



# A Roadmap to Continuous Integration for ATLAS Software Development

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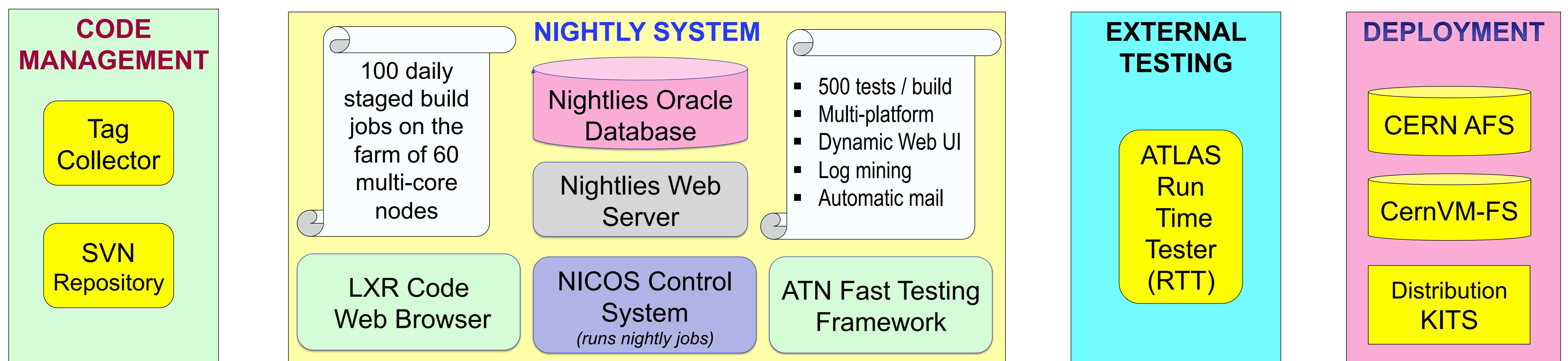
## The ATLAS Software

- 2200 packages with 4 million C++ and 1.4 million python lines
- 1000 developers
- Multi-Stream development (70 branches of nightly releases)
- Infrastructure with web-interfaced tools for code storage (SVN), version management (Tag Collector), nightly building and testing (NICOS, ATN, RTT)

## The ATLAS Software Infrastructure Evolution

- Adoption of continuous integration (CI) practices
- Building nightly releases early and often
- Rationalize hardware resource allocation
- Rigorous unit and integration testing
- Use open source tools such as Jenkins, Git, CTest

## Current ATLAS Software Infrastructure



## Path to Continuous Integration

