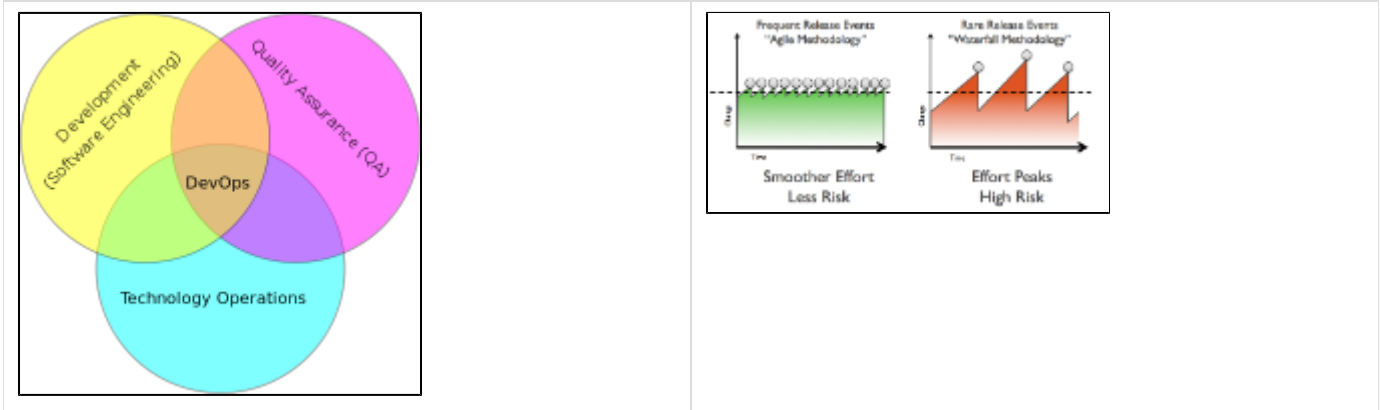


Development Operations



DevOps

1. More than just software deployments
2. Set of processes and methods for improving communication and collaboration between departments
3. Improved relationships and collaboration
 - a. Increased efficiency
 - b. Reduce risk associated with frequent changes
4. Driven by:
 - a. Use of agile and other development processes and methodologies
 - b. Demand for an increased rate of production releases from application and business unit stakeholders
 - c. Wide availability of virtualized and cloud infrastructure from internal and external providers
 - d. Increased usage of data center automation and configuration management tools

Kuali Projects

Name	Version	Development Streams
Rice	1.0	https://svn.kuali.org/repos/rice/branches/rice-1.0
Rice	2.0	https://svn.kuali.org/repos/rice/branches/rice-2.0
Rice	2.1	https://svn.kuali.org/repos/rice/branches/rice-2.1 https://svn.kuali.org/repos/rice/branches/rice-2.1-kc
Rice	2.2	https://svn.kuali.org/repos/rice/trunk https://svn.kuali.org/repos/rice/branches/rice-2.2-myplan https://svn.kuali.org/repos/rice/sandbox/rice-2.2-ks-krms

Name	Version	Development Streams
OLE	0.8.0	https://svn.kuali.org/repos/ole/trunk

Name	Version	Development Streams
Student	1.2	https://svn.kuali.org/repos/student/trunk
Student	1.3	https://svn.kuali.org/repos/student/ks-1.3 https://svn.kuali.org/repos/student/ks-1.3-services https://svn.kuali.org/repos/student/ks-1.3-myplan

POM Driven Process

Profile	Description
buildnumber	Numbered, stable, unchanging artifacts based on POM info + CI build number
deploy	On demand publishing of Kuali applications to environments hosted on Amazon EC2
resetenv	On demand creation of named environments capable of hosting Kuali applications on Amazon EC2
kuali-release	Quality control for official Kuali artifacts (GPG signature, attached sources, javadocs etc.)
sonatype-oss-release	Automatic publishing of artifacts to Maven Central
nightlytag	Tag from which each numbered build is produced - http://svn.kuali.org/repos/rice/tags/builds/rice-2.2/
revision	Numbered, stable, unchanging artifacts based on POM info + Subversion revision number
sonar	Automated generation of Sonar reports
scm	Validate that the SCM information in the POM reflects the actual location in Subversion
builds	Optimize the nightly build process for internally released artifacts (turn off GPG, etc)
license	Uniform application of the ECL 2.0 license header text

By The Numbers

1. 28 Maven Plugins
 - a. Original - 14
 - b. Modified - 5
 - c. Rewritten - 9
2. Continuous Integration
 - a. 500+ jobs
 - b. ~35k lines of job related XML metadata
 - c. 11g's in external binaries needed to complete Kuali builds
 - d. Spike to 50+ build slaves within minutes
3. Nexus + S3
 - a. 2g's of traffic every day
 - b. ~2 terabytes in build artifacts
4. Cloudfront
 - a. 11 gb's of traffic per month to the Maven generated technical documentation