IBM DOC Optimization Server

powered by DecisionBrain™

Built to Ease Optimization Development and Deployment

DOC Optimization Server is a framework designed by OR developers for OR developers. It is intended to enable both Model and Application Developers to focus on their competencies while delegating infrastructure and architecture-related issues.

Key Features and Benefits

Monitor Real-time Executions

Execute Jobs Locally or on the Cloud

Deploy Locally or on the Cloud

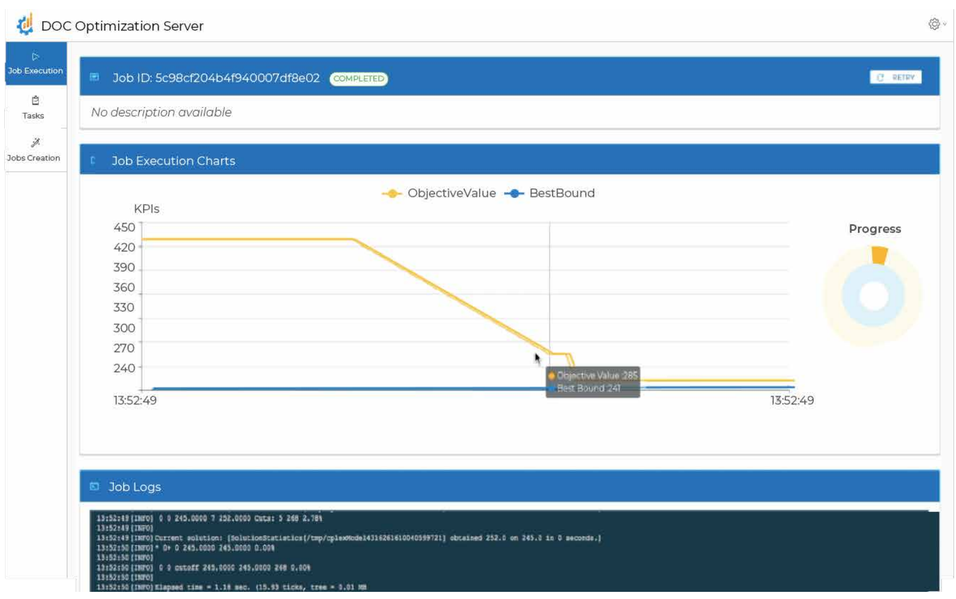
Embedded CPLEX Solver

Easy to Integrate

Easy to Extend & Customize

Monitor Real-time Executions

DOC OS orchestrates multiple CPU intensive jobs and provides an interactive web console to monitor and manage them: easily *retrieve information of past runs and replay the execution in a click*.



Deploy Locally or on the Cloud

Thanks to its light footprint DOC OS supports both local (Docker) and industrial (Kubernetes/OpenShift) deployments: *easily deploy on your laptop, your servers or any cloud (IBM, AWS, Azure, etc.)*

LIGHT DEPLOYMENT — compose, docker

- Quick and simple
- Template available

INDUSTRIAL DEPLOYMENT — RED HAT OPENSHIFT, kubernetes

- Failover
- Easy scalability
- Easy automation
- Resource monitoring

Share CPUs and Licenses

DOC OS can run any intensive computational jobs, locally or on the cloud: *share your CPUs and licenses across multiple users and applications*.

Embedded CPLEX Solver

DOC OS includes Cplex Optimizer for both Mixed Integer Programming (MIP) and Constraint Programming (CP): *confidently turn data insights into business action leveraging best-in-class optimization solvers*.

Learn more about DOC Optimization Server:
https://decisionbrain.com/doc-os/

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Easy to Integrate

To simplify the integration with existing applications, DOC OS provides REST APIs and connectors for a wide range of programming languages.

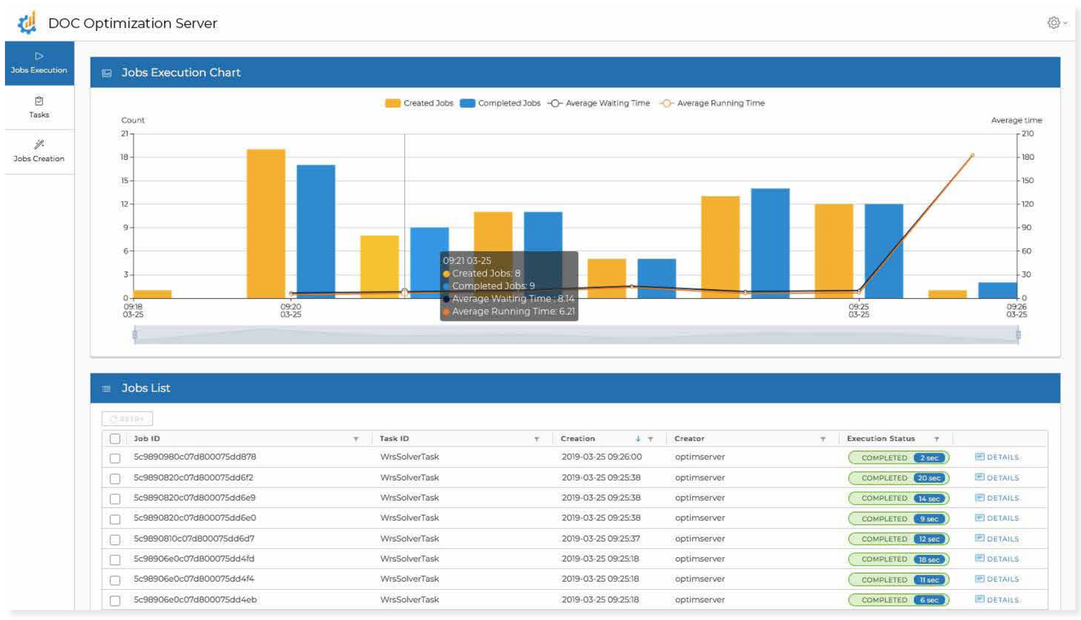
Easy to Extend & Customize

DOC OS supports full extensibility and customization, providing libraries and templates to quickly embed any type of data processing (Python, Java, etc).

Easy Transition to the DOC platform

DOC OS allows a smooth transition to the DOC platform. Transform your model into a full-blown decision-support application for business users, thanks to:

- Data management and what-if analysis capabilities
- Modern and intuitive configurable Web UI
- Configurable user access roles



Use Cases

Operational Research and Data Experts

Focus on modeling competencies, rather than on IT complexities thanks to:

- Cloud-run to share licenses and CPUs
- Local-run with a minimal memory footprint
- Monitoring and reply execution capabilities
- Predefined support for CPLEX and OPL

IT and Deployment Teams

Rely on modern technologies to quickly deliver robust solutions:

- Modular architecture, fully customizable and highly scalable
- Deployment on standard environments (OKD, Kubernetes)
- Failover capabilities
- Monitoring and reply execution capabilities

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