

### Scripted pipeline:

Create a new pipeline job and select pipeline script and start writing it and save it.

Script:

```
-----
node {
    stage('Fetch source code'){
        git 'https://github.com/IshaanSingh1301/CI-CD-Sample-Scripted-Pipeline.git'
    }

    stage('Sonar Analysis') {

        bat 'mvn sonar:sonar -Dsonar.host.url=http://localhost:9000
-Dsonar.login=b90a3548447883f6aba5eda092c18ac2909ed4f1'

    }

    stage('Compile') {

        bat 'mvn compile'

    }

    stage('Package') {

        bat 'mvn package'

    }

    stage('Install') {

        bat 'mvn install'

    }

    stage ('Nexus upload') {
        nexusArtifactUploader(
            nexusVersion: 'nexus3',
            protocol: 'http',
            nexusUrl: 'localhost:8081',
            groupId: 'Scripted-pipeline',

```

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```

    version: '1.0-SNAPSHOT',
    repository: 'Scripted-pipeline',
    credentialsId: 'nexusid',
    artifacts: [
        [artifactId: 'Artifact-scr-01',
         classifier: "",
         file: 'C:/Users/ishaa/.jenkins/workspace/Scripted
Pipeline/target/Artifact-scr-01-0.0.1-SNAPSHOT.war',
         type: 'war']
    ]
)
}

stage ('Deploy to Tomcat') {

    deploy adapters: [tomcat7(credentialsId: 'tomcatid', path: "", url:
'http://localhost:9090')], contextPath: 'Scripted', war: '**/*.war'

}

}

```

---

## Screenshots:

Jenkins > Scripted Pipeline

General Build Triggers Advanced Project Options **Pipeline**

### Pipeline

Definition Pipeline script

Script

```
1 node {
2   stage('Fetch source code'){
3     git 'https://github.com/IshaanSingh1301/CI-CD-Sample-Scripted-Pipeline.git'
4   }
5
6   stage('Sonar Analysis') {
7
8     bat 'mvn sonar:sonar -Dsonar.host.url=http://localhost:9000 -Dsonar.login=b90a354844788'
9
10  }
11
12  stage('Compile') {
13
14    bat 'mvn compile'
15  }
16
17 }
```

☐ Use Groovy Sandbox

[Pipeline Syntax](#)

Save Apply

Jenkins > Scripted Pipeline

General Build Triggers Advanced Project Options **Pipeline**

### Pipeline

Definition Pipeline script

Script

```
34 repository: 'Scripted-pipeline',
35 credentialsId: 'nexusid',
36 artifacts: [
37   {
38     artifactId: 'Artifact-scr-01',
39     classifier: '',
40     file: 'C:/Users/ishaa/.jenkins/workspace/Scripted Pipeline/target/Artifact-scr-01',
41     type: 'war'
42   }
43 ]
44
45 stage('Deploy to Tomcat') {
46
47   deploy adapters: [tomcat7(credentialsId: 'tomcatid', path: '', url: 'http://localhost:9000')]
48
49 }
50 }
```

☐ Use Groovy Sandbox

[Pipeline Syntax](#)

Save Apply

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Stage view after build:

## Pipeline Scripted Pipeline

[add description](#)

[Disable Project](#)



### Stage View

		Fetch source code	Sonar Analysis	Compile	Package	Install	Nexus upload	Deploy to Tomcat
Average stage times: (Average full run time: ~1min)		4s	24s	7s	8s	8s	2s	1s
#8	Jun 28 22:48 No Changes	3s	21s	6s	7s	7s	1s	1s
#7	Jun 28 22:46 No Changes	3s	21s	6s	8s	7s	1s	784ms failed

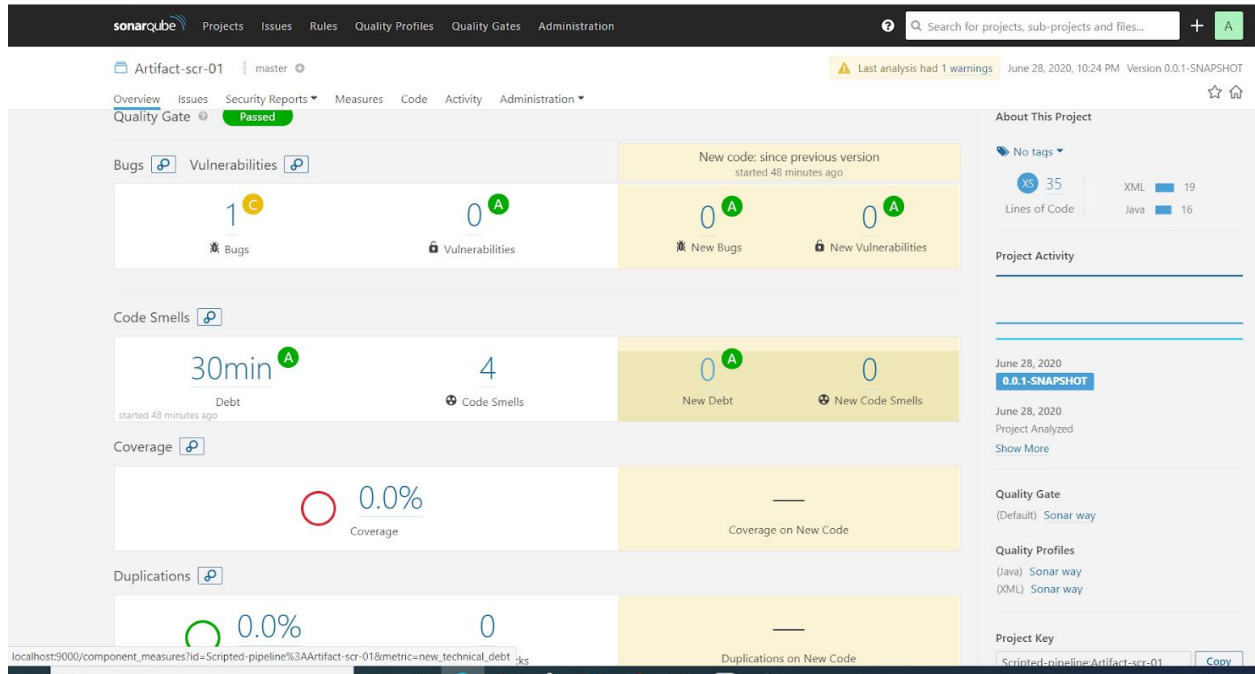
Output:

### Sonar Analysis:

```
Jenkins > Scripted Pipeline > #8
[INFO] Analysis report generated in 969ms, dir size=72 KB
[INFO] Analysis reports compressed in 39ms, zip size=13 KB
[INFO] Analysis report uploaded in 49ms
[INFO] ANALYSIS SUCCESSFUL, you can browse http://localhost:9000/dashboard?id=Scripted-pipeline%3AArtifact-scr-01
[INFO] Note that you will be able to access the updated dashboard once the server has processed the submitted analysis report
[INFO] More about the report processing at http://localhost:9000/api/ce/task?id=AXL78FX43e1xaCxe1TDA
[INFO] Task total time: 11.435 s
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 17.650 s
[INFO] Finished at: 2020-06-28T22:48:51+05:30
[INFO] -----
[Pipeline] }
```

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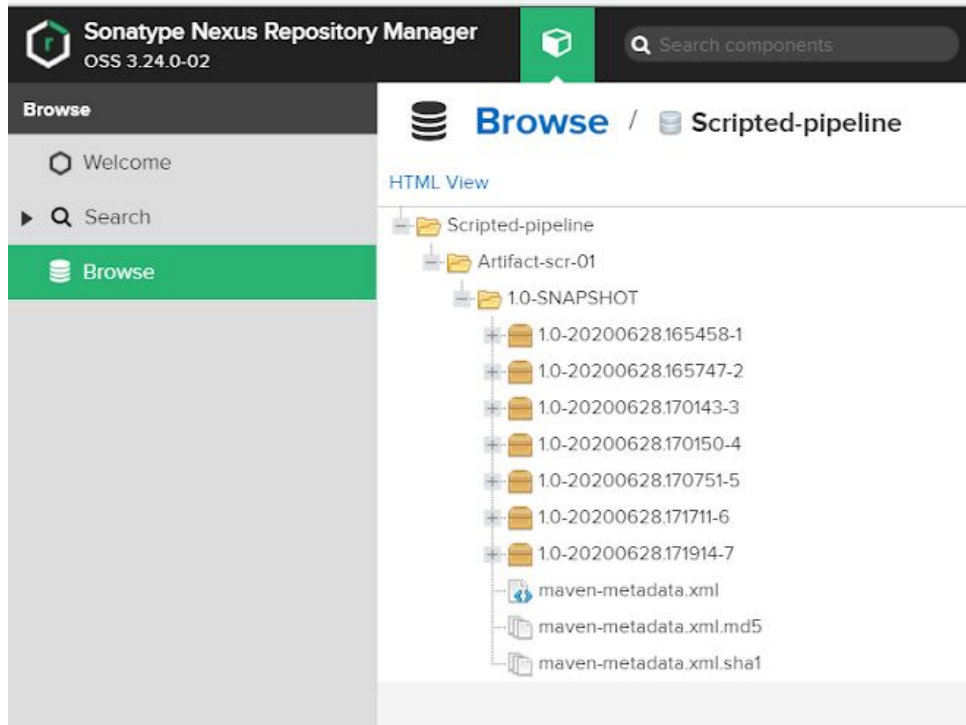
## Artifacts to Nexus:

```
Jenkins > Scripted Pipeline > #8

[Pipeline] HEADLESS CI/CD/CI/CD/CI/CD
Uploading artifact Artifact-scr-01-0.0.1-SNAPSHOT.war started....
GroupId: Scripted-pipeline
ArtifactId: Scripted-pipeline
Classifier:
Type: war
Version: 1.0-SNAPSHOT
File: Artifact-scr-01-0.0.1-SNAPSHOT.war
Repository:Scripted-pipeline
Downloading: http://localhost:8081/repository/Scripted-pipeline/Scripted-pipeline/Artifact-scr-01/1.0-SNAPSHOT/maven-metadata.xml
100 % completed (605 B / 605 B).
Downloaded: http://localhost:8081/repository/Scripted-pipeline/Scripted-pipeline/Artifact-scr-01/1.0-SNAPSHOT/maven-metadata.xml (605 B at 7.9 kB/s)
Uploading: http://localhost:8081/repository/Scripted-pipeline/Scripted-pipeline/Artifact-scr-01/1.0-SNAPSHOT/Artifact-scr-01-1.0-20200628.171914-7.war
Uploading: http://localhost:8081/repository/Scripted-pipeline/Scripted-pipeline/Artifact-scr-01/1.0-SNAPSHOT/Artifact-scr-01-1.0-20200628.171914-7.war (3.7 kB a
8.6 kB/s)
Uploading: http://localhost:8081/repository/Scripted-pipeline/Scripted-pipeline/Artifact-scr-01/1.0-SNAPSHOT/maven-metadata.xml
Uploading: http://localhost:8081/repository/Scripted-pipeline/Scripted-pipeline/Artifact-scr-01/1.0-SNAPSHOT/maven-metadata.xml (605 B at 894 B/s)
Uploading artifact Artifact-scr-01-0.0.1-SNAPSHOT.war completed.
[Pipeline] }
```

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## Deploy to Tomcat:

```

Uploaded: http://localhost:8081/repository/Scripted-pipeline/Scripted-pipeline/Artifact-scr-01/1.0-SNAPSHOT/maven-metadata.xml (605 B at 894 B/s)
Uploading artifact Artifact-scr-01-0.0.1-SNAPSHOT.war completed.
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Deploy to Tomcat)
[Pipeline] deploy
[DeployPublisher][INFO] Attempting to deploy 1 war file(s)
[DeployPublisher][INFO] Deploying C:\Users\ishaa\.jenkins\workspace\Scripted Pipeline\target\Artifact-scr-01-0.0.1-SNAPSHOT.war to container Tomcat 7.x Remote
context Scripted
  [C:\Users\ishaa\.jenkins\workspace\Scripted Pipeline\target\Artifact-scr-01-0.0.1-SNAPSHOT.war] is not deployed. Doing a fresh deployment.
  Deploying [C:\Users\ishaa\.jenkins\workspace\Scripted Pipeline\target\Artifact-scr-01-0.0.1-SNAPSHOT.war]
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS

```

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## Tomcat Web Application Manager

Message: OK

Manager		
<a href="#">List Applications</a>	<a href="#">HTML Manager Help</a>	<a href="#">Manager Help</a>

Applications					
Path	Version	Display Name	Running	Sessions	Commands
/	None specified	Welcome to Tomcat	true	0	Start Stop Reload Unde Expire sessions with idle ≥ 30
/Declarative-pipeline	None specified		true	0	Start Stop Reload Unde Expire sessions with idle ≥ 30
/MeetDevOps	None specified		true	0	Start Stop Reload Unde Expire sessions with idle ≥ 30
/Scripted	None specified		true	0	Start Stop Reload Unde Expire sessions with idle ≥ 30
/docs	None specified	Tomcat Documentation	true	0	Start Stop Reload Unde Expire sessions with idle ≥ 30
/examples	None specified	Servlet and JSP Examples	true	0	Start Stop Reload Unde

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