Ascenty
A Digital Realty and Brookfield Infrastructure JV

DIGITAL REALTY

DRIL
DIGITAL REALTY INNOVATION LAB



Accelerating AI Innovation and Hybrid Cloud Readiness on PlatformDIGITAL®

The **Digital Realty Innovation Lab (DRIL)** is a state-of-the-art, production-grade colocation environment on PlatformDIGITAL® where customers test, validate, and optimize next-generation infrastructure before scaling to production. Built to accelerate AI, HPC, and hybrid cloud innovation, the DRIL reduces risk from complex, multi-vendor architectures by validating power, cooling, density, performance, and interoperability under real-world conditions. Confidently scale complex architectures with unified facility-to-stack expertise delivered within a secure, interconnected, high-density colocation environment..

Today's technology landscape presents unprecedented challenges:

- **Complex Integration Requirements:** State-of-the-art hardware, existing workloads, and emerging cloud capabilities require high assurance of interoperability
- **Multi-Cloud Complexity:** Hybrid and multi-cloud solutions involve intricate architectures that demand thorough testing
- **Pre-Deployment Validation:** Enterprises need to verify performance metrics before committing to full-scale implementations
- **Industry Trends:** As Gartner notes, "Hybrid, multi-cloud, and edge environments are growing and setting the stage for new distributed cloud models"[1]

Companies face obstacles when implementing advanced infrastructure solutions:

- **Limited Testing Capabilities:** Most organizations lack the facilities to effectively test and validate physical and virtual solutions that multi-tenant data centers offer
- **Distributed Performance Evaluation:** Enterprises need access to distributed deployments with connections to a broad technology ecosystem to properly evaluate performance
- **Multi-Cloud Expertise Gap:** Many customers have limited experience deploying and optimizing multi-cloud solutions
- **AI Deployment Confidence:** Organizations lack access to trusted AI testing environments with direct cloud on-ramps, power-dense environments, and interconnection-rich networks

[1]Gartner Press Release, "Gartner Says Four Trends Are Shaping the Future of Public Cloud", Aug 2, 2021.

Digital Realty Innovation Lab

The DRIL provides a comprehensive, AI-optimized environment for innovation and validation.

Core Capabilities

High Performance Infrastructure: State-of-the-art colocation facilities supporting up to 150 kW per rack for customer testing, including AI-ready deployments

Dedicated Support: Engineering expertise to assist with PoCs, AI benchmarking, and a hybrid-cloud solution development

Flexible Scalability: Options ranging from a single cabinet deployment up to multi-cabinet configurations, supporting both standard and High-Density (HD) colocation

Seamless Connectivity: ServiceFabric® delivers software-defined networking, connecting customers to major CSPs, NSPs, and AI service providers — simplifying data exchange and accelerating time to insight

Premier Technology Ecosystem

Showcasing the latest in mission-critical infrastructure from Digital Realty and numerous supporting partners. The DRIL features fully integrated environments purpose-built for AI, hybrid cloud, and high-density workloads.

Customers gain hands-on access to explore, test drive, validate, and optimize cutting-edge solutions under real-world conditions. On display are advanced liquid cooling technologies, multi-cloud interconnection architectures, and AI-optimized compute, all deployed in a live colocation environment.

Learn more

sales@digitalrealty.com
www.digitalrealty.com/DRIL

Engagement Options

Supporting multiple engagement models to meet diverse customer needs:

Proof of Concept Evaluations: Test and validate solutions before full deployment

Hybrid Cloud Configurations: Design and optimize multi-cloud architectures with embedded ServiceFabric® connectivity

AI Solution Testing: Benchmark performance and power consumption for compute-intensive AI training and inference workloads

Partner Solution Demonstrations: Experience integrated partner technologies firsthand in a live, AI-ready colocation environment

Locations

The **Northern Virginia**, **Tokyo** and **London** Digital Realty Innovation Labs are now open, giving customers a dedicated place to test, validate, and optimize AI, hybrid cloud, and colocation solutions before deployment.

The Digital Realty Innovation Lab offers the flexibility to support development and testing for hybrid and AI-driven cloud environments of any scale.

To schedule a DRIL engagement or tour, contact your Digital Realty account executive or visit:

About Digital Realty

Digital Realty brings companies and data together by delivering the full spectrum of data center, colocation, and interconnection solutions. PlatformDIGITAL®, the company's global data center platform, provides customers with a secure data meeting place and a proven Pervasive Datacenter Architecture (PDx®) solution methodology for powering innovation, from cloud and digital transformation to emerging technologies like artificial intelligence (AI), and efficiently managing Data Gravity challenges. Digital Realty gives its customers access to the connected data communities that matter to them with a global data center footprint of 300+ facilities in 55+ metros across 25+ countries on six continents.

To learn more about Digital Realty, please visit **digitalrealty.com** or follow us on **LinkedIn** and **X**.

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