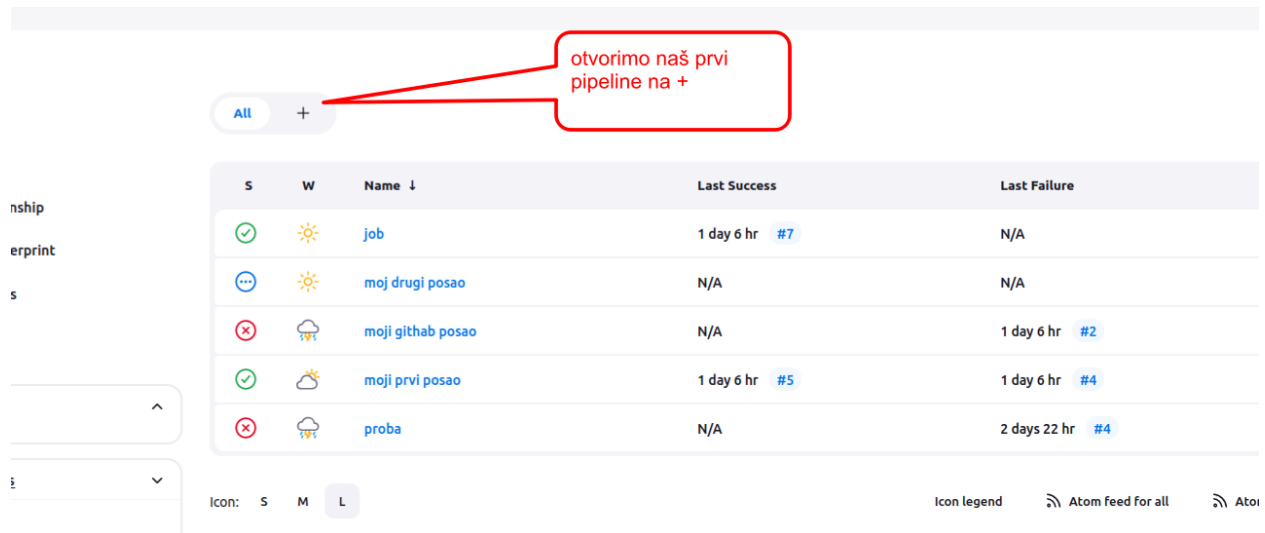


Build pipeline

U pluginu smo potražili i instalirali build pipeline.

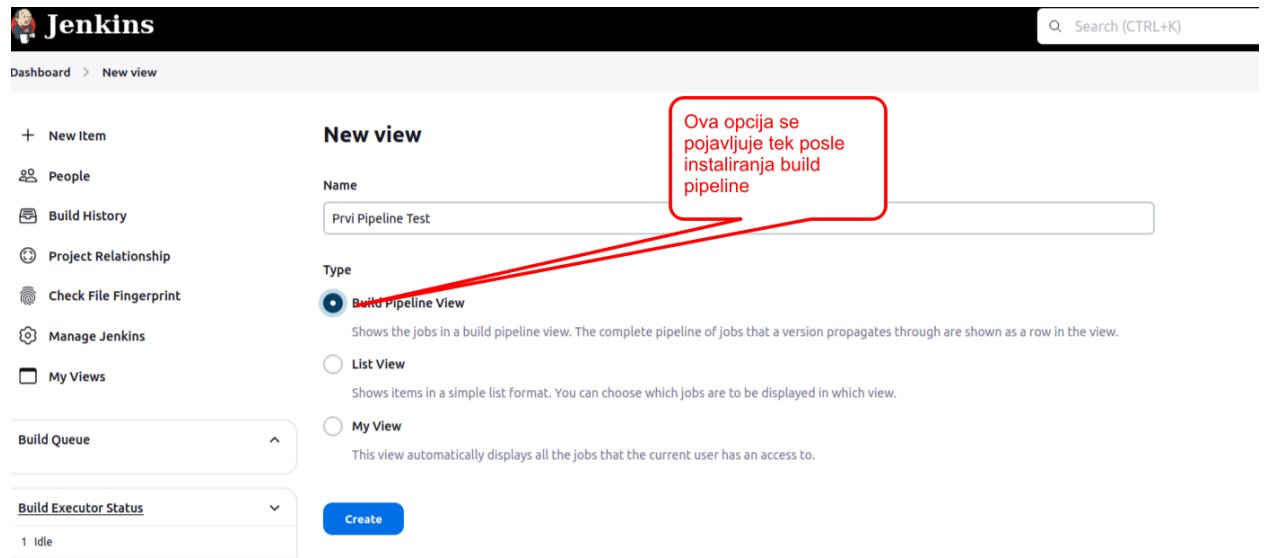
Vratimo se gde su svi naši projekti koje smo odradili.



