



Jenkins² pipeline maven alapú verziózással

Bakai Balázs – www.bakaibalazs.hu

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Jenkins 1

előzmények

Jenkins 1 pipeline

All						
JEDI - Build Pipeline						
Maventest - Build Pipeline						
NLR - Build Pipeline						
NLR - Deploy						
S	W	Name	Last Success	Last Failure	Last Duration	Ap
		JEDI-BrowserTest	19 hr - v2.0.1.16	N/A	1 min 9 sec	
		JEDI-Build	19 hr - v2.0.1.16	N/A	42 sec	
		JEDI-CodeAnalysis	19 hr - v2.0.1.16	N/A	5 min 5 sec	
		JEDI-CodeCoverage	19 hr - v2.0.1.16	N/A	1 min 13 sec	
		JEDI-Deploy	19 hr - v2.0.1.16	N/A	12 sec	
		JEDI-JARAnalysis	19 hr - v2.0.1.16	N/A	1 min 35 sec	
		JEDI-PerformanceTest	19 hr - v2.0.1.16	N/A	27 sec	
		JEDI-StoreArtifact	19 hr - v2.0.1.16	N/A	23 sec	
		JEDI-UnitTest	19 hr - v2.0.1.16	N/A	18 sec	

Jenkins 1 – A pipeline következő lépésének triggerelése

Post-build Actions

Join Trigger

Projects to build once, after all downstream projects have finished

☒ Run post-build actions at join

Post-Join Actions

☒ Trigger parameterized build on other projects

Build Triggers

Projects to build

JEDI-Deploy

❌ No such project 'JEDI-Deploy'. Did you mean 'NLR-Deploy'?

Trigger when build is

Stable

Trigger build without parameters ☒

Add Parameters

Add trigger...

Delete

Trigger parameterized build on other projects

Build Triggers

Projects to build

JEDI-JARAnalysis,JEDI-CodeAnalysis,JEDI-CodeCoverage

❌ No such project 'JEDI-JARAnalysis'. Did you mean 'NLR-JARAnalysis'?

Trigger when build is

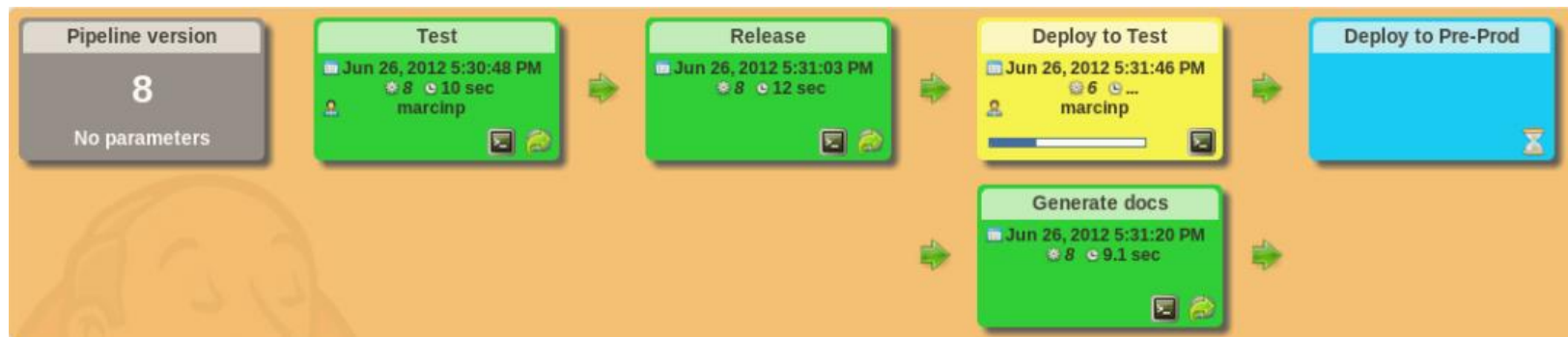
Stable

Trigger build without parameters ☒

Add Parameters

Add trigger...

