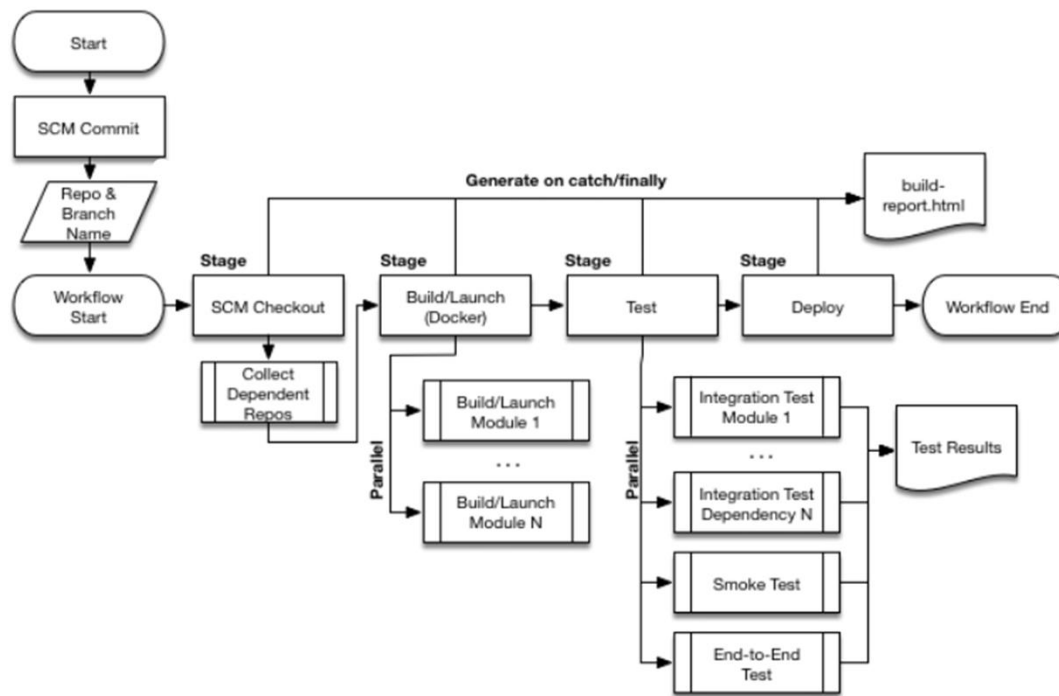# Jenkins 2.0 – Features

Jenkins – 2.0

- New enhancements & features post Jenkins 2.* (post April 2016)
- Noticeable UI changes + Pipeline + Blue Ocean
- pipeline vision : provide a way "to model, orchestrate and visualize [the] entire delivery pipeline."
- Script (Groovy DSL) or use visual tools (plugins) to design your software delivery & deployment process and check it in along with your code

Jenkins – Pipeline

Pipeline Groovy Syntax - jenkinsfile

Jenkinsfile (Declarative Pipeline)

```
pipeline {
    agent any  ①

    stages {
        stage('Build') {  ②
            steps {  ③
                sh 'make'  ④
            }
        }
        stage('Test'){
            steps {
                sh 'make check'
                junit 'reports/**/*.xml'  ⑤
            }
        }
        stage('Deploy') {
            steps {
                sh 'make publish'
            }
        }
    }
}
```

Pipeline Plugins

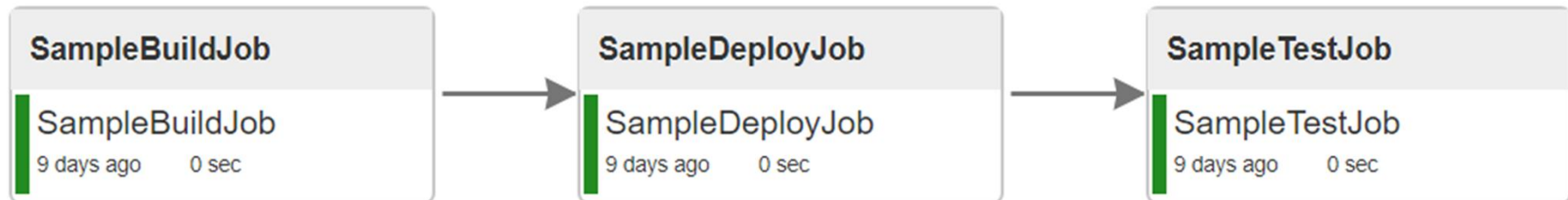○ Install Plugins that can connect upstream + downstream jobs – Build pipeline, Delivery pipeline

All **TestDeliveryPipeline** +

BuildJob

#2 triggered by user Anand started 9 days ago

SampleBuildJob		SampleDeployJob		SampleTestJob
SampleBuildJob	→	SampleDeployJob	→	SampleTestJob
9 days ago 0 sec		9 days ago 0 sec		9 days ago 0 sec

#1 triggered by user Anand started 9 days ago

SampleBuildJob		SampleDeployJob		SampleTestJob
SampleBuildJob	→	SampleDeployJob	→	SampleTestJob
9 days ago 0 sec				