

CI/CD Deployment for Springboot Application.

Description

Project Objective:

As a Full Stack Developer, you have to build a CI/CD pipeline to demonstrate continuous deployment and host the application on AWS EC2 instance.

Background of the problem statement:

As the project is in the final stage, management has asked you to automate the integration and deployment of the web application. You are required to set up an environment where the application will be hosted and accessed by users. The source code is supposed to be fetched from a GitHub repository.

You must use the following:

- Eclipse
- GitHub
- Jenkins
- AWS EC2/ Virtual machine

Following requirements should be met:

- A part of the source code should be tracked on the GitHub repository. You need to document the tracked files that are ignored during the final push to the GitHub repository.
- The submission of your GitHub repository link is mandatory. In order to track your task, you need to share the link of the repository in the document.
- The step-by-step process involved in completing this task should be documented.

Developer Details:

Mahendra Kumar Singh

mahendrakumarsingh9893@gmail.com

GitHub link-

<https://github.com/Mahendra1272/CI-CD-Deployment-for-Springboot-Application.git>

Phase 5: CI CD Deployment For web Application

source code

1)class SpringCiCdApplication.java

```
package com.testAuth;
```

```
import org.springframework.boot.SpringApplication;
```

```
import
```

```
org.springframework.boot.autoconfigure.SpringBootApplication;
```

```
import org.springframework.web.bind.annotation.GetMapping;
```

```
import org.springframework.web.bind.annotation.RestController;
```

```
@SpringBootApplication
```

```
@RestController
```

```
public class SpringCiCdApplication {

    @GetMapping("/")

    public String home() {

        return "Welcome To Spring Boot CI-CD deployment";

    }

    public static void main(String[] args) {

        SpringApplication.run(SpringCiCdApplication.class,
args);

    }

}
```

Eclipse

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer x SpringJenkinsApplicati... SpringCiCdApplication.j... dockerfile application.properties Spring_ci-cd/pom.xml

Spring_ci-cd [boot] [devtools]

- src/main/java
 - com.testAuth
 - SpringCiCdApplication.java
- src/main/resources
 - static
 - templates
 - application.properties
- src/test/java
 - com.testAuth
 - SpringCiCdApplicationTests
- JRE System Library [JavaSE-11]
- Maven Dependencies
- target/generated-sources/annotat
- target/generated-test-sources/tes
- src
 - main
 - test
- target
 - generated-sources
 - generated-test-sources
 - maven-archiver

```

1 package com.testAuth;
2
3 import org.springframework.boot.SpringApplication;
4
5
6
7
8
9
10 @SpringBootApplication
11 @RestController
12 public class SpringCiCdApplication {
13
14     @GetMapping("/")
15     public String home() {
16         return "Welcome To Spring Boot CI-CD deployment";
17     }
18
19     public static void main(String[] args) {
20         SpringApplication.run(SpringCiCdApplication.class, args);
21     }
22
23 }
24

```

Boot Dashboard x

Javadoc Declaration Console x Progress Terminal

Spring_ci-cd - SpringCiCdApplication [Spring Boot App] C:\Users\Del\Downloads\sts-4.10.0.RELEASE\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_15.0.2.v20210918

```

2021-09-18 18:43:43.431 INFO 9520 --- [ restartedMain] o.a.c.c.C.[Tomcat].[localhost].[/] : In
2021-09-18 18:43:43.432 INFO 9520 --- [ restartedMain] w.s.c.ServletWebServerApplicationContext : Ro
2021-09-18 18:43:43.819 INFO 9520 --- [ restartedMain] o.s.b.d.a.OptionalLiveReloadServer : Li
2021-09-18 18:43:43.855 INFO 9520 --- [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : T

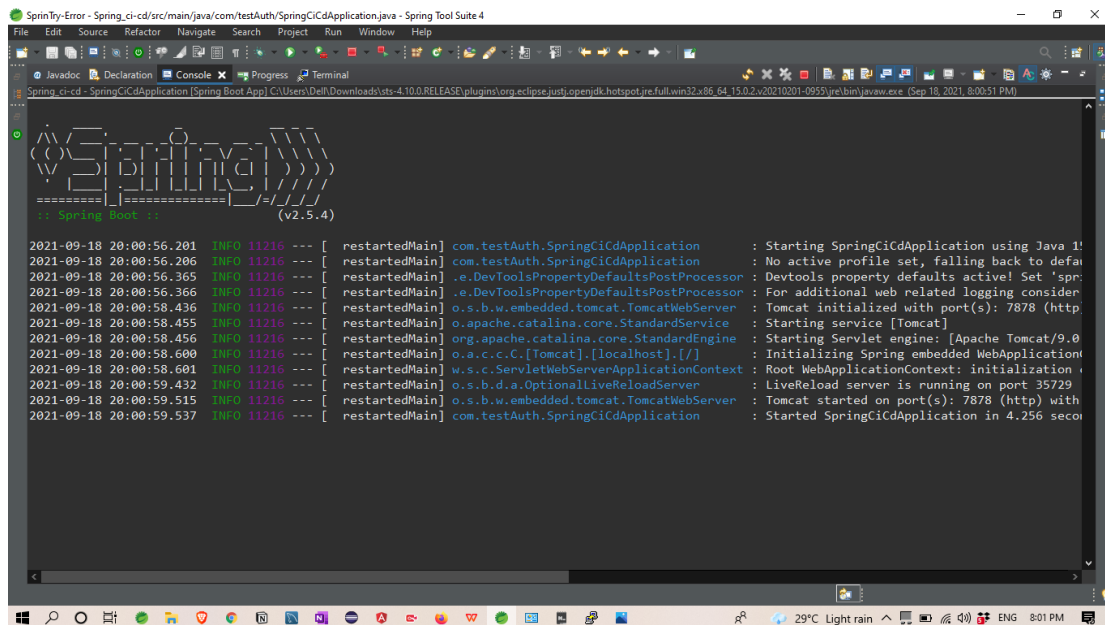
```