A screenshot of the Jenkins interface showing a list of pipelines. A red callout box points to a '+' button next to the 'All' filter. The callout contains the text: "otvorimo naš prvi pipeline na +".

S	W	Name ↓	Last Success	Last Failure
✓	☀	job	1 day 6 hr #7	N/A
⋮	☀	moj drugi posao	N/A	N/A
✗	☁	moji github posao	N/A	1 day 6 hr #2
✓	☀	moji prvi posao	1 day 6 hr #5	1 day 6 hr #4
✗	☁	proba	N/A	2 days 22 hr #4

Ono što smo dobili je



A screenshot of the Jenkins 'New view' configuration page. A red callout box points to the 'Build Pipeline View' radio button. The callout contains the text: "Ova opcija se pojavljuje tek posle instaliranja build pipeline".

Jenkins Search (CTRL+K)

Dashboard > New view

+ New Item

- People
- Build History
- Project Relationship
- Check File Fingerprint
- Manage Jenkins
- My Views

Build Queue

Build Executor Status

1 Idle

New view

Name: Prvi Pipeline Test

Type:

- Build Pipeline View**
Shows the jobs in a build pipeline view. The complete pipeline of jobs that a version propagates through are shown as a row in the view.
- List View
Shows items in a simple list format. You can choose which jobs are to be displayed in which view.
- My View
This view automatically displays all the jobs that the current user has an access to.

Create

^

▼

▼

▼

Pipeline Flow

Layout

Based on upstream/downstream relationship ▼

This layout mode derives the pipeline structure based on the upstream/downstream relationship between jobs. This is the only out-of-the-box supported layout mode, but is open for extension.

Upstream / downstream config

Select Initial Job ?

job ▼

- job
- job -> Simple calculator
- moj drugi posao
- moji github posao
- moji prvi posao
- proba

Standard build card ▼

Use the default build cards

Restrict triggers to most recent successful builds ?

Yes

No

OK Apply

Postavite koji posao je inicijalan



Prvi napravljeni pipeline

11 >

ovo čekiramo

Enter an item name

» Required field



Freestyle project

Classic, general-purpose job type that checks out from up to one SCM, executes build steps serially, followed by post-build archiving artifacts and sending email notifications.



Maven project

Build a maven project. Jenkins takes advantage of your POM files and drastically reduces the configuration.



Pipeline

Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.



Multi-configuration project

Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform specific builds, etc.



