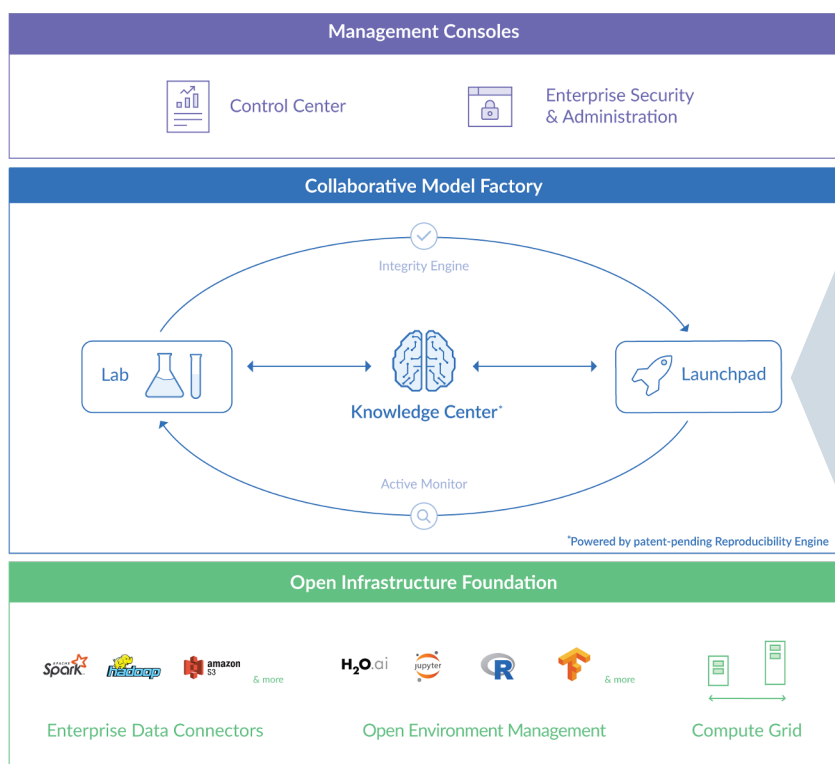DOMINO

Eliminate ModelOps Bottlenecks

Domino Launchpad addresses the operational challenges companies face getting models into production (i.e., ModelOps) to maximize the business impact of their data science investments. As a key component of Domino's data science platform, Launchpad helps teams rapidly deliver and iterate on models they develop in Domino Lab. The full lifecycle is powered by the Open Infrastructure Foundation, which provides the necessary hardware via Domino Compute Grid and required software via Environment Management. The Reproducibility Engine automatically preserves the production model's full lineage, while Domino Control Center tracks key resource usage information.

The Domino Data Science Platform

- Infrastructure automation and security
- Model product catalog for consumers
- Usage data and automated versioning

Launchpad addresses the three biggest ModelOps problems data science organizations face:

1. **Improper technology for model delivery -** Teams have no access to runtime infrastructure, must navigate uncertain security practices, and face inconsistencies across their dev/prod environments.

2. **Limited end-user engagement -** Stakeholders cannot collaborate with data scientists, find available models or fit models into their workflows.

3. **Risk without continuous iteration -** Teams "set it and forget it" even when they know a model's performance has drifted.
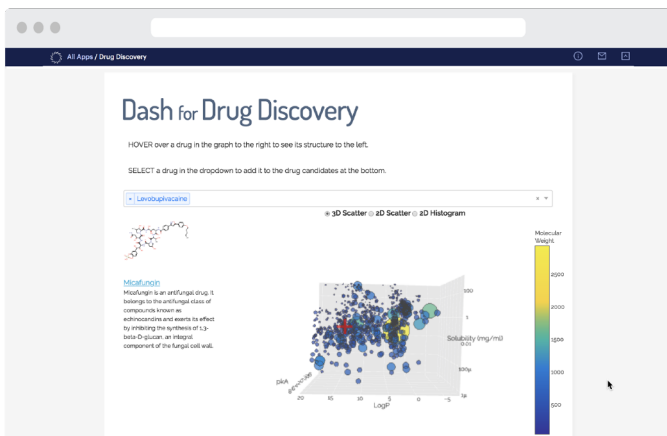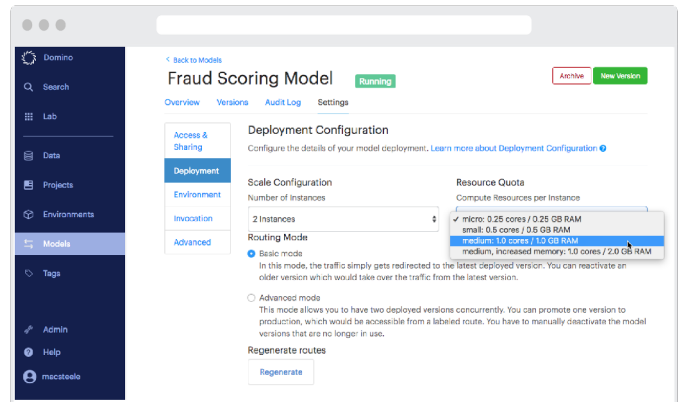
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Domino Launchpad Features and Benefits

Eliminate technology hurdles to model delivery

- **Infrastructure Automation -** Launchpad can configure everything about the hardware that runs models, allowing control and fine-tuning of cost/performance balances.

- **Enterprise Security and Permissioning -** Each model delivered to consumers has its own permission scheme, ensuring critical IP is protected.

- **Consistent Dev/Prod Environments -** All relevant dependencies (drivers, packages/libraries, etc.) are encapsulated automatically in Docker containers to eliminate risk of inconsistent versions.

Delight stakeholders with powerful, interactive model products

- **Model product catalog -** Stakeholders can browse all the delivered apps, understand context, launch interactive apps, and collaborate with data scientists.

- **Multi-modal delivery support -** Data science teams can create scheduled reports, customized web forms (Launchers), web apps (Shiny, Flask, Dash), batch model APIs, and real-time model APIs, ensuring each model fits seamlessly into existing systems and workflows.

Accelerate iteration velocity

- **Model product usage tracking -** Domino automatically captures usage data for model products, providing transparency into business impact and encouraging collaboration between stakeholders and data science teams.

- **Automatic versioning of model products -** Each iteration of a report, app, or API is versioned, minimizing risk to delivery and allowing easy roll-back.

- **Model lineage traceback -** Domino's Reproducibility Engine captures the changes to all dependencies in a model (data, code, environment, etc.), ensuring future collaborators or auditors can understand how a production model was developed.

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