

Daniel Alejandro Coll Tejeda Universitat Rovira i Virgili

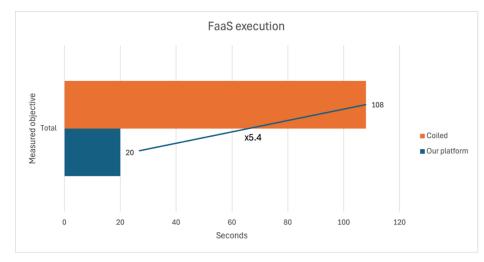
What is PyRun?

- PyRun: Your Easy Button for Python in the Cloud
- Democratizes scalable cloud computing.
 - **Unified Web Environment:** VS Code-like IDE for code, files, terminal.
 - Automated Runtime Management: Define dependencies (environment.yml / Dockerfile), PyRun builds & deploys.
 - **Seamless Framework Integration:** Managed support for Lithops (FaaS) and Dask.
 - Real-Time Monitoring: Deep insights into jobs (CPU, memory, tasks).
 - Runs on Your AWS Account: Full control & transparency.

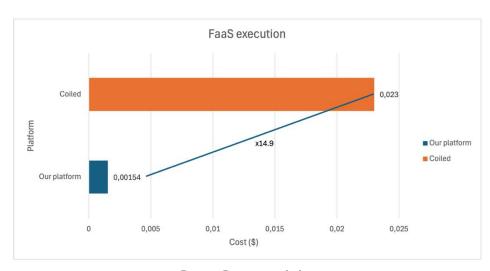


Serverless Supercharged: Lithops with PyRun

- Effortless FaaS: Configure Lithops via PyRun UI no manual JSON:
- Significant Performance & Cost Gains:
 - Up to 14.9x Cheaper
 - Up to 5.4x Faster
 - Benchmark: Kerchunk GOES



Speed Comparision



Cost Comparision

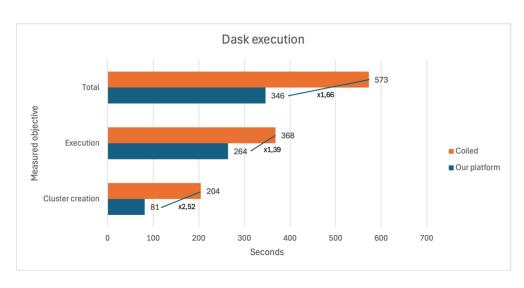
Beyond FaaS: Dask & AI/ML Versatility

Simplified Dask Scaling:

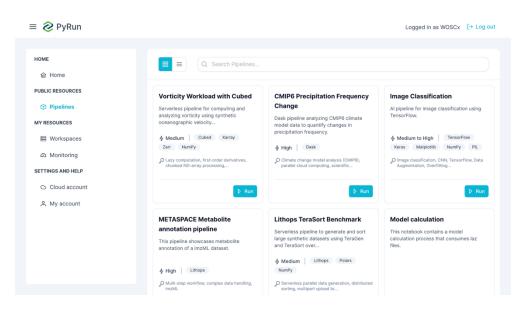
- Faster cluster creation (e.g., IPCC Plots: **up to 2.5x faster**).
- Run Dask on EC2/Fargate, configured in your code.
- Ready-to-Run Pipelines: Explore complex examples (Geospatial, Climate, Metabolomics).

Streamlined AI/ML:

- Audio/Image Recognition, Distributed Dask-ML, LLM w/ Ollama.
- Manage complex AI environments easily.



Dask execution comparision



PyRun Pipeline section

Try PyRun!

- Get Started: pyrun.cloud
- Documentation: docs.pyrun.cloud
- Key Takeaways:
 - Faster Time-to-Results
 - Reduced Cloud Complexity & Cost
 - Integrated & Versatile
- Join the Community: discord.gg/utvgFgUqcR
- Email: danielalejandro.coll@urv.cat