Folder

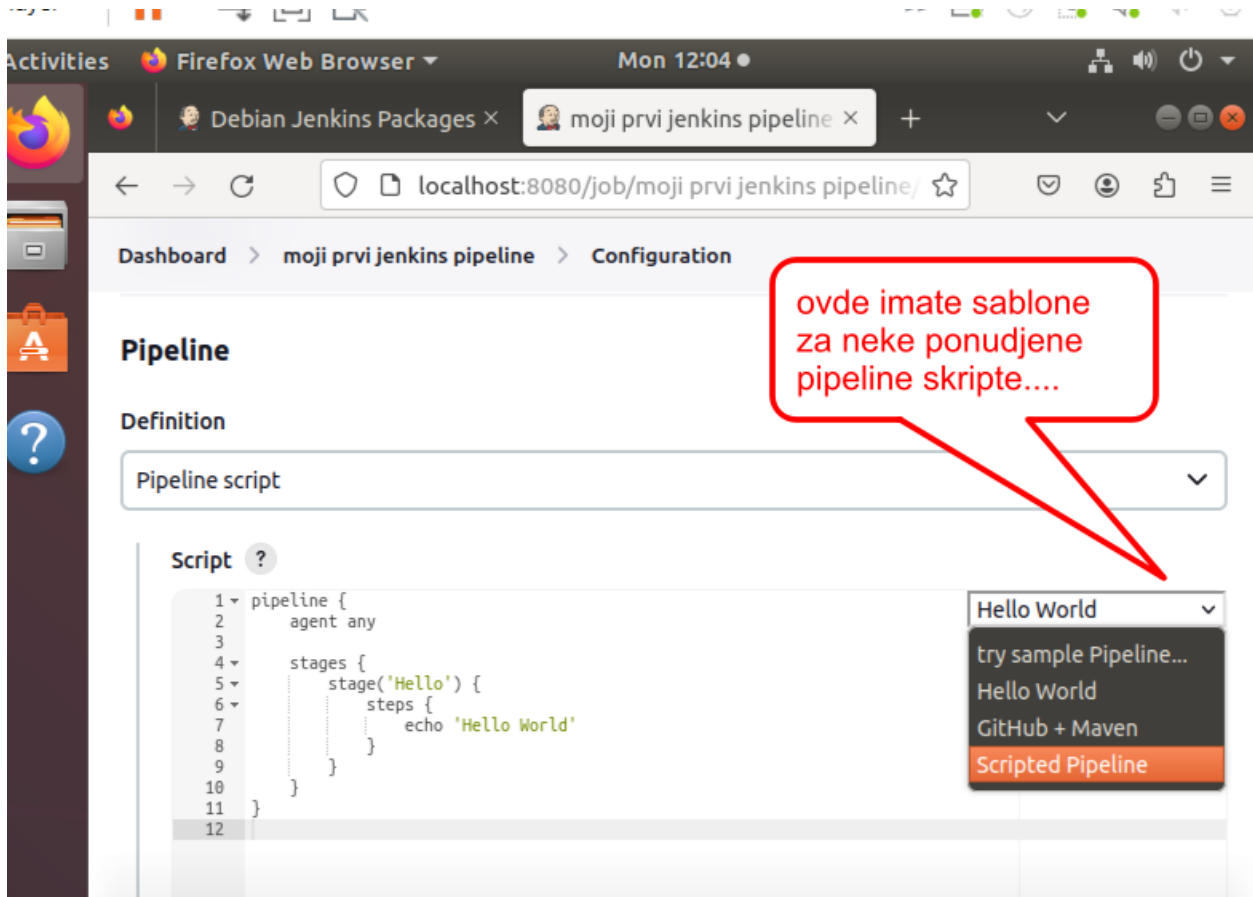
Creates a container that stores nested items in it. Useful for grouping things together. Unlike view, which is just a filter, a folder creates a separate namespace, so you can have multiple things of the same name as long as they are in different folders.



