Abstract

Build in software is assembling all the components of a software application into an installable software product. Build automation is a process that enables source code to be automatically compiled into binaries including code level unit testing to ensure individual pieces of code behave as expected. There are lot of build tools available in market. A better understanding of these tools helps in taking choice among all available application and tools. The paper gives the comprehensive and theoretical analysis of seven open source build and one licensed build tools. The study describes the technical specification, features, and specialization for each selected tool along with its applications. By employing the study the choice and selection of tools can be made easy.

References

1. Java Build Tools: Ant vs Maven vs Gradle
   https://technologyconversations.com/2014/06/18/build-tools/
3. What is the process to be followed to upgrade to the latest versions of IBM UrbanCode Deploy servers? http://www-01.ibm.com/support/docview.wss?uid=swg21695100
5. Java Build Tools Comparisons: Ant vs Maven vs Gradle https://programmingmitra.blogspot.in/2016/05/java-build-tools-comparisons-ant-vs.html

**Index Terms**

Computer Science  Programming Languages

**Keywords**

DevOps, build tools, build management and automation