Red Hat Summit

Connect

Boston Children's Hospital

Demo by dr. Rudolph Pienaar

16 October 2024

Red Hat Summit: Connect
The Netherlands

Red Hat

Boston Children's Hospital

Dr. Rudolph Pienaar

Staff Scientist

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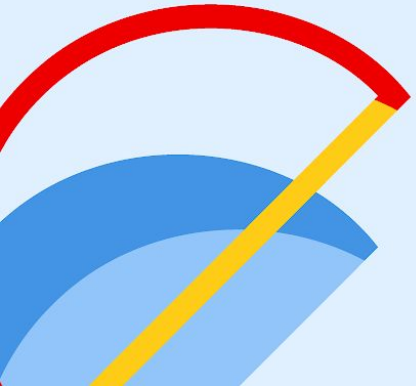

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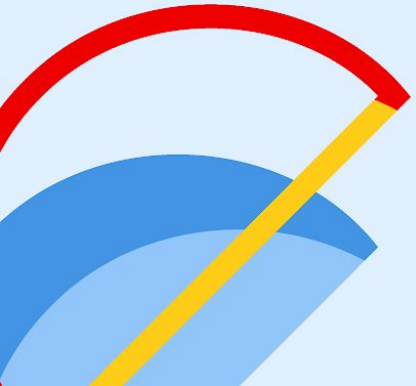
ChRIS

ChRIS is a pervasively open source framework that utilizes cloud technologies to democratize medical analytics application development and enables healthcare organizations to keep owning their data, while benefiting from public cloud processing capabilities.



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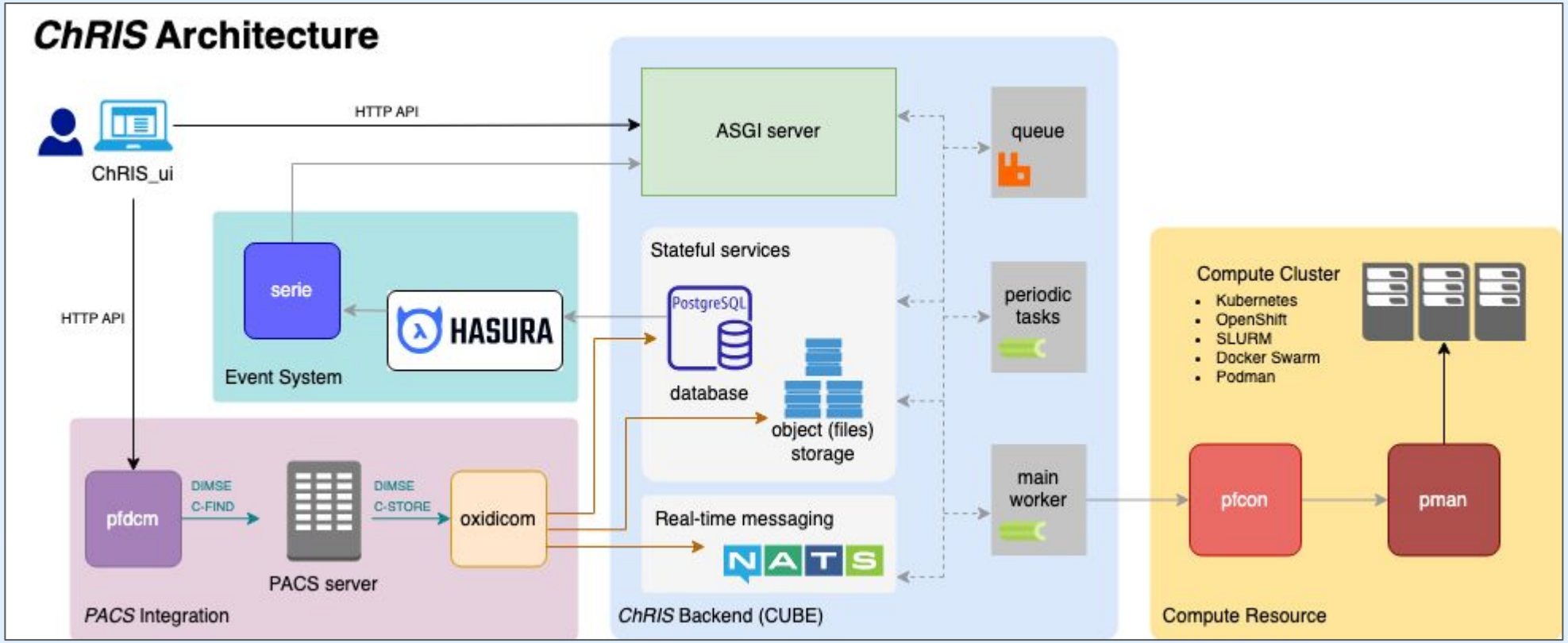
Architecture



