | |
| | | Predictive maintenance, Anomaly detection, etc | |
| Platform Layer | Design, build and manage the core virtualization, orchestration and Al/GenAl platforms to develop and run Al/GenAl models, workflows, and data pipelines | VMware, Red Hat, Nutanix, Suse, Azure local, AWS Outpost, Google Distributed Cloud | |
| | | Kubernetes, Tanzu, OpenShift, Rancher, AKS, EKS, GKE | |
| | | OpenShift AI, NVIDIA AI Enterprise, Open-source AI/GenAI frameworks | |
| | | PyTorch, TensorFlow, Triton, NVIDIA NIM, Milvus, KubeFlow,, Ray, TrustyAl, LangChain, Haystack, CrewAl, AutoGen, etc. | |
| Infrastructure | Design, build and manage the underlying accelerated compute, storage, and network infrastructure that enable scalable and efficient AI operations | Hardware: Dell, HPE, Lenovo, NVIDIA, etc. | |
| Layer | | H/W Acceleration : NVIDIA L40s/H100/H200, Bluefield, AMD Instinct, Alveo, Pensando, Intel Habana, Arc, etc | |
| (HW & SW) | | Software: NVIDIA CUDA X, CUDA X-AI, Magnum-IO, vGPU, GPU Operator, Network operator, etc | |

Strategic Benefits

Data Privacy and Security: Deployment in strictly controlled environments guarantees data sovereignty and compliance.

Cost Control: Keep the direct control of H/W cost and S/W licenses usage.

Customization: Open-source frameworks + industry standard tools enable tailored Al deployments.

Avoid vendor lockin: Containerized AI/GenAI apps built on open-source frameworks can run on any private, hybrid or public cloud platform



Kyndryl approach from Consulting to PoC and production

Provide Consulting Services for Al/GenAl adoption

- Assess AI maturity and data and infrastructure readiness
- Analyze business goals
- Prioritize Al/GenAl use cases
- Lay down AI/GenAI adoption strategy and roadmap for
 - AI/GenAI applications
 - accelerated infrastructure

Implement a Proof-of-Concept Environment

- Conduct Kyndryl Vital and PoC planning workshop
- Implement AI/genAI PoC based on agreed application scope
 - Prepare and set up data
 - Prepare PoC infrastructure
 - Develop PoC AI/GenAI applications
 - Develop Data ingestion/pipeline
 - Deploy LLM models and test
- · Analyze results and plan future strategy

Design and build Production Environment

- Design AI/GenAI applications based on use cases in scope, PoC analysis and recommendations
- Assess and size AI/GenAI infrastructure and platform
- Design and implement AI/GenAI infrastructure and platform
- Implement MLOPs/LLMops pipelines and deploy the applications

Manage Production Environment

- Provide management services for AI/GenAI applications
- Provide a Kyndryl fully managed AI/GenAI platform and infrastructure with required SLAs
- Optimize for enterprise-level LLM deployment
- Provide flexible consumption and payment models

Kyndryl services enable clients to realize faster time to value for Al/GenAl technologies, through a flexible set of services

- Customer can engage Kyndryl in any of the phases as they need, from consulting, PoC, Design, Implementation and management
- Customer can leverage Kyndryl services to help with the Al/GenAl enabled Infrastructure and platform, or with the Al/GenAl applications or both



Kyndryl services for Data and Al/GenAl Infrastructures with Red Hat OpenShift Al

AI Operations and Data Services

Kyndryl Generative Data Observability Console Kyndryl Data foundation and model framework

AI/GenAI Microservice Platform

AI//GenAI and data science tools and frameworks,
Optimized Inference engines,
integration with NVIDIA AIE (i.e NIM, NeMO, etc.)
Data and retrieval-augmented generation (RAG)





Red Hat

OpenShift Al

Containers Orchestration Platform

Al-optimized Containers Orchestration platform based on industry leading Red Hat OpenShift solution

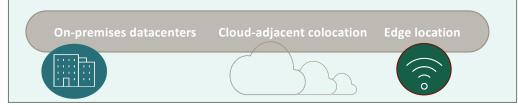
D¢LLTechnologies

Hewlett Packard Enterprise

Compute Network Storage

GPU-accelerated compute and AI-optimized storage sized for AI workloads





Data and AI operations services

- Efficient LLM operations
- Comprehensive data foundation and governance services
- Complete Data Observability Services and Console

Al/GenAl platform services

- Container orchestration based on OpenShift
- Optional HCl storage based on OpenShift Data Foundation
- Model training, inferencing, fine-tuning using OpenShift Al
- MLOps/LLMOps based on OpenShift AI data pipelines
- Optional infrastructure for retrieval-augmented-generation
- Advisory, design and build services
- Managed by client, or Managed hosting by Kyndryl in as-aservice model

