

Improving the Manageability of OSCAR

Open Source Cluster Application Resources (OSCAR) is a toolkit, developed by the Open Cluster Group, for the installation and configuration of a cluster. Once an installation of OSCAR is completed, several testing scripts are executed. The purpose of the testing scripts is to ensure that the cluster was installed properly. In the current version of OSCAR, there are several testing issues that need to be addressed. The first issue is to isolate the testing framework from the batch system. The removal of these dependencies will improve the manageability of the testing framework. Improving error reporting is another issue that will be undertaken. Currently, there is no system that reports why a test script failed. Increasing the granularity of the testing suite to provide more thorough testing is the last issue to be resolved. In correcting these issues the APITest tool will be used as the framework for the testing scripts. The testing scripts will be broken up into more manageable, independent modules. Then, the APITest tool will manage how and when the tests are run. This work will benefit government agencies, private companies, universities, and individuals wishing to install a cluster.

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