Writable Smart Insert 16:57:436

29°C Light rain

1.

I create Simple Spring boot Application to
build a CI/CD pipeline to demonstrate continuous
deployment

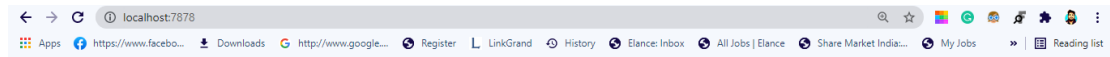


```
Sprintr-Error - Spring-ci-cd/src/main/java/com/testAuth/SpringCiCdApplication.java - Spring Tool Suite 4
File Edit Source Refactor Navigate Search Project Run Window Help
Spring-ci-cd - SpringCiCdApplication [Spring Boot App] C:\Users\Def\Downloads\sts-4.10.0.RELEASE\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64.15.0.2.v20210201-0955\jre\bin\java.exe (Sep 18, 2021, 8:00:51 PM)

Spring Boot (v2.5.4)

2021-09-18 20:00:56.201 INFO 11216 --- [ restartedMain] com.testAuth.SpringCiCdApplication : Starting SpringCiCdApplication using Java 11
2021-09-18 20:00:56.206 INFO 11216 --- [ restartedMain] com.testAuth.SpringCiCdApplication : No active profile set, falling back to default
2021-09-18 20:00:56.365 INFO 11216 --- [ restartedMain] .e.DevToolsPropertyDefaultsPostProcessor : Devtools property defaults active! Set 'spring.devtools.livereload.enabled' to false to suppress logging
2021-09-18 20:00:56.366 INFO 11216 --- [ restartedMain] .e.DevToolsPropertyDefaultsPostProcessor : For additional web related logging consider setting 'spring.devtools.web-console.enabled' to true
2021-09-18 20:00:58.436 INFO 11216 --- [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 7878 (http)
2021-09-18 20:00:58.455 INFO 11216 --- [ restartedMain] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2021-09-18 20:00:58.456 INFO 11216 --- [ restartedMain] org.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/9.0.40]
2021-09-18 20:00:58.600 INFO 11216 --- [ restartedMain] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationContext
2021-09-18 20:00:58.601 INFO 11216 --- [ restartedMain] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed
2021-09-18 20:00:59.432 INFO 11216 --- [ restartedMain] o.s.b.d.a.OptionalLiveReloadServer : LiveReload server is running on port 35729
2021-09-18 20:00:59.515 INFO 11216 --- [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 7878 (http) with
2021-09-18 20:00:59.537 INFO 11216 --- [ restartedMain] com.testAuth.SpringCiCdApplication : Started SpringCiCdApplication in 4.256 seconds
```

Output :-



Welcome To Spring Boot CI-CD deployment

Git Hub: Application Deploy on git Hub

The screenshot displays a GitHub repository interface. At the top, navigation tabs include Code, Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. The repository is named 'omkaroc27' and is currently on the 'master' branch, which is 1 commit ahead of the main branch. The commit history shows two commits: 'second commit' by 'omkaroc27' yesterday and 'first commit' by 'omkaroc27' 3 days ago. The file list includes '.mvn/wrapper', 'src', '.gitignore', 'dockerfile', 'mvnw', 'mvnw.cmd', and 'pom.xml'. The right sidebar shows the 'About' section with a note that no description, website, or topics are provided. Below this, the 'Releases' section indicates no releases have been published, and the 'Packages' section indicates no packages have been published. The 'Languages' section shows that the repository is 100% Java. A bottom banner encourages adding a README file to help people understand the project.

<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

master 2 branches 0 tags

Go to file Add file Code

About

No description, website, or topics provided.

Releases

No releases published
Create a new release

Packages

No packages published
Publish your first package

Languages

Java 100.0%

omkaroc27 second commit 1886997 yesterday 2 commits

| | | |
|--------------|---------------|------------|
| .mvn/wrapper | second commit | yesterday |
| src | first commit | 3 days ago |
| .gitignore | second commit | yesterday |
| dockerfile | second commit | yesterday |
| mvnw | first commit | 3 days ago |
| mvnw.cmd | first commit | 3 days ago |
| pom.xml | first commit | 3 days ago |

Help people interested in this repository understand your project by adding a README. Add a README

2.

