



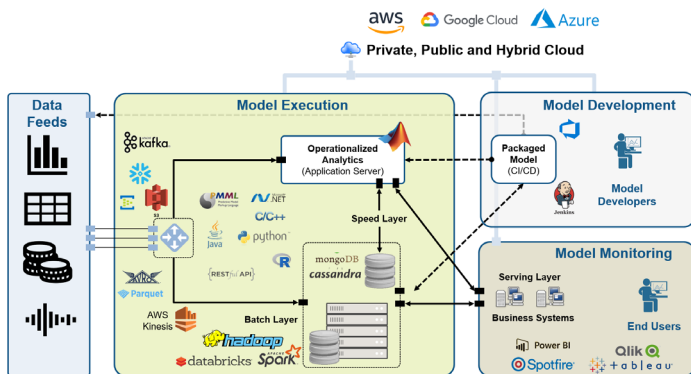
The MathWorks Model Execution Environment

The MathWorks Model Execution Environment is a secure, controlled environment for hosting production models, providing the ability to seamlessly scale in number of users, simulations, and amount of data. It supports multiple languages (including Python®, R, C++, C#, SAS, and MATLAB®) and open integration with enterprise systems via API.

Deployment

The MathWorks Model Execution Environment deploys models to a secure, scalable environment for execution with all appropriate controls and safeguards:

- Ensures that models are only deployable by authorized personnel, with audited approval
- Manages model migration through test, UAT and production and supports deployment of multiple versions of the same model at the same time
- Manages model dependencies in a highly transparent manner
- Supports agile deployment of models without translation or the need to bring down the service or platform
- Integrates with your enterprise continuous integration and deployment platforms



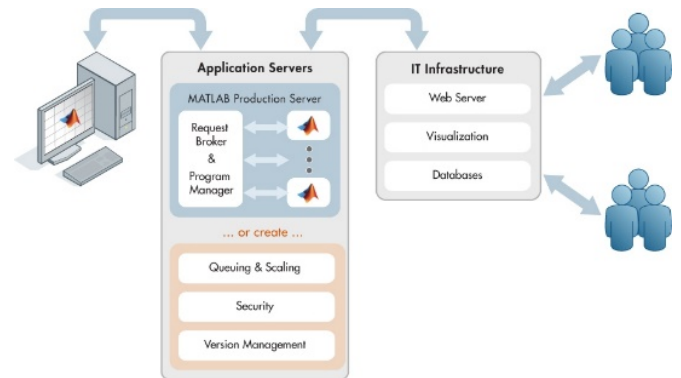
Support for multiple languages and platforms.

Reliability

Unreliable execution environments reduce customer satisfaction, frustrate business users, and consume expensive IT resources. The environment provides reliability features such as:

- Fail elegantly: report errors back to clients in a way that's helpful to users (both human and machine)
- Log diagnostics so that errors can be easily and reliably reproduced
- Ensure services are independent so that a failure of one does not impact the whole platform
- Support containerization in the enterprise micro-services architecture

Scalability



The integrated **parallel server** technology enables dynamic provision of resources across in-house, cloud, and hybrid infrastructures, regardless of underlying modeling language, helping keep your production system running during a surge in usage.

Security

- Integrates with your enterprise authentication service (e.g. Active Directory) with fine-grained permissions
- Provides a full audit of model runs by requestor IP, credentials, parameters, data used, results, and performance metrics

Monitoring

Ongoing and timely visibility of model performance and behavior is key to provide model owners, model validation, and IT a high level of confidence that models are performing as expected. With the MathWorks Model Monitoring Environment you can:

- Generate timely alerts into enterprise application performance management solutions
- Create application-specific business metric dashboards and impact analysis for management
- Monitor for data-drift (the stability of data-inputs compared with the model's training dataset)
- Monitor trends in business overrides for model degradation

» [Learn more about the MathWorks Model Execution Environment](#)