ORACLE

Oracle and Research: Accelerate Time to Discovery

Research drives the global expansion of knowledge and spurs scientific, technological and social innovation. With Oracle Cloud, researchers can ask new questions, create and utilize more data, and find answers faster and more cost effectively than ever. Oracle is the ideal research partner.

ORACLE'S COMMITMENT TO ACADEMIC RESEARCH

Advances in the cloud deployment of high-performance computing and analytics solutions – along with innovative technologies such as big data, Internet of Things, and artificial intelligence – have radically changed what is possible in data-driven research. In addition to providing critical technology solutions and applications to thousands of research and educational organizations worldwide, Oracle collaborates with academic research institutions through a number of key programs.

- **Oracle for Research** invests in accelerating data-driven discovery across disciplines. For both established and emerging researchers and innovators, Oracle for Research offers a collaborative community of practice, Oracle Cloud credits, and technical advising and mentorship.

- **Oracle Labs** seeks to identify, explore and transfer new technologies with the potential to substantially improve Oracle's business, taking on projects in exploratory and directed research, consulting and product incubation.

- The **External Research Office** (ERO) invests in research collaborations between university researchers and Oracle staff that support Oracle's long-term strategic goals, and can result in new technology and product ideas, patents and publications, faculty sabbaticals, and student internships.

- **Oracle Academy** is Oracle's global program in education philanthropy, advancing computing education by offering a complete portfolio of education resources for teaching and not-for-profit, degree-related, academic research to millions of students worldwide.

Oracle also collaborates with many industry organizations, including Internet2, GÉANT, EDUCAUSE, HEUG, IMS Global, PESC, and ACM

"In our latest study we combine synthetic biology and cloud computing, two incredibly powerful techniques, to create a new chikungunya vaccine candidate."

**Dr. Imre Berger,
Professor of Biochemistry and Director, Max Planck Centre for Minimal Biology,
University of Bristol**

"What Cloud Computing does is allow us to dynamically create resources to fit the exact problem we're trying to solve."

**Dr. Matt Williams,
Research Software Engineer,
University of Bristol**

ORACLE'S ACADEMIC RESEARCH SOLUTIONS

Oracle offers researchers a comprehensive set of solutions to collect, manage, analyze, and collaborate using data; bringing new levels of performance and scale to:

- Ingest structured and unstructured data securely, enabling researchers to gain new insights by combining and expanding data sets in novel ways.

- Implement governance to better manage data quality and secure access to sensitive data like protected health information and intellectual property.

- Accelerate discovery with big data environments inclusive of high-performance compute, data visualization, machine learning, and analytics.

- Collaborate efficiently with funders through streamlined communication and data sharing, enhancing opportunities to pursue grants and private funding.
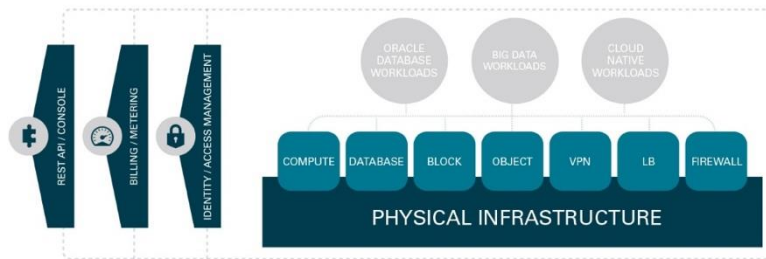

Figure 1: Oracle Cloud Platform offers isolated network virtualization, enabling research organizations to provision elastic, self-service, pay-as-you-go physical servers, and to run bare metal servers side-by-side with any class of system—from virtual machines (VMs) to engineered systems.

DATA AT THE CORE

Data is a key enabler of research and is arguably its most important non-human asset. A scalable infrastructure that enables the management, use and analysis of all data – including data that is otherwise hard to use, analyze, structure, or manage due to scale – is critical. Optimizing availability, flexibility, and secure access to all data is paramount to accelerating research and discovery across all disciplines.

UNLOCK THE POSSIBILITES

Oracle technologies, resources and programs have the potential to transform your research. We invite you to explore collaborations with Oracle today.

KEY COMPONENTS

High Performance Cloud Infrastructure

On-demand high performance cloud infrastructure, suitable for any workload, based on the most advanced compute, storage, networking, and software technologies.

Big Data

Data management platform that absorbs and delivers data of any size and shape for any type of application.

Machine Learning

Enables research informed by more diverse data through systems that learn, classify data, and improve performance based on the data they consume.

Internet of Things (IoT)

Reliable and scalable platform to integrate and analyze research data from connected sensors, instruments and devices.

Security

Core-to-edge security to ensure the level of compliance, data protection and control for your valuable research data.

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