Then that application Uploaded on Git Hub

GitHub link-

<https://github.com/Mahendra1272/CI-CD-Deployment-for-Springboot-Application.git>

Jenkins : Run Jenkins

```
webroot: $user.home/.jenkins
2021-09-16 06:35:47.677*0000 [id=1] INFO org.eclipse.jetty.util.log.Log#initialized: Logging initialized @2834ms to org.eclipse.jetty.util.log.JavaUtilLog
2021-09-16 06:35:47.930*0000 [id=1] INFO winstone.Logger#logInternal: Beginning extraction from war file
2021-09-16 06:35:48.006*0000 [id=1] WARNING o.e.j.s.handler.ContextHandler#setContextPath: Empty contextPath
2021-09-16 06:35:48.175*0000 [id=1] INFO org.eclipse.jetty.server.Server#doStart: jetty-9.4.43.v20210629; built: 2021-06-30T11:07:22.254Z; git: 526006ecfa3af7f1a7ef3a288e2bef7ea9dd7e8; jvm 11.0.12*8-LTS-237
2021-09-16 06:35:52.318*0000 [id=1] INFO o.e.j.w.StandardDescriptorProcessor#visitServlet: NO JSP Support for /, did not find org.eclipse.jetty.jsp.JettyJspServlet
2021-09-16 06:35:52.572*0000 [id=1] INFO o.e.j.s.s.DefaultSessionIdManager#doStart: DefaultSessionIdManager workerName=node0
2021-09-16 06:35:52.573*0000 [id=1] INFO o.e.j.s.s.DefaultSessionIdManager#doStart: No SessionScavenger set, using defaults
2021-09-16 06:35:52.578*0000 [id=1] INFO o.e.j.server.session.HouseKeeper#startScavenging: node0 Scavenging every 600000ms
2021-09-16 06:35:54.899*0000 [id=1] INFO hudson.WebAppMain#contextInitialized: Jenkins home directory: C:\Users\Dell\.jenkins found at: $user.home/.jenkins
2021-09-16 06:35:55.778*0000 [id=1] INFO o.e.j.s.handler.ContextHandler#doStart: Started w.Rd59970a(Jenkins v2.309,/,file:///C:/Users/Dell/.jenkins/war/AVAILABLE)
C:\Users\Dell\.jenkins\war
2021-09-16 06:35:55.930*0000 [id=1] INFO o.e.j.server.AbstractConnector#doStart: Started ServerConnector@385e9564(HTTP/1.1, (http/1.1))@0.0.0.0:8998
2021-09-16 06:35:55.933*0000 [id=1] INFO org.eclipse.jetty.server.Server#doStart: Started @1094ms
2021-09-16 06:35:55.939*0000 [id=25] INFO winstone.Logger#logInternal: Winstone Servlet Engine running: controlPort=disabled
2021-09-16 06:35:56.893*0000 [id=31] INFO jenkins.InitReactorRunner$1#onAttained: Started initialization
2021-09-16 06:36:03.742*0000 [id=30] INFO jenkins.InitReactorRunner$1#onAttained: Listed all plugins
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by com.google.inject.internal.cglib.core.$ReflectUtils$2 (file:/C:/Users/Dell/.jenkins/war/WEB-INF/lib/guice-4.0.jar) to method java.lang.ClassLoader.defineClass(java.lang.String,byte[],int,int,java.security.ProtectionDomain)
WARNING: Please consider reporting this to the maintainers of com.google.inject.internal.cglib.core.$ReflectUtils$2
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
WARNING: All illegal access operations will be denied in a future release
2021-09-16 06:36:18.998*0000 [id=32] INFO jenkins.InitReactorRunner$1#onAttained: Prepared all plugins
2021-09-16 06:36:19.080*0000 [id=37] INFO jenkins.InitReactorRunner$1#onAttained: Started all plugins
2021-09-16 06:36:23.300*0000 [id=34] INFO jenkins.InitReactorRunner$1#onAttained: Augmented all extensions
2021-09-16 06:36:23.599*0000 [id=36] INFO jenkins.InitReactorRunner$1#onAttained: System config loaded
2021-09-16 06:36:23.608*0000 [id=36] INFO jenkins.InitReactorRunner$1#onAttained: System config adapted
2021-09-16 06:36:23.971*0000 [id=35] INFO jenkins.InitReactorRunner$1#onAttained: Loaded all jobs
2021-09-16 06:36:23.972*0000 [id=30] INFO jenkins.InitReactorRunner$1#onAttained: Configuration for all jobs updated
2021-09-16 06:36:24.270*0000 [id=50] INFO hudson.model.AsyncPeriodicWork$lambda$doRun$0: Started Download metadata
2021-09-16 06:36:24.511*0000 [id=50] INFO hudson.model.AsyncPeriodicWork$lambda$doRun$0: Finished Download metadata. 238 ms
2021-09-16 06:36:24.573*0000 [id=37] INFO jenkins.InitReactorRunner$1#onAttained: Completed initialization
2021-09-16 06:36:24.652*0000 [id=24] INFO hudson.WebAppMain$3#run: Jenkins is fully up and running
```

CREATE THREE JENKINS PROJECT DEPLOYMENT:-

DEPLOYMENT-TESTING-PRODUCTION

Dashboard

New Item

People

Build History

Project Relationship

Check File Fingerprint

Manage Jenkins

My Views

Lockable Resources

New View

Build Queue

No builds in the queue.