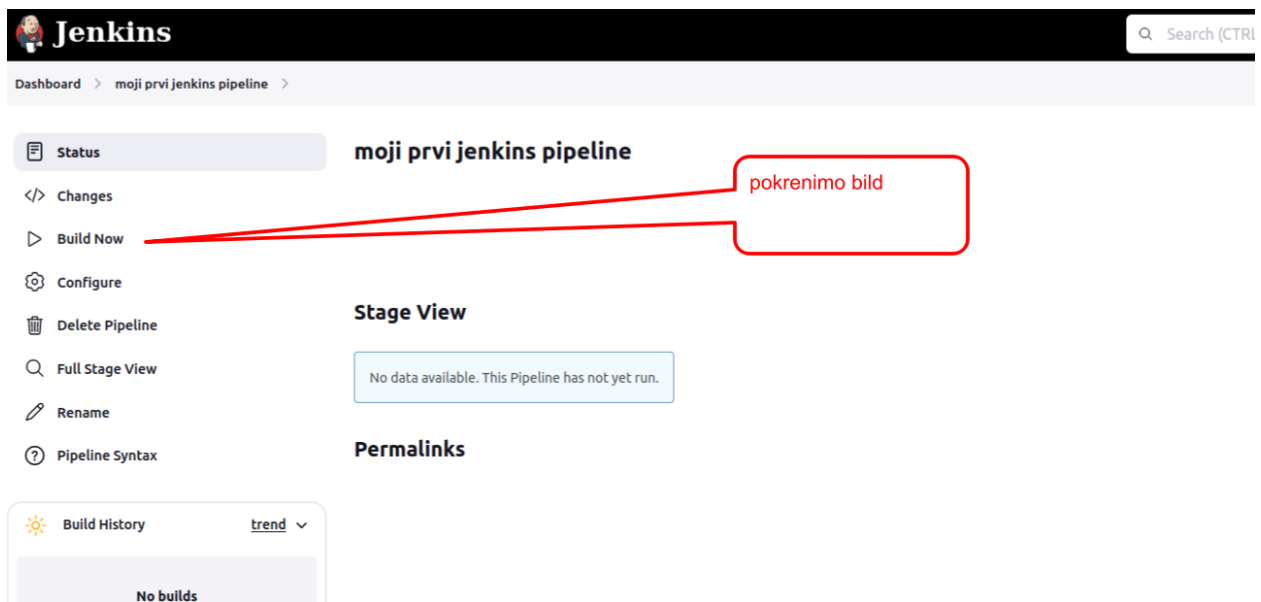
Multibranch Pipeline

Creates a set of Pipeline projects according to detected branches in one SCM repository.

