DOMINO

Domino and AWS: Moving Data Science to the Cloud

Together, Domino and AWS let you develop and deliver models faster, scale rapidly, and reduce regulatory and operational risk.
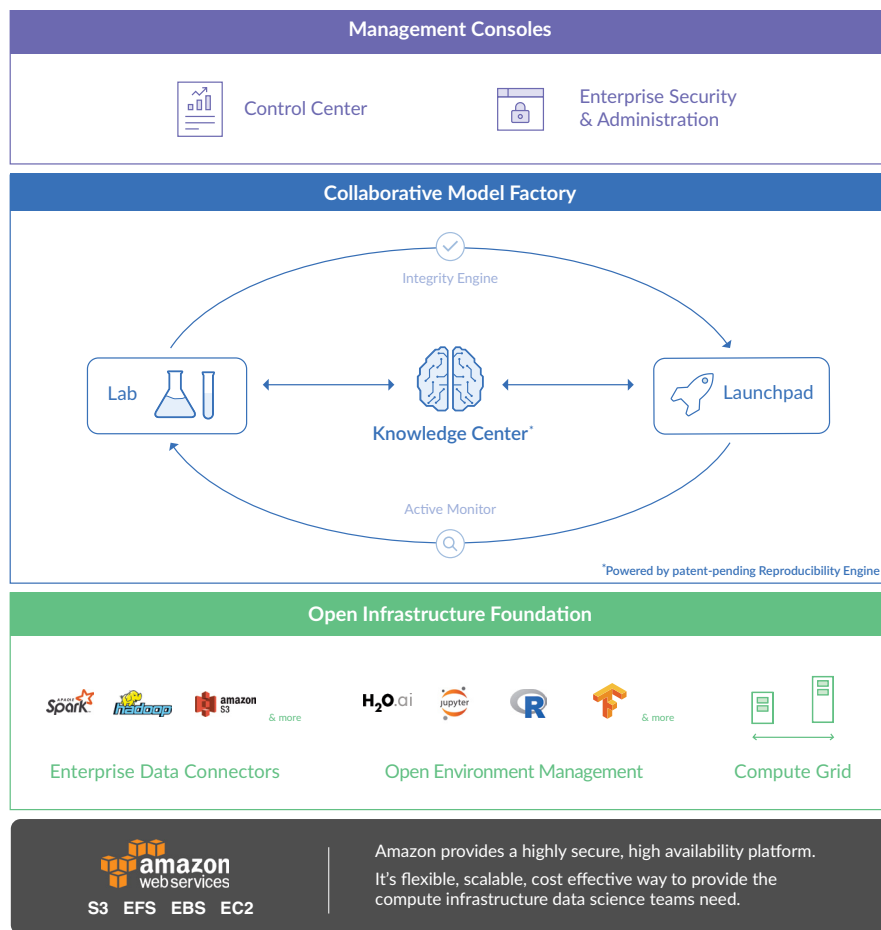
What is Domino?

Domino provides a central system of record that keeps track of all data science activity across an organization. Domino helps data scientists seamlessly orchestrate AWS hardware and software toolkits, increase flexibility and innovation, and maintain required IT controls and standards. Organizations can automatically keep track of all data, tools, experiments, results, discussion, and models; dramatically scale data science investments; and influence decision-making across divisions.

Why Domino on AWS?

Data science workflows are ideally suited for the cloud because they benefit from burst compute and specialized resources like GPUs. Domino offers a centralized platform that helps IT manage the ever-increasing number of data science tools, assets, and infrastructure required to make data science a core competency. Together, Domino on AWS provides a powerful data science platform for accelerating innovation while optimizing efficiencies, scalability, and security.

The Domino Data Science Platform on AWS

Management Consoles

Control Center

Enterprise Security & Administration

Collaborative Model Factory

Integrity Engine

Lab ⟷ Knowledge Center* ⟷ Launchpad

Active Monitor

*Powered by patent-pending Reproducibility Engine

Open Infrastructure Foundation

Spark   hadoop   amazon S3   & more   H₂O.ai   jupyter   R   & more

Enterprise Data Connectors   Open Environment Management   Compute Grid

amazon web services
S3 EFS EBS EC2

Amazon provides a highly secure, high availability platform.
It's flexible, scalable, cost effective way to provide the compute infrastructure data science teams need.

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Start real collaboration

Distributed teams get a central hub where they can share work and build on ideas. Other stakeholders get visibility into the status of projects.

Accelerate research

Gain easy access to AWS EC2 machines, including GPUs and powerful servers. Run experiments faster and test more ideas to generate better models in less time.

Instant access to any tool

Domino's open approach lets you choose from all the great open source or proprietary tools in quantitative research. Easily try new packages without breaking others' workspaces or production models.

Govern entire model portfolio

Manage access on a project-by-project basis. Version and centrally store all critical assets, end traditionally siloed data science workflows, and move work off the desktop.

Reduce ModelOps friction

Models can go into production as apps or REST APIs without a costly, time consuming DevOps process, and be supported by AWS high-availability infrastructure.

Optimize resources and costs

Administrators get granular visibility into who is using resources and how they are used. Set resource limits, kill run-away jobs, and attribute costs back to users or teams.

Customer Success with AWS and Domino

Financial Services

Moody's Analytics uses Domino and AWS to customize its financial model offerings to satisfy specific clients' needs, while accelerating the end-to-end custom model development and delivery process by more than 2x, and increasing its model monitoring capability by 4x.

Asset Management

Coatue's quant team uses Domino and AWS to run 10x more experiments on alternative datasets to speed time to market for their best trading strategies.

Insurance

Allstate uses Domino and AWS to accelerate research and deliver reproducible models to help its 17,000 adjusters resolve claims faster while ensuring regulatory compliance with fully traceable model provenance.

Life Sciences

Bayer (Monsanto) uses Domino and AWS to accelerate their genetic simulations and collaborate on models for optimizing crop yields and improving farmers' financial returns.

A Better User Experience with Domino and AWS

For Data Scientists

- Simple, scalable compute and storage
- Freedom to choose the tools they need

For IT/DevOps

- Fast, low-cost deployment of production models
- Central management of tools and resources

For Managers

- Transparency into projects and deliverables
- Faster onboarding and cycles for better work products

For Audit/Compliance

- Centralized, permanent record of work
- Digital provenance of all models

About Domino

Domino Data Lab provides an open data science platform to help companies run their business on models. Model-driven companies like Allstate, Instacart, Dell, and Bayer use Domino to accelerate breakthrough research, increase collaboration, and rapidly deliver high-impact models. Founded in 2013 and based in San Francisco, Domino is backed by Sequoia Capital, Coatue, Bloomberg Beta, and Zetta Venture Partners. To learn more, visit dominodatalab.com.

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