Build Executor Status

1 Idle

Hello I Am OC

Edit description

All

CI-CD Pipeline Spring-Jenkins

+

| S | W | Name ↓ | Last Success | Last Failure | Last Duration | |
|---|---|---------------------------------|-------------------|--------------|---------------|--|
| | | Deployment Spring Jenkins ci-cd | 1 hr 32 min - #22 | N/A | 58 sec | |
| | | Production Spring Jenkins | 1 hr 30 min - #8 | N/A | 54 sec | |
| | | Testing Spring Jenkins | 1 hr 31 min - #8 | N/A | 37 sec | |

Icon:

S

M

L

Icon legend

Atom feed for all

Atom feed for failures

Atom feed for just latest builds

Dashboard

Deployment Spring Jenkins ci-cd

Back to Dashboard

Status

Changes

Workspace

Build Now

Configure

Delete Project

GitHub

Rename

Build History

id

222

221

220

Project Deployment Spring Jenkins ci-cd

Add description

Disable Project

Workspace

Recent Changes

Downstream Projects

Testing Spring Jenkins

Permalinks

Last build (#22), 1 hr 33 min ago

Last stable build (#22), 1 hr 33 min ago

Last successful build (#22), 1 hr 33 min ago

Last completed build (#22), 1 hr 33 min ago

Sep 17, 2021, 6:29 PM

Sep 17, 2021, 6:27 PM

Sep 17, 2021, 6:10 PM


```
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] Using 'UTF-8' encoding to copy filtered properties files.
[INFO] skip non existing resourceDirectory C:\Users\De11\jenkins\workspace\Spring Jenkins ci-cd\src\test\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.8.1:testCompile (default-testCompile) @ Auth ---
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 1 source file to C:\Users\De11\jenkins\workspace\Spring Jenkins ci-cd\target\test-classes
[INFO]
[INFO] --- maven-surefire-plugin:2.22.2:test (default-test) @ Auth ---
[INFO] Skipping execution of surefire because it has already been run for this configuration
[INFO]
[INFO] --- maven-jar-plugin:3.2.0:jar (default-jar) @ Auth ---
[INFO] Building jar: C:\Users\De11\jenkins\workspace\Spring Jenkins ci-cd\target\Auth-0.0.1-SNAPSHOT.jar
[INFO]
[INFO] --- spring-boot-maven-plugin:2.5.4:repackage (repackage) @ Auth ---
[INFO] Replacing main artifact with repackaged archive
[INFO]
[INFO] --- maven-install-plugin:2.5.2:install (default-install) @ Auth ---
[INFO] Installing C:\Users\De11\jenkins\workspace\Spring Jenkins ci-cd\target\Auth-0.0.1-SNAPSHOT.jar to C:\Users\De11\.m2\repository\com\ci\cd-dep\Auth\0.0.1-SNAPSHOT\Auth-0.0.1-SNAPSHOT.jar
[INFO] Installing C:\Users\De11\jenkins\workspace\Spring Jenkins ci-cd\pom.xml to C:\Users\De11\.m2\repository\com\ci\cd-dep\Auth\0.0.1-SNAPSHOT\Auth-0.0.1-SNAPSHOT.pom
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 39.186 s
[INFO] Finished at: 2021-09-17T18:30:19+05:30
[INFO] -----
Triggering a new build of Testing Spring Jenkins
Finished: SUCCESS
```

TESTING

Dashboard

Testing Spring Jenkins

Back to Dashboard

Status

Changes

Workspace

Build Now

Configure

Delete Project

GitHub

Rename

Build History

trend

find

#8 Sep 17, 2021, 6:30 PM

#7 Sep 17, 2021, 6:28 PM

#6 Sep 17, 2021, 6:11 PM

Project Testing Spring Jenkins

testing Environment

Edit description

Disable Project

Workspace

Recent Changes

Upstream Projects

Deployment Spring Jenkins ci-cd

Downstream Projects

Production Spring Jenkins

Permalinks

Last build (#8), 1 hr 32 min ago

Last stable build (#8), 1 hr 32 min ago

Last successful build (#8), 1 hr 32 min ago

Last completed build (#8), 1 hr 32 min ago

Dashboard

Testing Spring Jenkins

#8

Back to Project

Status

Changes

Console Output

View as plain text

Edit Build Information

Delete build '#8'

