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# OSiRIS: One Year Update

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The OSiRIS (Open Storage Research Infrastructure) project started in September 2015, funded under the NSF CC\*DNI DIBBs program (NSF grant #1541335). This program seeks solutions to the challenges many scientific disciplines are facing with the rapidly increasing size, variety and complexity of data they must work with. As the data grows, scientists are challenged to manage, share and analyze that data and become diverted from a focus on their scientific research to data-access and data-management concerns. Even more problematic is determining how to support many scientists sharing and accessing this ever increasing amount of data across multiple institutions.

We will describe the progress made during the OSiRIS project's first year. OSiRIS has fully deployed and benchmarked its initial multi-institutional Ceph deployment. To do this involved developing, deploying and configuring a number of tools to support consistent provisioning, monitoring and management of the distributed OSiRIS infrastructure. We will cover those details and discuss our initial science engagements and near-term plans for our hardware, Ceph, Authentication/Authorization and Software Defined Networking as well as the longer term plans for this 5-year project.

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