

Integrating HPC, Cloud, and Containers for Data-Intensive Computing Platforms

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Argonne provides a broad portfolio of computing resources to researchers. Since 2011 we have been providing a cloud computing resource to researchers, primarily using Openstack. Over the last year we've been working to better support containers in the context of HPC. Several of our operating environments now leverage a combination of the three technologies which provides infrastructure tailored to the needs of the specific workload. This paper summarizes our experiences integrating HPC, Cloud, and Container environments.

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