Git Build Data

Previous Build

Console Output

Started by upstream project "Spring Jenkins ci-cd" build number 22 originally caused by:
Started by user onkar rajendra charate
Running as SYSTEM
Building in workspace C:\Users\De11\jenkins\workspace\Testing Spring Jenkins
The recommended git tool is: NONE
using credential Omkaroc27
> C:\Program Files\Git\cmd\git.exe rev-parse --resolve-git-dir C:\Users\De11\jenkins\workspace\Testing Spring Jenkins\.git # timeout=10
Fetching changes from the remote Git repository
> C:\Program Files\Git\cmd\git.exe config remote.origin.url https://github.com/omkaroc27/ci_cd_pipeline.git # timeout=10
Fetching upstream changes from https://github.com/omkaroc27/ci_cd_pipeline.git
> C:\Program Files\Git\cmd\git.exe --version # timeout=10
> git --version # 'git version 2.33.0.windows.2'
using GIT_ASKPASS to set credentials
> C:\Program Files\Git\cmd\git.exe fetch --tags --force --progress -- https://github.com/omkaroc27/ci_cd_pipeline.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> C:\Program Files\Git\cmd\git.exe rev-parse "refs/remotes/origin/master^{commit}" # timeout=10
Checking out Revision 18869974fe92467de259868964740b9c3befb433 (refs/remotes/origin/master)
> C:\Program Files\Git\cmd\git.exe config core.sparsecheckout # timeout=10
> C:\Program Files\Git\cmd\git.exe checkout -f 18869974fe92467de259868964740b9c3befb433 # timeout=10
Commit message: "second commit"
> C:\Program Files\Git\cmd\git.exe rev-list --no-walk 18869974fe92467de259868964740b9c3befb433 # timeout=10
[Testing Spring Jenkins] \$ cmd.exe /C "C:\Users\De11\jenkins\tools\hudson.tasks.Maven\HavenInstallation\Haven3\bin\mvn.cmd test compile install && exit %ERRORLEVEL%"
[INFO] Scanning for projects...
[INFO]
[INFO] -----< com.ci.cd-dep:Auth >-----
[INFO] Building Spring_ci-cd 0.0.1-SNAPSHOT

[illegible]


```
[INFO]
[INFO] --- maven-resources-plugin:3.2.0:testResources (default-testResources) @ Auth ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] Using 'UTF-8' encoding to copy filtered properties files.
[INFO] skip non existing resourceDirectory C:\Users\De11\.jenkins\workspace\Testing Spring Jenkins\src\test\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.8.1:testCompile (default-testCompile) @ Auth ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- maven-surefire-plugin:2.22.2:test (default-test) @ Auth ---
[INFO] Skipping execution of surefire because it has already been run for this configuration
[INFO]
[INFO] --- maven-jar-plugin:3.2.0:jar (default-jar) @ Auth ---
[INFO]
[INFO] --- spring-boot-maven-plugin:2.5.4:repackage (repackage) @ Auth ---
[INFO] Replacing main artifact with repackaged archive
[INFO]
[INFO] --- maven-install-plugin:2.5.2:install (default-install) @ Auth ---
[INFO] Installing C:\Users\De11\.jenkins\workspace\Testing Spring Jenkins\target\Auth-0.0.1-SNAPSHOT.jar to C:\Users\De11\.m2\repository\com\ci\cd-dep\Auth\0.0.1-SNAPSHOT\Auth-0.0.1-SNAPSHOT.jar
[INFO] Installing C:\Users\De11\.jenkins\workspace\Testing Spring Jenkins\pom.xml to C:\Users\De11\.m2\repository\com\ci\cd-dep\Auth\0.0.1-SNAPSHOT\Auth-0.0.1-SNAPSHOT.pom
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 28.837 s
[INFO] Finished at: 2021-09-17T18:31:02+05:30
[INFO] -----
Triggering a new build of Production Spring Jenkins
Finished: SUCCESS
```