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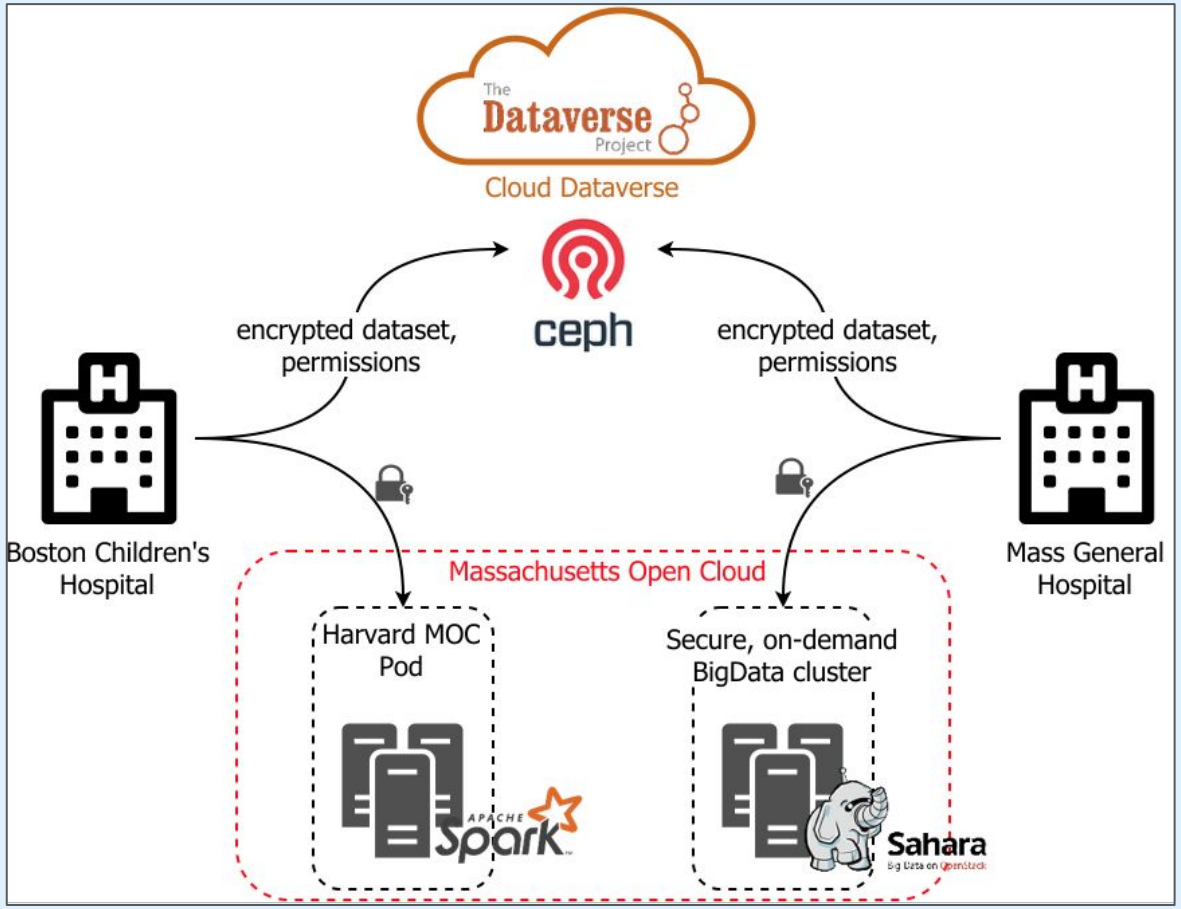
Collaboration with Red Hat



