

Machine Learning 1.4.0

## Machine Learning Runtimes Release Notes

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## ML Runtimes What's New

Major features and updates for ML Runtimes.

This release is available with ML Runtimes version 2022.04.



**Note:** New ML Runtime releases are automatically added to the deployment, if internet connection is available.

Version 2022.04

New features

- **Powered By Jupyter (PBJ) Workbench (Preview)** - The Powered By Jupyter (PBJ) Workbench features the classic workbench UI backed by the open-source Jupyter protocol pre-packaged in an ML Runtime image. Users can easily choose this Runtime when launching a session. The open-source Jupyter infrastructure eliminates the dependency on proprietary CML code when building a Docker image, allowing runtime images to be built with open standards. The first PBJ Workbench Runtimes are available as Tech Preview.
- The Global Registry for npm is set to <https://registry.npmjs.org/> in all of our runtimes. With this change, customers can use npm install in their Dockerfiles, when they build custom runtimes on top of ours.



**Note:** RAPIDS Runtimes are now an optional extension of the Cloudera ML Runtime distribution. The RAPIDS images will no longer be distributed automatically. Administrators can Register them in the Runtime Catalog.

Fixed issues

- DSE-2064 Upgrade of Python Kernels across of all ML Runtimes:
  - Python 3.7.12 -> 3.7.13
  - Python 3.8.12 -> 3.8.13
  - Python 3.9.7 -> Python 3.9.11

ML Runtime Releases included in CML PVC versions

- Runtime Release 2021.12 is included in CML PVC 1.4.0, 1.4.1

### Related Information

[ML Runtimes Nvidia GPU Edition](#)

[ML Runtimes 2021.02](#)

[Upgrading R and Python Packages](#)

[ML Runtimes Environment Variables](#)