PRODUCTION

Dashboard

Production Spring Jenkins

Back to Dashboard

Status

Changes

Workspace

Build Now

Configure

Delete Project

GitHub

Rename

Build History

Build History

17

Sep 17, 2021, 6:31 PM

17

Sep 17, 2021, 6:28 PM

16

Sep 17, 2021, 6:12 PM

Project Production Spring Jenkins

production environment

Workspace

Recent Changes

Upstream Projects

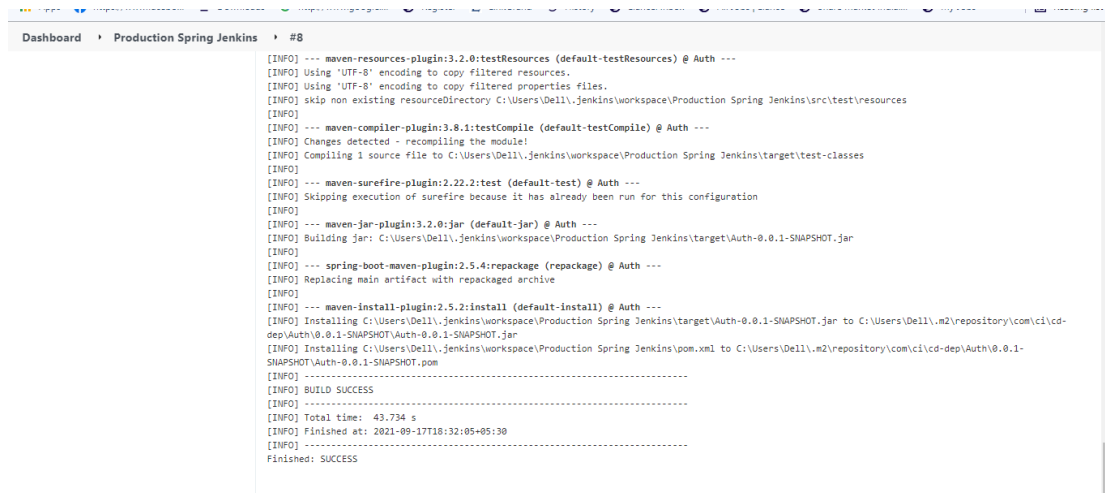
Testing Spring Jenkins

Permalinks

- Last build (#8), 1 hr 35 min ago
- Last stable build (#8), 1 hr 35 min ago
- Last successful build (#8), 1 hr 35 min ago
- Last completed build (#8), 1 hr 35 min ago

Edit description

Disable Project



```
[INFO] --- maven-resources-plugin:3.2.0:testResources (default-testResources) @ Auth ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] Using 'UTF-8' encoding to copy filtered properties files.
[INFO] skip non existing resourceDirectory C:\Users\De11\jenkins\workspace\Production Spring Jenkins\src\test\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.8.1:testCompile (default-testCompile) @ Auth ---
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 1 source file to C:\Users\De11\jenkins\workspace\Production Spring Jenkins\target\test-classes
[INFO]
[INFO] --- maven-surefire-plugin:2.22.2:test (default-test) @ Auth ---
[INFO] Skipping execution of surefire because it has already been run for this configuration
[INFO]
[INFO] --- maven-jar-plugin:3.2.0:jar (default-jar) @ Auth ---
[INFO] Building jar: C:\Users\De11\jenkins\workspace\Production Spring Jenkins\target\Auth-0.0.1-SNAPSHOT.jar
[INFO]
[INFO] --- spring-boot-maven-plugin:2.5.4:repackage (repackage) @ Auth ---
[INFO] Replacing main artifact with repackaged archive
[INFO]
[INFO] --- maven-install-plugin:2.5.2:install (default-install) @ Auth ---
[INFO] Installing C:\Users\De11\jenkins\workspace\Production Spring Jenkins\target\Auth-0.0.1-SNAPSHOT.jar to C:\Users\De11\.m2\repository\com\ci\cd-dep\Auth\0.0.1-SNAPSHOT\Auth-0.0.1-SNAPSHOT.jar
[INFO] Installing C:\Users\De11\jenkins\workspace\Production Spring Jenkins\pom.xml to C:\Users\De11\.m2\repository\com\ci\cd-dep\Auth\0.0.1-SNAPSHOT\Auth-0.0.1-SNAPSHOT.pom
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 43.734 s
[INFO] Finished at: 2021-09-17T18:32:05+05:30
[INFO] -----
Finished: SUCCESS
```

3) in Jenkins I create three build for continues deployment

And pipeline them

**build a CI/CD pipeline to demonstrate
continuous deployment**

AWS EC2

Services

Search for services, features, marketplace products, and docs

CoreStack_RuleEngineCharlize27@gmail.com67534437353946

Global

Support

Amazon S3

X

Buckets

Access Points

Object Lambda Access Points

Multi-Region Access Points

Batch Operations

Access analyzer for S3

Block Public Access settings for this account

Storage Lens

Dashboards

AWS Organizations settings

Feature spotlight 3

Properties

Permissions

Versions

Object overview

Owner

AWS Region

US East (Ohio) us-east-2

Last modified

September 18, 2021, 18:57:27 (UTC+05:30)

Size

16.5 MB

Type

jar

Key

Spring_CI-CD-deployment-exe.jar

S3 URI

s3://springjenkins2/Spring_CI-CD-deployment-exe.jar

Amazon Resource Name (ARN)

arn:aws:s3:::springjenkins2/Spring_CI-CD-deployment-exe.jar

Entity tag (Etag)

aec852eb60ac460abbb5e22090a29c2e-2

Object URL

https://springjenkins2.s3.us-east-2.amazonaws.com/Spring_CI-CD-deployment-exe.jar

Feedback

English (US)

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Privacy Policy

Terms of Use

Cookie preferences

1. then open command line and deploy Application in EC2 Instance

```

 Using username "ec2-user".
 Authenticating with public key "imported-openssh-key"
Last login: Sat Sep 18 11:15:24 2021 from ec2-18-206-107-25.compute-1.amazonaws.
com

  _ | _ | _ )
  _ | ( _ /   Amazon Linux 2 AMI
  _ |\ _ | _ !

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-19-181 ~]$