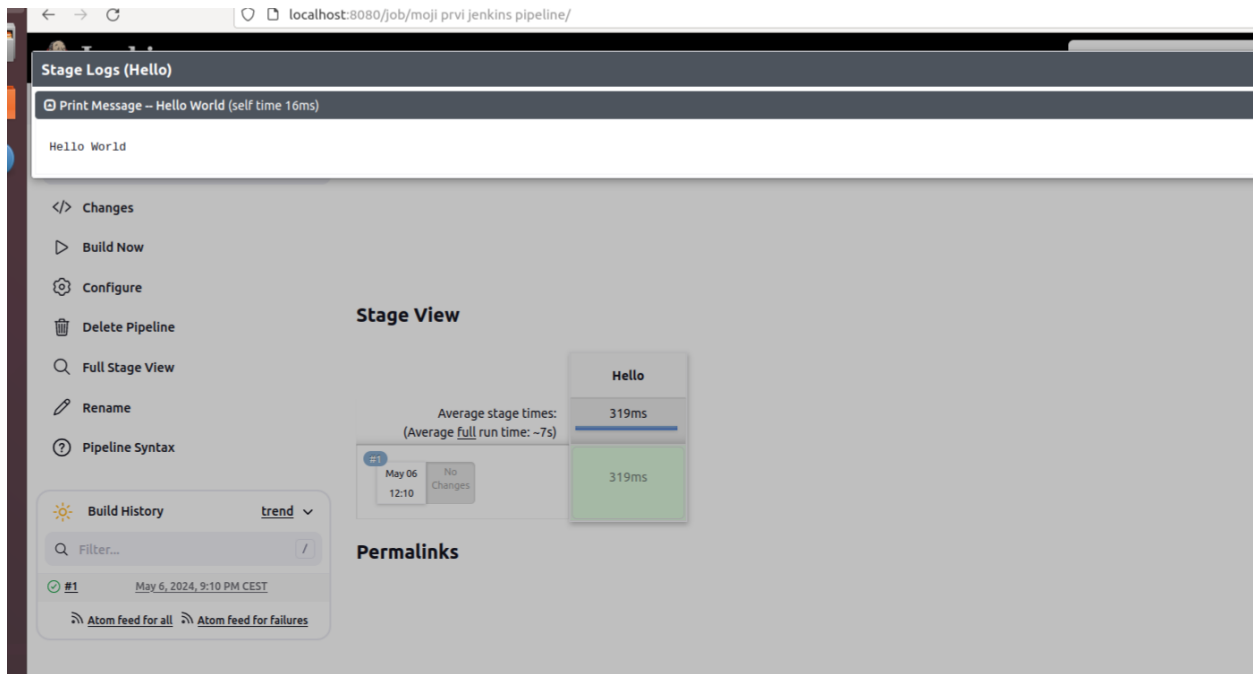
OK



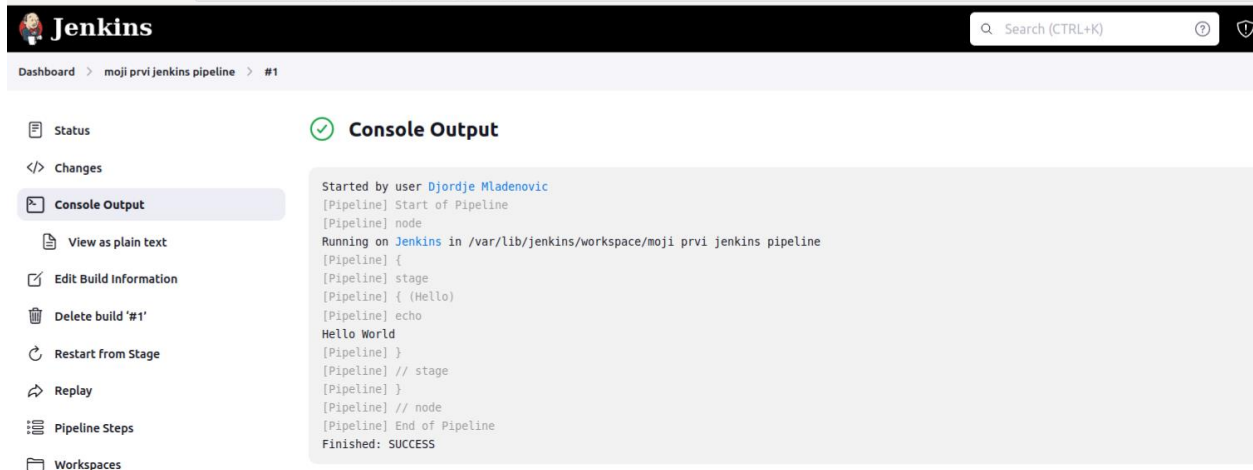
Mi smo izabrali klasiku.... hello world i



I evo sta smo dobili



Hajmo sada na **Configure** i promenimo malo nas kod koji smo napisali.



Promeniću sada kod i nazvaću ga okruženje

Takođe odlazim na stranu da pogledam neke varijable, promenjive za to naše okruženje.



Kao što vidite imamo veliki izbor

A screenshot of the Jenkins web interface. The browser's address bar shows 'localhost:8080/env-vars.html/'. The Jenkins logo is visible in the top left, and a search bar is in the top right. The main content area is titled 'Dashboard' and contains a list of environment variables available for shell and batch build steps. The variables listed are: BRANCH_NAME, BRANCH_IS_PRIMARY, CHANGE_ID, CHANGE_URL, CHANGE_TITLE, CHANGE_AUTHOR, CHANGE_AUTHOR_DISPLAY_NAME, CHANGE_AUTHOR_EMAIL, CHANGE_TARGET, CHANGE_BRANCH, CHANGE_FORK, TAG_NAME, TAG_TIMESTAMP, TAG_UNIXTIME, and TAG_DATE. Each variable is followed by a brief description of its purpose and when it is set.

I to je ono sto možemo iskoristiti unašoj skripti

Advanced Project Options

Advanced ▾

15

Pipeline

Definition

Pipeline script

Script ?

```
1 pipeline {
2   agent any
3
4   stages {
5     stage('Hello') {
6       steps {
7         echo 'Hello World'
8       }
9     }
10    stage('Okruzenje') {
11      steps {
12        echo env.BUILD_ID
13        echo env.JOB_NAME
14        echo env.JENKINS_HOME
15      }
16    }
17  }
18 }
19 }
```

Ovo smo mi dodali

Use Groovy Sandbox ?

[Pipeline Syntax](#)

Save

Apply

Kao primer smo stavili i Jenkins home, da vidimo gde se on nalazi.

Naravno kliknućeno na Build i da pogledamo sada logs .

Status

Changes

Build Now

Configure

Delete Pipeline

Full Stage View

Rename

Pipeline Syntax

Build History trend

Filter...

#2 May 6, 2024, 9:56 PM CEST

#1 May 6, 2024, 9:10 PM CEST

Atom feed for all Atom feed for failures

moji prvi jenkins pipeline

Stage View

Average stage times:
(Average full run time: ~4s)

	Hello	Okruzenje
Average	232ms	223ms
#2 May 06 12:56 No Changes	146ms	223ms
#1 May 06 12:10 No Changes	319ms	

Permalinks

- Last build (#1), 43 min ago
- Last stable build (#1), 43 min ago
- Last successful build (#1), 43 min ago
- Last completed build (#1), 43 min ago

I to bi izgledalo ovako sa logs

The screenshot shows the Jenkins web interface. At the top, there are browser tabs for 'Debian Jenkins Packages', 'moji prvi jenkins pipeline', and 'Available Environmental'. The address bar shows 'localhost:8080/job/moji prvi jenkins pipeline/'.