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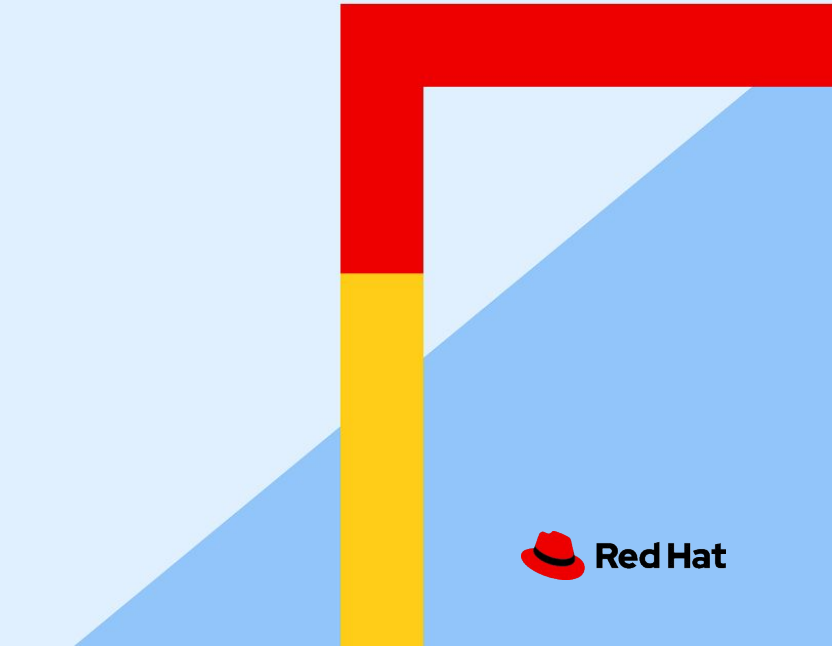
Demo



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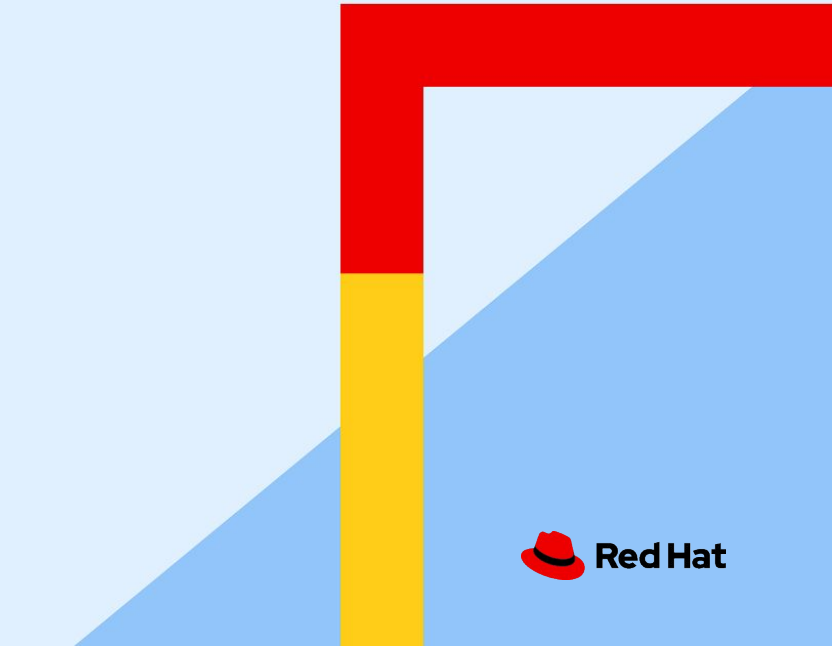
Back up slides