Jenkins 1 – Build pipeline, Delivery pipeline plugins





Jenkins 2 pipeline

...a gyakorlatban



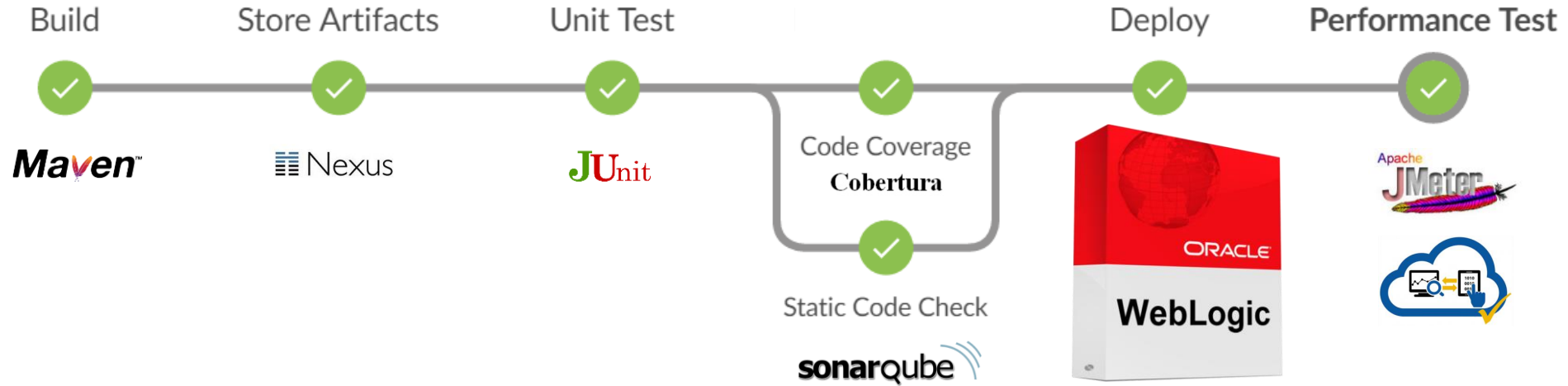
Jenkins 2 pipeline

Jenkinsfile (Declarative Pipeline)

```
pipeline {  
  agent any ❶  
  
  stages {  
    stage('Build') { ❷  
      steps { ❸  
        sh 'make' ❹  
      }  
    }  
    stage('Test'){  
      steps {  
        sh 'make check'  
        junit 'reports/**/*.xml' ❺  
      }  
    }  
    stage('Deploy') {  
      steps {  
        sh 'make publish'  
      }  
    }  
  }  
}
```

- Jenkinsfile
- Snippet Generator
- Tools, behivatkozthatók
- Manual Approval : input 'Are you sure?,'
- Timing: Aborting Build
- Parallel tasks
- Handling Errors: try-catch
- ...

Jenkins 2 pipeline



Verziózás – Maven snapshot



Build History [trend](#)

find

- [0.0.14-SNAPSHOT-3](#)
2016.12.18. 18:32
- [0.0.14-SNAPSHOT-2](#)
2016.12.18. 18:30
- [0.0.14-SNAPSHOT-1](#)
2016.12.17. 15:55
- [0.0.13](#) 2016.12.17. 14:50
- [0.0.13-SNAPSHOT-3](#)
2016.12.17. 14:18
- [0.0.13-SNAPSHOT-2](#)
2016.12.17. 14:05
- [0.0.13-SNAPSHOT-1](#)
2016.12.17. 13:58



bakailab-snapshots hosted **ANALYZE** maven2 Snapshot

bakailab-snapshots

[Browse Index](#) [Browse Storage](#) [Configuration](#) [Routing](#) [Summary](#)

[Refresh](#) Path Lookup:

- bakailab-snapshots
 - hu
 - bakaibalazs
 - demoapp
 - 0.0.13-SNAPSHOT
 - demoapp-0.0.13-20161217.125841-1.pom
 - demoapp-0.0.13-20161217.125841-1.pom.md5
 - demoapp-0.0.13-20161217.125841-1.pom.sha1
 - demoapp-0.0.13-20161217.125841-1.war
 - demoapp-0.0.13-20161217.125841-1.war.md5
 - demoapp-0.0.13-20161217.125841-1.war.sha1
 - demoapp-0.0.13-20161217.130515-2.pom
 - demoapp-0.0.13-20161217.130515-2.pom.md5
 - demoapp-0.0.13-20161217.130515-2.pom.sha1
 - demoapp-0.0.13-20161217.130515-2.war
 - demoapp-0.0.13-20161217.130515-2.war.md5
 - demoapp-0.0.13-20161217.130515-2.war.sha1
 - demoapp-0.0.13-20161217.131818-3.pom
 - demoapp-0.0.13-20161217.131818-3.pom.md5
 - demoapp-0.0.13-20161217.131818-3.pom.sha1
 - demoapp-0.0.13-20161217.131818-3.war
 - demoapp-0.0.13-20161217.131818-3.war.md5
 - demoapp-0.0.13-20161217.131818-3.war.sha1
 - maven-metadata.xml
 - maven-metadata.xml.md5
 - maven-metadata.xml.sha1

Verziózás – Maven release



Jenkins

Build History [trend](#)

find

- [0.0.14-SNAPSHOT-3](#)
2016.12.18. 18:32
- [0.0.14-SNAPSHOT-2](#)
2016.12.18. 18:30
- [0.0.14-SNAPSHOT-1](#)
2016.12.17. 15:55
- [0.0.13](#) **2016.12.17. 14:50**
- [0.0.13-SNAPSHOT-3](#)
2016.12.17. 14:18
- [0.0.13-SNAPSHOT-2](#)
2016.12.17. 14:05
- [0.0.13-SNAPSHOT-1](#)
2016.12.17. 13:58

Nexus

bakailab-releases hosted [ANALYZE](#)

[bakailab-releases](#)

[Browse Index](#) [Browse Storage](#) [Configuration](#) [Routes](#)

[Refresh](#) Path Lookup:

- [bakailab-releases](#)
 - [hu](#)
 - [bakaibalazs](#)
 - [demoapp](#)
 - [0.0.13](#)
 - [demoapp-0.0.13-javadoc.jar](#)
 - [demoapp-0.0.13-javadoc.jar.md5](#)
 - [demoapp-0.0.13-javadoc.jar.sha1](#)
 - [demoapp-0.0.13-sources.jar](#)
 - [demoapp-0.0.13-sources.jar.md5](#)
 - [demoapp-0.0.13-sources.jar.sha1](#)
 - [demoapp-0.0.13.pom](#)
 - [demoapp-0.0.13.pom.md5](#)
 - [demoapp-0.0.13.pom.sha1](#)
 - [demoapp-0.0.13.war](#)
 - [demoapp-0.0.13.war.md5](#)
 - [demoapp-0.0.13.war.sha1](#)
 - [maven-metadata.xml](#)
 - [maven-metadata.xml.md5](#)
 - [maven-metadata.xml.sha1](#)

[archetype-catalog.xml](#)

SUBVERSION®

repo - Revision 131:

/demoapp/tags

- [demoapp-0.0.1/](#)
- [demoapp-0.0.10/](#)
- [demoapp-0.0.11/](#)
- [demoapp-0.0.12/](#)
- [demoapp-0.0.13/](#)