Stage Logs (Okruzenje)

- Print Message -- 2 (self time 18ms)
- Print Message -- moji prvi jenkins pipeline (self time 17ms)
- Print Message -- /var/lib/jenkins (self time 10ms)

Below the logs, the path `/var/lib/jenkins` is visible.

Stage View

Average stage times:
(Average full run time: ~4s)

	Hello	Okruzenje
#2 May 06 12:56 No Changes	146ms	223ms
#1 May 06 12:10 No Changes	319ms	

Build History trend

Filter...

- #2 May 6, 2024, 9:56 PM CEST
- #1 May 6, 2024, 9:10 PM CEST

Atom feed for all Atom feed for failures

Permalinks

- Last build (#1), 43 min ago
- Last stable build (#1), 43 min ago
- Last successful build (#1), 43 min ago
- Last completed build (#1), 43 min ago

U priloženom možemo videti adresu gde je Jenkins home, koji je br Bild-a i kako se zove pipeline.

I šta je zanimljivo ako iskopiramo adresu gde se nalazi Jenkins u browser-u dobićemo ovako nešto.

moji prvi jenkins pipeline x Available Environmental x Index of file:///var/lib/jen... x +

file:///var/lib/jenkins

adresa gde se nalazi jenkins

Index of file:///var/lib/jenkins

Up to higher level directory Show hidden objects

Name	Size	Last Modified
.cache		4/29/24 04:56:04 PDT
.config		5/2/24 11:22:40 PDT
.groovy		5/2/24 10:18:11 PDT
.java		4/29/24 04:56:03 PDT
.jenkins		5/2/24 11:22:43 PDT
.lastStarted		5/6/24 08:01:45 PDT
.m2		5/2/24 11:22:49 PDT
.owner	1 KB	5/6/24 12:31:42 PDT
com.cloudbees.hudson.plugins.folder.config.AbstractFolderConfiguration.xml	1 KB	5/6/24 11:52:47 PDT
config.xml	5 KB	5/6/24 11:52:47 PDT
fingerprints		5/2/24 11:23:08 PDT
github-plugin-configuration.xml	1 KB	5/6/24 11:52:47 PDT
hudson.maven.MavenModuleSet.xml	1 KB	5/6/24 11:52:47 PDT
hudson.model.UpdateCenter.xml	1 KB	5/6/24 08:01:38 PDT
hudson.plugins.build_timeout.global.GlobalTimeOutConfiguration.xml	1 KB	5/6/24 11:52:47 PDT
hudson.plugins.build_timeout.operations.BuildStepOperation.xml	1 KB	5/6/24 11:52:47 PDT
hudson.plugins.emailxt.ExtendedEmailPublisher.xml	2 KB	5/6/24 11:52:47 PDT
hudson.plugins.git.GitSCM.xml	1 KB	5/6/24 11:52:47 PDT
hudson.plugins.git.GitTool.xml	1 KB	5/4/24 05:59:02 PDT
hudson.plugins.gradle.Gradle.xml	1 KB	5/4/24 05:59:02 PDT
hudson.plugins.gradle.enriched.EnrichedSummaryConfig.xml	1 KB	5/6/24 11:52:47 PDT
hudson.plugins.gradle.injection.InjectionConfig.xml	1 KB	5/6/24 11:52:47 PDT
hudson.plugins.timestamp.TimestamperConfig.xml	1 KB	5/6/24 11:52:47 PDT
hudson.tasks.Ant.xml	1 KB	5/4/24 05:59:02 PDT
hudson.tasks.Mailer.xml	1 KB	5/6/24 11:52:47 PDT
hudson.tasks.Maven.xml	1 KB	5/4/24 05:59:02 PDT

Ako odemo na kraju možemo pronaći naše projekte koji smo radili

file:///var/lib/jenkins/workspace/

Index of file:///var/lib/jenkins/workspace/

Up to higher level directory

Name	Size	Last Modified
job		5/2/24 11:22:57 PDT
moj drugi posao		5/4/24 05:09:21 PDT
moji github posao		5/4/24 06:13:02 PDT
moji prvi posao		5/4/24 03:04:20 PDT
proba		5/2/24 13:27:41 PDT

Tu su i naši log-ovi šifre i možemo svašta nešto pronaći ako nešto zaboravimo.


Sada hajdemo da parametrizujemo Jenkinsov bild job


Kao primer hoćemo npr. Da parametrizujemo Javu tj. da vidimo koju verziju imamo instaliranu.