Al/GenAl enabled Infrastructure services

- GPU accelerated servers based on HPE or Dell
- Infrastructure sized according to application requirements
- Flexible hosting in client, colo, edge or Kyndryl datacenter
- Flexible cloud OPEX model
- Advisory, design and build services
- Managed by client, or Managed hosting by Kyndryl in asa-service model

Manage

Build

Design

Kyndryl services for Data and Al/GenAl Infrastructures with Red Hat OpenShift Al

Secured, Dedicated, single-tenant, on-premises Platform deployment

- GPU-enabled servers, with storage and network designed to meet required LLM response time and throughput, based on Dell or HPE H/W with NVIDIA GPUs
- GPUs-enabled Red Hat OpenShift for microservice and application deployment
- · Security rich, air gapped platform ideal for regulated or private workloads

Optimized for AI - Inferencing with RAG

- Red Hat OpenShift AI used for AI/GenAI and data science tools and frameworks
- Optionally integrate NVDIA AI Enterprise services (e.g. Nemo, NIM, etc.)
- Data Science Pipelines based on embedded KubeFlow
- RAG infrastructure based on Milvus

Deployed by Kyndryl, can be managed by client or delivered as-a-service by Kyndryl

- Kyndryl Design and Build the platform in customer premise or colo provider location
- Client can manage the platform by itself or have it managed by Kyndryl (24x7x365 based on defined SLOs and KPIs for GenAl workloads)
- If managed by Kyndryl, the platform can be delivered as-a-service
- · Platform components can be delivered independently if required by customer

Different OpenShift AI deployment models

OpenShift AI Infrastructure

- RAG, Vector DB (Milvus)
- OpenShift Al
 - Inference serving runtimes
 - Training/fine-tuning frameworks
 - Al/GenAl tools/frameworks
 - Data Science Pipelines
- GPU-enabled Clusters
- OpenShift Container Platform
- OpenShift Data Foundation (optional)

H/W Infrastructure

- NVIDIA GPUs
- HPF/Dell Servers



Datacenter

OpenShift Al Edge Inference

- Kserve, vLLM,OpenVINO
- GPU-enabled single node
 OpenShift or MicroShift

H/W Infrastructure

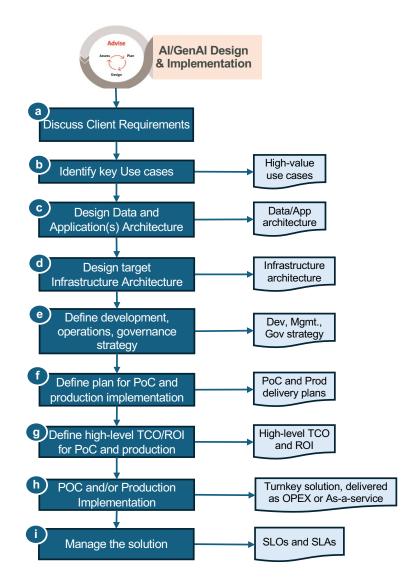
- NVIDIA GPUs
- HPE/Dell Servers



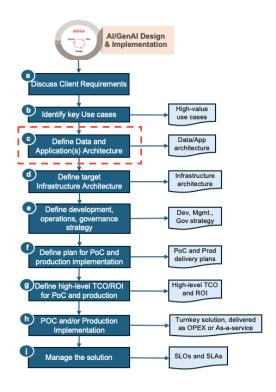
Edge

The Kyndryl approach

Kyndryl can help clients in the realization of a Private Cloud solution for Al/GenAl using an holistic approach that analyzes all the different aspects and phases of the analysis, design, implementation and management of such solution



An example – Design Data and Application(s) architecture



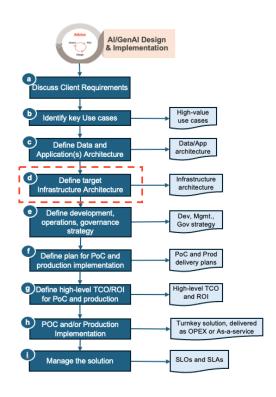
Define high level data and application(s) architectural design

- → Understand which data are used, where they originally reside, how they should be prepared and where they should be stored for the AI/GenAI applications use
- → Understand application scenario, models used, required latency/throughput, etc.
- → Pay attention to application requirements in terms of training, fine-tune, RAG, inference
- → Look for most popular applications in the same industry and search for applications blueprints, or for most common vendors/solutions in that industry
- → Create the high-level design of the application(s), including the major data flows and the MLOps/LLMOps processes

Kyndryl Reusable assets and supporting material

 Use <u>Data & Applications Architecture Patterns</u> folder where you can find Al/GenAl Applications Blueprints from Google, Azure, NVIDIA and Red Hat