```

```

root@ip-172-31-19-181:~
37 mono available [ =5.x =stable ]
38 nghttp available [ =stable ]
39 ruby2.6 available [ =2.6 =stable ]
40 mock available [ =stable ]
41 postgresql11 available [ =11 =stable ]
42 php7.4 available [ =stable ]
43 livepatch available [ =stable ]
44 python3.6 available [ =stable ]
45 haproxy2 available [ =stable ]
46 collectd available [ =stable ]
47 aws-nitro-enclaves-cli available [ =stable ]
48 R4 available [ =stable ]
49 kernel-5.4 available [ =stable ]
50 selinux-ng available [ =stable ]
51 php8.0 available [ =stable ]
52 tomcat9 available [ =stable ]
53 unbound1.13 available [ =stable ]
54 mariadb10.5 available [ =stable ]
55 kernel-5.10 available [ =stable ]
56 redis6 available [ =stable ]
57 ruby3.0 available [ =stable ]
58 postgresql12 available [ =stable ]
59 postgresql13 available [ =stable ]
60 mock2 available [ =stable ]
61 dnsmasq2.85 available [ =stable ]

root@ip-172-31-19-181 ~# java -version
openjdk version "11.0.12" 2021-07-20 LTS
OpenJDK Runtime Environment 18.9 (build 11.0.12+7-LTS, mixed mode, sharing)
OpenJDK 64-Bit Server VM 18.9 (build 11.0.12+7-LTS, mixed mode, sharing)

root@ip-172-31-19-181 ~# java alternative --config java
-bash: alternative: command not found

root@ip-172-31-19-181 ~# wget https://springjenkins2.s3.us-east-2.amazonaws.com/Spring_CI-CD-deployment-exe.jar
--2021-09-18 13:29:54-- https://springjenkins2.s3.us-east-2.amazonaws.com/Spring_CI-CD-deployment-exe.jar
Resolving springjenkins2.s3.us-east-2.amazonaws.com (springjenkins2.s3.us-east-2.amazonaws.com) ... 52.219.96.104
Connecting to springjenkins2.s3.us-east-2.amazonaws.com (springjenkins2.s3.us-east-2.amazonaws.com) [52.219.96.104]:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 17344872 (17M) [application/x-www-form-urlencoded]
Saving to: 'Spring_CI-CD-deployment-exe.jar'

100%[=====] 17,344,872 19.9MB/s in 0.8s

2021-09-18 13:29:55 (19.9 MB/s) - 'Spring_CI-CD-deployment-exe.jar' saved [17344872/17344872]

```



```
root@ip-172-31-19-181:~#
OpenJDK Runtime Environment 18.9 (build 11.0.12+7-LTS)
OpenJDK 64-Bit Server VM 18.9 (build 11.0.12+7-LTS, mixed mode, sharing)
[root@ip-172-31-19-181 ~]# alternative --config java
-bash: alternative: command not found
[root@ip-172-31-19-181 ~]# wget https://springjenkins2.s3.us-east-2.amazonaws.com/Spring_CI-CD-deployment-exe.jar
--2021-09-18 13:29:54-- https://springjenkins2.s3.us-east-2.amazonaws.com/Spring_CI-CD-deployment-exe.jar
Resolving springjenkins2.s3.us-east-2.amazonaws.com (springjenkins2.s3.us-east-2.amazonaws.com)... 52.219.96.104
Connecting to springjenkins2.s3.us-east-2.amazonaws.com (springjenkins2.s3.us-east-2.amazonaws.com)[52.219.96.104]:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 17344872 (17M) [application/x-www-form-urlencoded]
Saving to: 'Spring_CI-CD-deployment-exe.jar'

100%[=====] 17,344,872 19.9MB/s in 0.8s

2021-09-18 13:29:55 (19.9 MB/s) - 'Spring_CI-CD-deployment-exe.jar' saved [17344872/17344872]

[root@ip-172-31-19-181 ~]# ls
Spring_CI-CD-deployment-exe.jar
[root@ip-172-31-19-181 ~]# java -jar ^C
[root@ip-172-31-19-181 ~]# java -jar ^C
[root@ip-172-31-19-181 ~]# Spring_CI-CD-deployment-exe.jar
-bash: Spring_CI-CD-deployment-exe.jar: command not found
[root@ip-172-31-19-181 ~]# java -jar Spring_CI-CD-deployment-exe.jar

      ____
     / ___/
    /  /_  /
   /___/  /
  /_____/

:: Spring Boot ::
(v2.5.4)

2021-09-18 13:31:10.411 INFO 1527 --- [main] com.testAuth.SpringCiCdApplication : Starting SpringCiCdApplication v0.0.1-SNAPSHOT using Java 11.0.12 on
ip-172-31-19-181.ec2.internal with PID 1527 (/root/Spring_CI-CD-deployment-exe.jar started by root in /root)
2021-09-18 13:31:10.414 INFO 1527 --- [main] com.testAuth.SpringCiCdApplication : No active profile set, falling back to default profiles: default
2021-09-18 13:31:13.072 INFO 1527 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 7878 (http)
2021-09-18 13:31:13.102 INFO 1527 --- [main] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2021-09-18 13:31:13.107 INFO 1527 --- [main] org.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/9.0.52]
2021-09-18 13:31:13.270 INFO 1527 --- [main] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationContext
2021-09-18 13:31:13.271 INFO 1527 --- [main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed in 2688 ms
2021-09-18 13:31:14.735 INFO 1527 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 7878 (http) with context path ''
2021-09-18 13:31:14.757 INFO 1527 --- [main] com.testAuth.SpringCiCdApplication : Started SpringCiCdApplication in 5.637 seconds (JVM running for 6.70
s)
```