Ne ćemo pokrenuti kao pipeline mada je moguće i tako bez problema što se može proveriti kasnije.

Enter an item name

» *Required field*

 **Freestyle project**
Classic, general-purpose job type that checks out from up to one SCM, executes build steps serially, followed by post-build st
archiving artifacts and sending email notifications.

 **Maven project**
Build a maven project. Jenkins takes advantage of your POM files and drastically reduces the configuration.

 **Pipeline**

te

General

ode Management

iggers

ironment

ps

d Actions

Description

- Boolean Parameter
- Choice Parameter
- Credentials Parameter
- File Parameter
- Multi-line String Parameter
- Password Parameter
- Run Parameter
- String Parameter

Add Parameter ^

Throttle builds ?

Execute concurrent builds if necessary ?

Advanced v

Imate razne varijante
za parametrizaciju

Imate razne varijante parametrizacije mi ćemo ovde izabrati Choice parameter.

Nazovite ka kako zelite i stavite u opciji Choice neko poređenje .

Mi ćemo staviti DA i NE...

Description

Plain text [Preview](#)

Discard old builds [?](#)

GitHub project

This project is parameterized [?](#)

☰ **Choice Parameter** [?](#)

Name [?](#)

Pitalica

Choices [?](#)

DA
NE
|

❗ Requires Choices.

Description [?](#)

[Save](#) [Apply](#)

I sada idemo dole i pogledajmo **build steps** (ja sam izabrao shell pošto radil u Linux-u na to obratiti pažnju).

I tu kucamo sledeće

Firefox Web Browser Mon 13:40

Debian Jenkins paramateriz-bild-job Available Environment Variables Index of files

localhost:8080/job/paramateriz-bild-job/configuration

Dashboard > paramateriz-bild-job > Configuration

Execute shell

Command

See [the list of available environment variables](#)

```
if "%Pitalica%" == "DA" (  
  java -version  
)  
if "%Pitalica%" == "NE" (  
  echo " OK to je isto uredu "
```

Advanced

Add build step

Save Apply

Sačuvajmo sada i hajmo da to testiramo idemo na bild i

Jenkins

Dashboard > paramateriz-bild-job >

- Status
- Changes
- Workspace
- Build with Parameters**
- Configure
- Delete Project
- Rename

Project paramateriz-bild-job

This build requires parameters:

Pitalica

Build Cancel

Build History [trend](#) v

No builds

[Atom feed for all](#) [Atom feed for failures](#)

Bildujemo i gledamo da li je to ispravno ili nije

Status

✓ Console Output

</> Changes

Console Output

View as plain text

Edit Build Information

Delete build '#15'

Parameters

← Previous Build

Started by user Djordje Mladenovic

Running as SYSTEM

Building in workspace /var/lib/jenkins/workspace/paramateriz-bild-job

```
[paramateriz-bild-job] $ /var/lib/jenkins/tools/hudson.tasks.Maven_MavenInstallation/Maven/bin/mvn if %Pitalica% == DA ( java -version ) if %Pitalica% == NE ( echo "OK to uredu" )
```

```
/var/lib/jenkins/tools/hudson.tasks.Maven_MavenInstallation/Maven/bin/mvn: 163: [: closing paren expected
```

```
/var/lib/jenkins/tools/hudson.tasks.Maven_MavenInstallation/Maven/bin/mvn: 147: [: -eq: unexpected operator
```

```
/var/lib/jenkins/tools/hudson.tasks.Maven_MavenInstallation/Maven/bin/mvn: 163: [: closing paren expected
```

```
/var/lib/jenkins/tools/hudson.tasks.Maven_MavenInstallation/Maven/bin/mvn: 147: [: -eq: unexpected operator
```

Apache Maven 3.9.6 (bc0240f3c744dd6b6ec2920b3cc0808dccc295161ae)

Maven home: /var/lib/jenkins/tools/hudson.tasks.Maven_MavenInstallation/Maven

Java version: 17.0.7, vendor: Private Build, runtime: /usr/lib/jvm/java-17-openjdk-amd64

Default locale: en_US, platform encoding: UTF-8

OS name: "linux", version: "5.4.0-150-generic", arch: "amd64", family: "unix"

Finished: SUCCESS

i evo pokazao nam
je našu verziju jave
java 17.0.7