**DevOps Methodology**

Offspring of agile

DevOps is a software development methodology that combines software development (Dev)

with information technology operations (Ops)

Goals of DevOps

Improve deployment frequency

Achieve faster time to market

Lower failure rate of new releases

Shorten lead time between fixes

Improve mean time to recovery

According to the 2015 State of DevOps Report:

“high-performing IT organizations deploy 30x more frequently with

200x shorter lead times; they have 60x fewer failures and

recover 168x faster.”

The steps of DevOps

Plan: task management, schedules

Code: code development and code review, source code management tools, code merging

Build: continuous integration tools, version control tools, build status

Test: continuous testing tools that provide feedback on business risks, determine performance

Package: artifact repository, application pre-deployment staging

Release: change management, release approvals, release automation

Operate: infrastructure installation, infrastructure changes (scalability), infrastructure configuration and management,

infrastructure as code tools, capacity planning, capacity & resource management, security check, service deployment,

high availability (HA), data recovery, log/backup management, database management

Monitor: service performance monitoring, log monitoring, end user experience, incident management