2. Application Started running with Port no 7878

```
[root@ip-172-31-19-181 ~]# ls
Spring_CI-CD-deployment-exe.jar
[root@ip-172-31-19-181 ~]# java -jar ^C
[root@ip-172-31-19-181 ~]# java -jar ^C
[root@ip-172-31-19-181 ~]# Spring_CI-CD-deployment-exe.jar
-bash: Spring_CI-CD-deployment-exe.jar: command not found
[root@ip-172-31-19-181 ~]# java -jar Spring_CI-CD-deployment-exe.jar

      ____
     / ___/
    /  /_  /
   /___/  /
  /_____/

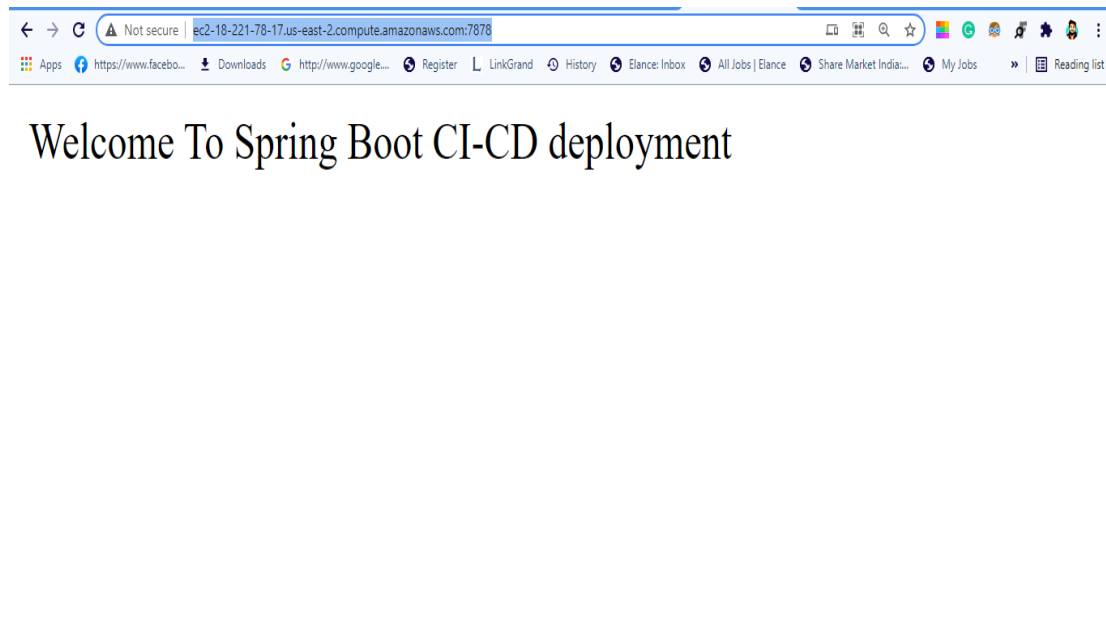
:: Spring Boot ::
(v2.5.4)

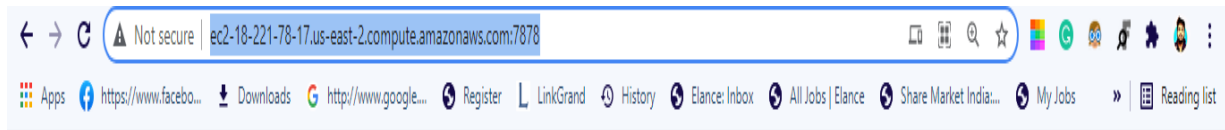
2021-09-18 13:31:10.411 INFO 1527 --- [main] com.testAuth.SpringCiCdApplication : Starting SpringCiCdApplication v0.0.1-SNAPSHOT using Java 11.0.12 on
ip-172-31-19-181.ec2.internal with PID 1527 (/root/Spring_CI-CD-deployment-exe.jar started by root in /root)
2021-09-18 13:31:10.414 INFO 1527 --- [main] com.testAuth.SpringCiCdApplication : No active profile set, falling back to default profiles: default
2021-09-18 13:31:13.072 INFO 1527 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 7878 (http)
2021-09-18 13:31:13.102 INFO 1527 --- [main] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2021-09-18 13:31:13.107 INFO 1527 --- [main] org.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/9.0.52]
2021-09-18 13:31:13.270 INFO 1527 --- [main] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationContext
2021-09-18 13:31:13.271 INFO 1527 --- [main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed in 2688 ms
2021-09-18 13:31:14.735 INFO 1527 --- [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 7878 (http) with context path ''
2021-09-18 13:31:14.757 INFO 1527 --- [main] com.testAuth.SpringCiCdApplication : Started SpringCiCdApplication in 5.637 seconds (JVM running for 6.70
s)
```

6.Last host the application on AWS EC2 instance.

Application running with this URL:-

Final Output:-





Welcome To Spring Boot CI-CD deployment