

DAY 10 TASK

Deploying a Java Spring Boot application using Jenkins

Description

Java Spring Boot App

Plain text Preview

☒ Discard old builds ?

Strategy

Log Rotation

Days to keep builds
If not empty, build records are only kept up to this number of days

5

Max # of builds to keep
If not empty, only up to this number of build records are kept

3

Advanced

☐ Do not allow concurrent builds

☐ Do not allow the pipeline to resume if the controller restarts

☐ GitHub project

☐ Pipeline speed/durability override ?

☐ Preserve stashes from completed builds ?

☐ This project is parameterized ?

☐ Throttle builds ?

Create a new Pipeline.

Triggers

Set up automated actions that start your build based on specific events, like code changes or scheduled times.

☐ Build after other projects are built ?

☐ Build periodically ?

☐ Build whenever a SNAPSHOT dependency is built ?

☐ GitHub hook trigger for GITScm polling ?

☒ Poll SCM ?

Schedule ?

H/5 * * * *

Would last have run at Monday, 24 February, 2025, 8:31:47 pm India Standard Time; would next run at Monday, 24 February, 2025, 8:31:47 pm India Standard Time.

☐ Ignore post-commit hooks ?

Choose Poll SCM

Pipeline

Define your Pipeline using Groovy directly or pull it from source control.

Definition

Pipeline script

In Pipeline Script add the code.

Script ?

```
1 pipeline {
2   agent any
3
4   stages {
5     stage('Build') {
6       steps {
7         // Get code from GitHub repository
8         git branch: 'main', url: 'https://github.com/sonam-niit/springproject.git'
9
10        // Run Maven Wrapper Commands
11        bat './mvnw compile'
12
13        echo 'Building the Project with maven compile'
14      }
15    }
16
17    stage('Test') {
18      steps {
```

☒ Use Groovy Sandbox ?

[Pipeline Syntax](#)

