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Virtualizing A Large Cluster at Brookhaven

Tuesday, May 22, 2012 1:30 PM (4h 45m)

In this presentation we will address the development of a prototype virtualized worker node cluster, using Scientific Linux 6.x as a base
OS, KVM for virtualization, and the Condor batch software to manage virtual machines. The discussion provides details on our experiences
with building, configuring, and deploying the various components from bare metal, including the base OS, the virtualized OS images and the
integration of batch services with the virtual machines.

We also discuss benefits and drawbacks of widespread deployment of virtualized clusters in support of private clouds in a distributed
computing environment. We show that under certain computing models the visualization of worker nodes is of limited value.

Summary

Worker node virtualization using Condor as a VM manager.

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