workbench

A trusted research environment for governing and analyzing biomedical data

Verily Workbench combines collaborative research features, advanced analytics tools and a cloud-transparent infrastructure to accelerate and elevate data analytics and governance enterprise-wide. It empowers researchers with maximum analytical power and flexibility while providing institutions with uncompromising safety and compliance.

Maximum flexibility

Workbench delivers flexible cloud resource management to enterprises through its cloud transparent architecture, allowing organizations to focus on scientific research rather than provisioning and managing infrastructure. The platform supports all users - from those who prefer low-code interfaces to advanced analysts. Its adaptability extends to tooling, enabling a bring-your-own-tools capability or the ability to use built-in toolsets.

Example built-in tools

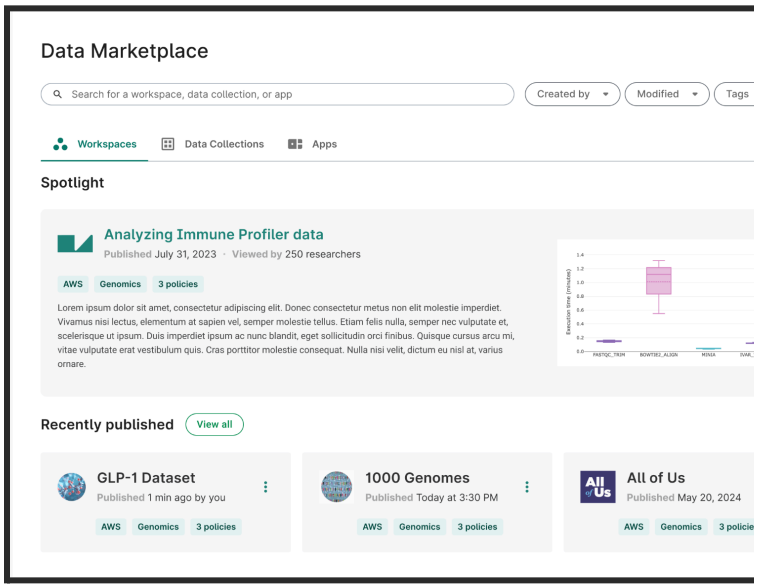
- R Analysis
- Python
- Jupyter Notebooks (JupyterLab)
- Spark
- Visual Studio Code

Example enterprise integrations

- GitHub
- Google Cloud
- Amazon Web Services
- Single Sign-on (SSO)

A central hub

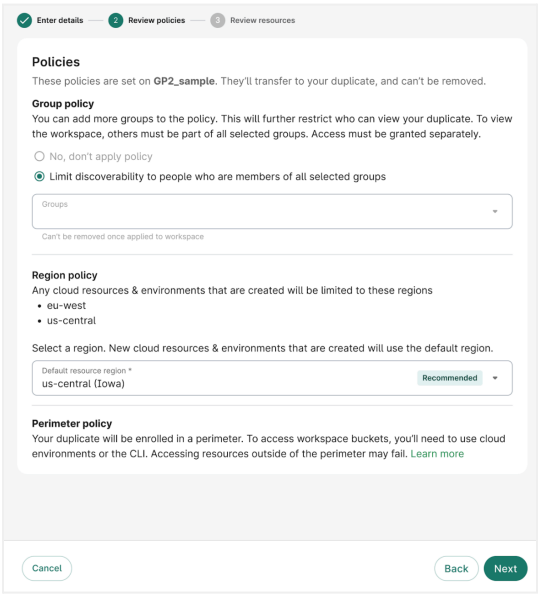
Workbench provides a central hub for data discovery and management, allowing researchers to manage internal datasets and third-party data they have access to within a single, unified interface. This centralized view eliminates the need to navigate disparate data silos, offering a streamlined discovery experience where users can explore multimodal data and assess its relevance to their research.



Built on DNAnexus by verily

Secure and compliant collaboration

Workbench enables secure and compliant collaboration through reproducible workspaces that bring together all necessary project components - data, code, tools, and collaborators. A unique governance engine provides a rapid, configuration-based approach that requires no coding to manage dataset policies. Version control and sharing features support validation across teams, partners, and IRBs.



Protect your enterprise needs

- Ability to support HIPAA and GDPR compliance
- ISO27001
- SOC2
- NIST SP 800-171
- FAIR Principles

AI factory and enterprise scale

Workbench is built for enterprise scale, leveraging public cloud infrastructure from providers like Google Cloud or AWS that offer petabytes of storage and access to hundreds of thousands of CPUs and GPUs, reducing barriers for AI/ML development. It provides an expanding set of tools and frameworks for the entire model lifecycle, from training and validation to deployment.

Spotlight: Purpose-built for biomedical research

Workbench enables complex research activities by providing researchers with a suite of native tools for data visualization, cohorting, and advanced analysis, alongside capabilities for AI/ML model development and end-to-end workflow management.

- **Biomarker development:** Harmonize multiomics data with clinical data to enable discovery and validation of novel biomarkers
- **AI development:** Build benchmarks and closed-loop AI systems to evaluate the quality of your AI agents for patient engagement
- **Longitudinal cohort analysis for population and precision health:** Execute complex queries across multimodal data to analyze trends in outcomes, adherence, social risk factors and disparities
- **Trial feasibility:** Enable rapid creation of eligibility cohorts for trials based on structured queries across pathology, clinical, and molecular datasets

NIH All of Us RESEARCH PROGRAM

With over 19,000 researchers using our platform resulting in over 700 publications, Workbench is purpose-built for biomedical research

Learn more about Workbench at verily.com/workbench

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