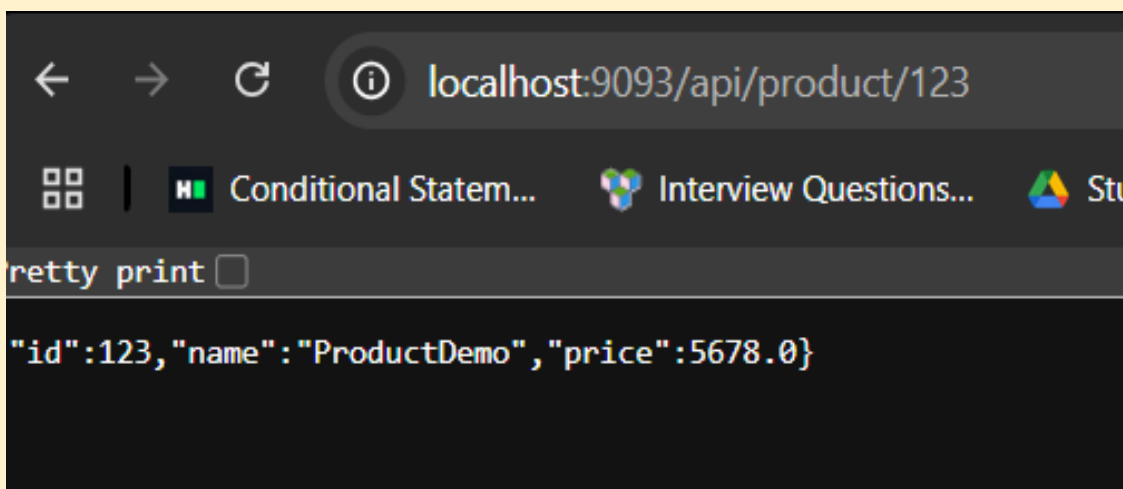
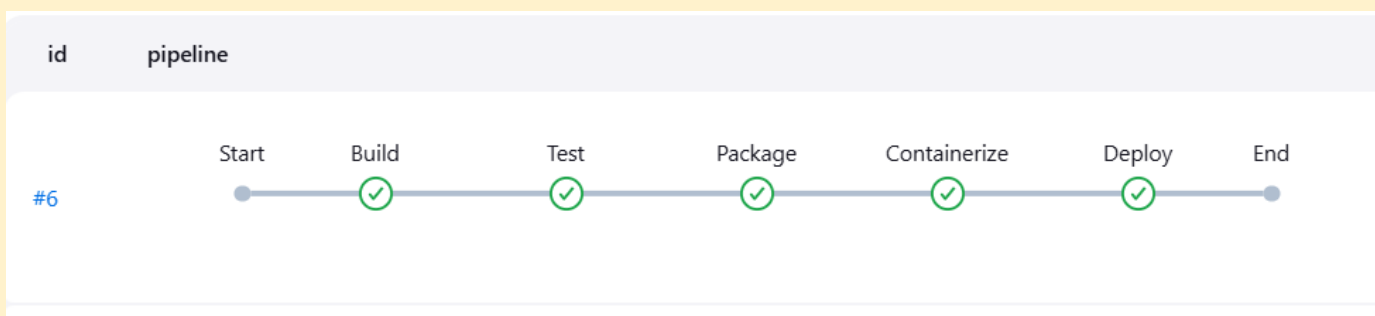
```
1 pipeline {
2   agent any
3
4   stages {
5     stage('Build') {
6       steps {
7         // Get some code from a GitHub repository
8         git branch: 'main', url: 'https://github.com/sonam-niit/springproject.git'
9
10        // Run Maven Wrapper Commands
11        bat './mvnw compile'
12
13        echo 'Building the Project with maven compile'
14      }
15    }
16
17    stage('Test') {
18      steps {
19        // Run Maven Wrapper Commands
20        bat './mvnw test'
21
22        echo 'Testing the Project with maven test'
23      }
24    }
25
26    stage('Package') {
27      steps {
28        // Run Maven Wrapper Commands
29        bat './mvnw package'
30
31        echo 'Packaging the Project with maven package'
32      }
33    }
34
35    stage('Containerize') {
36      steps {
37        // Build Docker image
38        bat 'docker build -t myapp .'
```

```

39     echo 'Containerizing the App with Docker'
40   }
41 }
42 }
43
44 stage('Deploy') {
45   steps {
46     script {
47       // Check if the container is running
48       def containerRunning = bat(script: 'docker ps -q -f name=sbapp', returnStdout: true).trim()
49       if (containerRunning) {
50         // Stop and remove the running container
51         bat "docker stop sbapp"
52         bat "docker rm sbapp"
53       }
54     }
55
56     // Run Docker container
57     bat "docker run -d --name sbapp -p 9090:8082 myapp"
58
59     echo 'Deploying the App with Docker'
60   }
61 }
62 }
63 }

```

Then we will start building,
and we will see these Stages.



←

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localhost:9093/api/message

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H

Conditional Statem...

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Interview Questions...

Jenkins completed Successfully

🔍 Search

☐☐☐

🔴

Only show running containers

<div><input type="checkbox"/></div>	Name	Container ID	Image	Port(s)	CPU (%)	Last started	Actions
<input type="checkbox"/>	<div><div>●</div>app3</div>	dd9dd6ce84c8	webpage3	9091:80 ↗	0%	6 hours ago	<div><div>■</div><div>⋮</div><div>🗑</div></div>
<input type="checkbox"/>	<div><div>●</div>phonebook-project</div>	912b4ff213cf	phonebook	8085:80 ↗	0%	7 hours ago	<div><div>■</div><div>⋮</div><div>🗑</div></div>
<input type="checkbox"/>	<div><div>●</div>app</div>	dbb8f8614d98	webpage1	9092:80 ↗	0%	11 hours ago	<div><div>■</div><div>⋮</div><div>🗑</div></div>
<input type="checkbox"/>	<div><div>●</div>container1</div>	b614eb292595	nginx		0%	3 hours ago	<div><div>■</div><div>⋮</div><div>🗑</div></div>
<input type="checkbox"/>	<div><div>●</div>container2</div>	63720b8855fd	nginx		0%	3 hours ago	<div><div>■</div><div>⋮</div><div>🗑</div></div>
<input type="checkbox"/>	<div><div>●</div>container3</div>	bcb327348165	nginx		0%	3 hours ago	<div><div>■</div><div>⋮</div><div>🗑</div></div>
<input type="checkbox"/>	<div><div>⦿</div>sbapp</div>	6aef961b5588	myapp	9092:8082	0%		<div><div>▶</div><div>⋮</div><div>🗑</div></div>