From Chicago presentation



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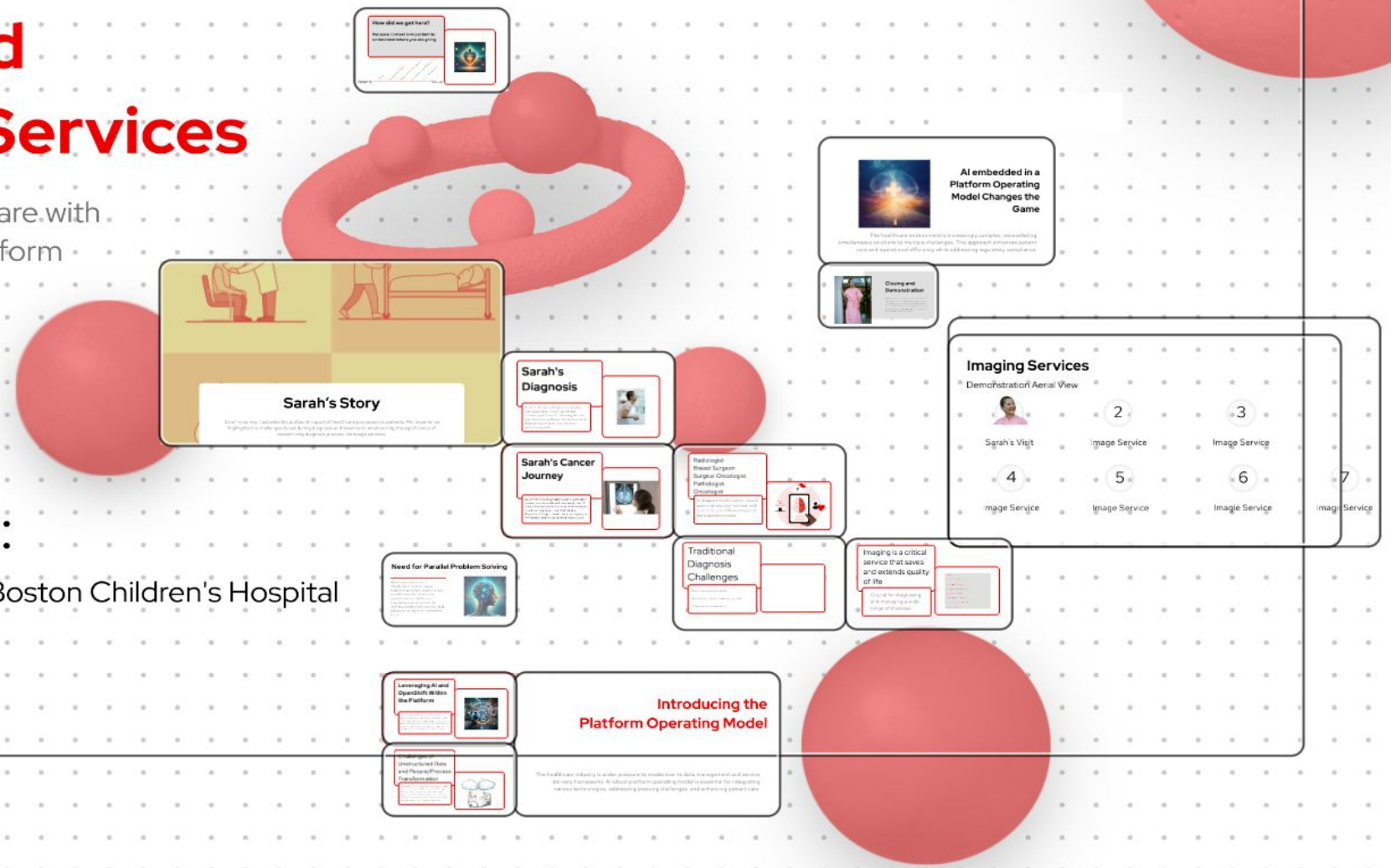
AI Infused Imaging Services

