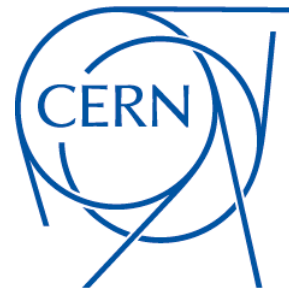


A Roadmap to Continuous Integration for ATLAS Software Development

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- ❖ Current ATLAS software infrastructure is package-oriented
 - SVN code repository
 - Tag Collector web-interfaced tool for version management
 - 70 branches of nightly releases composed of various package sets and versions defined in the Tag Collector on daily fixed schedule
- ❖ ATLAS software infrastructure is adopting Continuous Integration (CI) practices
 - Git code repository with CI workflow support
 - Jenkins CI automation server for nightly jobs
 - RPM-based deployment scheme relying on the CernVM-FS file system
 - Open source tools for testing and monitoring, such as CTest and CDash
- ❖ Goals of ATLAS software infrastructure development:
 - Build nightly releases early and often, with rigorous unit and integration testing
 - Rationalize hardware resource use
 - Reduce human effort for infrastructure support