

Занятие 13: Continuous Delivery

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Jenkins

- ▶ Continuous Delivery-система
 - ▶ Похожа на Travis, но более конфигурируема
- ▶ Работает локально
 - ▶ Следовательно, требует настройки и хостинга
 - ▶ Следовательно, может использоваться в корпоративном окружении
- ▶ Имеет кучу плагинов на все случаи жизни
- ▶ Опенсорсный, очень популярен по сей день
 - ▶ Начинался в 2005 в Sun как Hudson

Jenkinsfile

```
pipeline {  
  agent any  
  stages {  
    stage('build') {  
      steps {  
        sh 'mvn --version'  
      }  
    }  
  }  
}
```

Более продвинутые шаги

```
pipeline {  
  agent any  
  stages {  
    stage('Deploy') {  
      steps {  
        retry(3) {  
          sh './flakey-deploy.sh'  
        }  
  
        timeout(time: 3, unit: 'MINUTES') {  
          sh './health-check.sh'  
        }  
      }  
    }  
  }  
}
```

Jenkins и Docker

```
pipeline {  
  agent { docker 'maven:3.5.2-jdk-8-slim' }  
  stages {  
    stage('build') {  
      steps {  
        bat 'mvn --version'  
      }  
    }  
  }  
}
```

Переменные окружения

```
pipeline {  
  agent any  
  
  environment {  
    DB_ENGINE = 'sqlite'  
    AWS_ACCESS_KEY_ID = credentials('AWS_ACCESS_KEY_ID')  
    AWS_SECRET_ACCESS_KEY = credentials('AWS_SECRET_ACCESS_KEY')  
  }  
  
  stages {  
    stage('Build') {  
      steps {  
        sh 'printenv'  
      }  
    }  
  }  
}
```

Слежение за тестами

```
pipeline {  
  agent any  
  stages {  
    stage('Test') {  
      steps {  
        sh './gradlew check'  
      }  
    }  
  }  
  post {  
    always {  
      junit 'build/reports/**/*.xml'  
    }  
  }  
}
```

Деплой, ручное подтверждение

```
pipeline {  
  agent any  
  stages {  
    ...  
    stage('Deploy - Staging') {  
      steps {  
        sh './deploy staging'  
        sh './run-smoke-tests'  
      }  
    }  
    stage('Sanity check') {  
      steps {  
        input "Does the staging environment look ok?"  
      }  
    }  
    stage('Deploy - Production') {  
      steps {  
        sh './deploy production'  
      }  
    }  
  }  
}
```


Jenkins Blue Ocean

The screenshot displays the Jenkins Blue Ocean interface for a pipeline named "creating-a-pipeline-in-blue-ocean 3". The top navigation bar includes tabs for "Pipeline", "Changes", "Tests", and "Artifacts", along with icons for search, edit, settings, and a "Logout" button. Below the navigation bar, the pipeline's current state is shown: "Branch: master" with a checkmark icon, "Commit: f8f31f2", and a duration of "2m 22s". The pipeline's progress is visualized as a horizontal line with five stages: "Start", "Build", "Test", "Deliver", and "End". The "Build" and "Test" stages are marked with green checkmarks, indicating successful completion. The "Deliver" stage is currently active, marked with a blue circle and a play icon. Below the progress bar, the "Steps Deliver" section is visible, showing two steps: a "Shell Script" step (duration 13s) and a "Wait for interactive input" step (duration 1m 27s). The "Wait for interactive input" step is currently active, displaying a message: "Finished using the web site? (Click 'Proceed' to continue)". Below the message are two buttons: "Proceed" and "Abort".

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