Transforming Healthcare with Integrated AI and Platform Innovations



Presented by:

Rudolph Pienaar, PhD-Boston Children's Hospital
Dwight French-Red Hat
Raghu Banda-Red Hat

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Traditional Diagnosis Challenges

Time-consuming process for clinicians

Anxiety for patients awaiting results

Potential for human error

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Imaging is a critical service that saves and extends quality of life

Crucial for diagnosing and managing a wide range of diseases

1	Cancer
2	Cardiovascular Disease
3	Neurological Disorders
4	Musculoskeletal Disorders
5	Pulmonary Disease
6	Gastrointestinal Disorders
7	Rendal and Urological Conditions
8	Infectious Diseases

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Introducing the Platform Operating Model

The healthcare industry is under pressure to modernize its data management and service delivery frameworks. A robust platform operating model is essential for integrating various technologies, addressing pressing challenges, and enhancing patient care.

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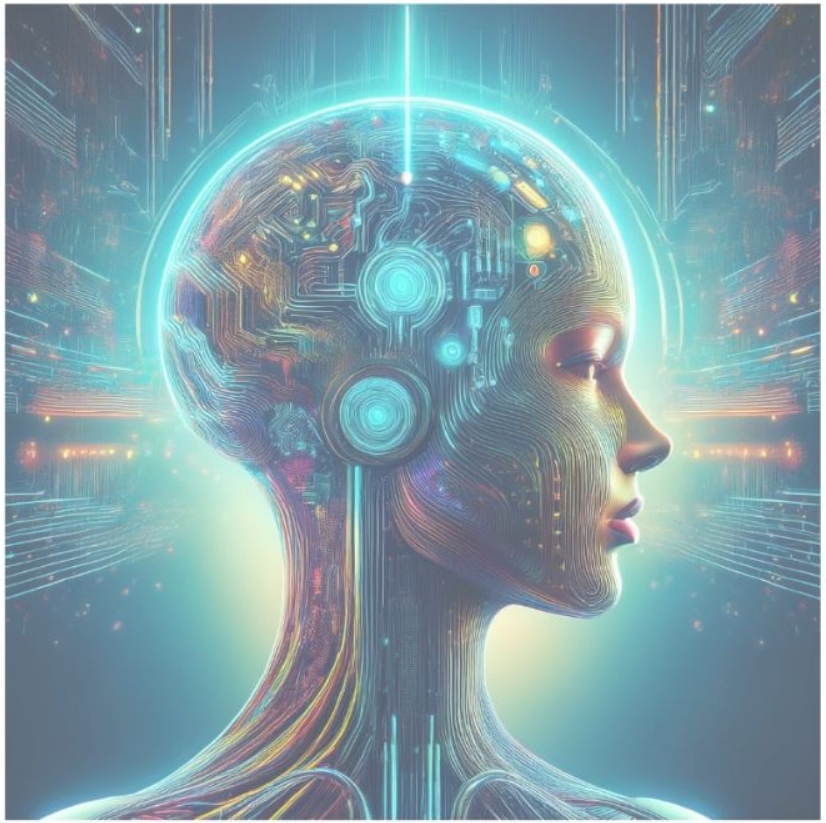
Need for Parallel Problem Solving

Healthcare's traditional IT infrastructure relies on legacy systems that impede responsiveness and efficiency. As patient care demands evolve, healthcare organizations must transition to innovative models that allow for rapid adaptation to regulation and market forces.



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Leveraging AI and OpenShift Within the Platform

Red Hat OpenShift serves as a foundational technology within the platform operating model. It provides a flexible, cloud-native environment that supports continuous integration and delivery, enabling healthcare organizations to deploy AI and data solutions effectively and efficiently.

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AI embedded in a Platform Operating Model Changes the Game

The healthcare environment is increasingly complex, necessitating simultaneous solutions to multiple challenges. This approach enhances patient care and operational efficiency while addressing regulatory compliance.

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