An example – Design Infrastructure Architecture



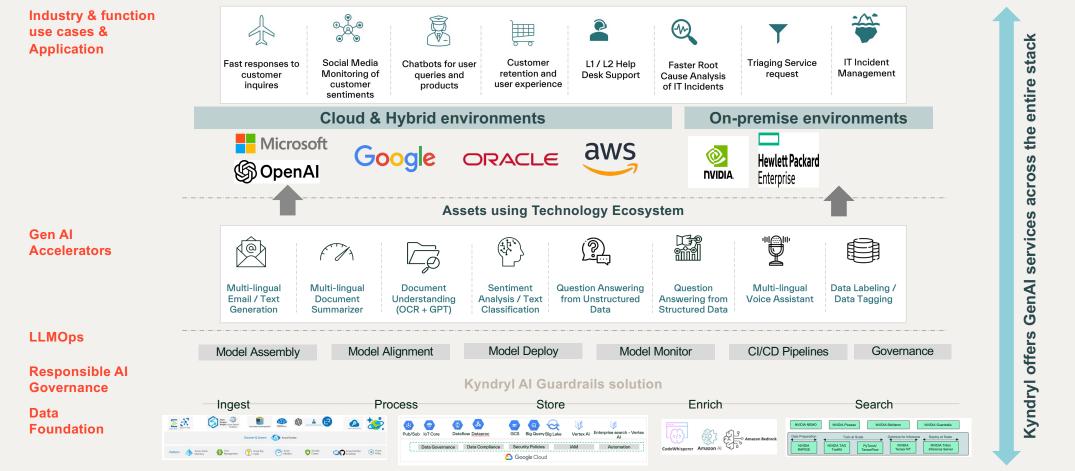
Design an AI/GenAI Infrastructure architecture requires deep investigation

- Right size the infrastructure based on application requirements
 - Type of Al Models (Computer Vision / NLP/ Reinforcement learning / Deep Learning)
 - Model size (e.g. Llama-70B, Mistral-7B, Llama-13B, etc.)
 - Application requirements and architecture Training, fine-tuning, RAG, inference only?
 - Data size Number of I/O tokens, system prompts) Image resolution, Audio sample rate, Text length etc.
 - Performance objectives Time-to-first-token (TTFT), Inter-Token-Latency (ITL), E2E Latency
 - Scalability objectives Number of concurrent requests per sec/min, Output Tokens generated per sec/min
 - Model accuracy Precision used to train and evaluate the models
- GPUs how many GPUs and GPUs types,
- GPUs topology single, NVLink or GPUs Fabric
- Network and storage infrastructure Infiniband, Ethernet, 25/100/200/400GB, RoCE, GPUDirect, etc..
- Servers' configuration PCIe switches, Accelerated NICs/DPUs, CPU/RAM/DISK
- Datacenter power & cooling wattage, heat dissipation, cooling type (air/liquid), cooling capacity, etc.
- Edge Deployment Security, network, storage, etc.

Kyndryl Reusable assets and supporting material

- Al-GenAl Infrastructure Architecture patterns
- AI-GenAI Sample BOMs
- GPU Sizing guidance & tool
- Red Hat OpenShit Al Reference architecture, etc

Kyndryl AI capabilites across different Technologies



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26

Leverage Kyndryl expertise in the field of Al/Gen Al

Skills & Expertise



- Dedicated team of GenAI SMEs, consultants, architects and engineers certified across hyperscalers and on-prem with proven experience in GenAI
- Deep domain expertise after handling multiple customer scenarios
- Continued investments in hiring and upskilling
- 350+ Data and AI patents

Investments



- Building a CoE with Microsoft across GenAI, Data Foundations (Fabric, Purview), & Apps Modernization and Responsible AI Partner (one of 11)
- Multi-year strategic agreement -AWS Joint Innovation Factory to build industry solutions in GenAI/ML
- Joint partnership with Google focused on GenAl solutions, Al Governance & Data, SAP data & Al modernization
- Collaboration with Nvidia and Dellfor private AI/ GenAI solutions

Kyndryl as Customer 0



- Embedding GenAl in our delivery capabilities: Kyndryl Bridge – Natural Language ChatOps for querying IT / ticketing data
- Several GenAl solutions for CFO/ Solutioning organizations, such as Kyndryl IR Advisor bot to support Q&A, meeting prep, information retrieval and summary from investor reports, calls, market news

Assets



Pilots & solutions in production



- LLMOps (Large Language Model Ops) console & Platform to scale responsibly GenAl solutions & models
- GenAl assets such as: Kyndryl SRE
 Assist to speed up end2end DevOps
 automation, code modernization to
 translate code between languages
- Industry solutions, such as: Automated Quality Inspection leveraging Vision AI, Worker Safety, etc.
- Robust consulting framework, and methodologies (GenAl risk assessment, data foundations assessment framework, etc.)

- Social media sentiment analysis, personalised responses and responses to information seeking question
- Natural language queries to fetch data from database
- Issue resolution for contact centre leveraging FAQs and customer data in WhatsApp
- Q&A from large contractual documents for government entity
- ...





Questions?



Nov 2025



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