A pipeline indítása

The screenshot shows the Jenkins web interface for a pipeline named 'DemoApp'. The left sidebar contains navigation links: 'Back to Dashboard', 'Status', 'Changes', 'Build with Parameters' (highlighted with a yellow box), 'Delete Pipeline', 'Configure', 'Move', and 'Full Stage View'. The main content area is titled 'Pipeline DemoApp' and states 'This build requires parameters:'. Two parameters are listed: 'DISTRIBUTION_TYPE' and 'NEXT_DEVELOPMENT_VERSION'. The 'DISTRIBUTION_TYPE' parameter has a dropdown menu currently set to 'SNAPSHOT'. A blue callout bubble points to this dropdown with the text 'Snapshot vagy release'. Below the parameters, there is a 'Build' button. A second blue callout bubble points to the 'NEXT_DEVELOPMENT_VERSION' parameter field with the text 'Release esetén mi legyen a következő snapshot verzió'. Below the field, there is a small text note: 'This parameter is only used when you choose RELEASE' followed by some partially visible text about version increments and the '1.2.3-SNAPSHOT' format.

Jenkins Open Blue Ocean

Jenkins ▶ DemoApp ▶

- Back to Dashboard
- Status
- Changes
- Build with Parameters**
- Delete Pipeline
- Configure
- Move
- Full Stage View

Pipeline DemoApp

This build requires parameters:

DISTRIBUTION_TYPE

NEXT_DEVELOPMENT_VERSION

Build

Snapshot vagy release

Release esetén mi legyen a következő snapshot verzió

This parameter is only used when you choose RELEASE
blank increment
value snapshot version (in 1.2.3-SNAPSHOT format)

Pipeline eredmény oldal

The screenshot shows the Jenkins web interface for a specific build. The top navigation bar includes the Jenkins logo, the project name 'DemoApp', and the build ID '0.0.13-SNAPSHOT-3'. A sidebar on the left contains links to various build details like 'Back to Project', 'Status', 'Changes', 'Console Output', etc. The main content area displays the build title 'Build 0.0.13-SNAPSHOT-3 (2016.12.17. 14:18:04)' and lists build artifacts, including a file '0.0.13-SNAPSHOT-3.dts' with a size of 195.09 KB. It also shows the user 'Jenkins Admin' started the build and a list of run times. At the bottom, there are links for 'Test Result' and 'Cobertura Report'. Three blue callout boxes with arrows point to specific elements: 'Kód lefedettségri riport' points to the 'Cobertura Report' link, 'Mentett APM mérés' points to the '0.0.13-SNAPSHOT-3.dts' artifact, and 'Unit teszt eredmények' points to the 'Test Result' link.

Jenkins [Open Blue Ocean](#)

Jenkins > DemoApp > **0.0.13-SNAPSHOT-3**

[Back to Project](#)
[Status](#)
[Changes](#)
[Console Output](#)
[Edit Build Information](#)
[Delete Build](#)
[Parameters](#)
[Test Result](#)
[Cobertura Report](#)
[Replay](#)
[Pipeline Step](#)
[Previous Build](#)
[Next Build](#)

Build 0.0.13-SNAPSHOT-3 (2016.12.17. 14:18:04)

[Build Artifacts](#)

[0.0.13-SNAPSHOT-3.dts](#) 195.09 KB [view](#)

Started by user [Jenkins Admin](#)

This run spent:

- 54 ms waiting in the queue;
- 55 sec building on an executor;
- 55 sec total from scheduled to completion.

[Test Result](#) (no failures)

[Cobertura Report](#)

Kód lefedettségri riport

Mentett APM mérés

Unit teszt eredmények

Jenkins 2 pipeline előnyei

- Maven release-elése transzparens módon működik e Jenkins-szel
 - Jenkins nélkül is futtatható a release
- A pipeline elkészítése gyorsan megvalósítható, mivel nem kell minden lépéshez egy új job-ot létrehozni
- A Jenkins release eredmény oldalán megtekinthetők a mérési eredmények



<http://www.bakaibalazs.hu/2017/03/jenkins-2-pipeline-maven-alapu.html>



Köszönjük a figyelmet!

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