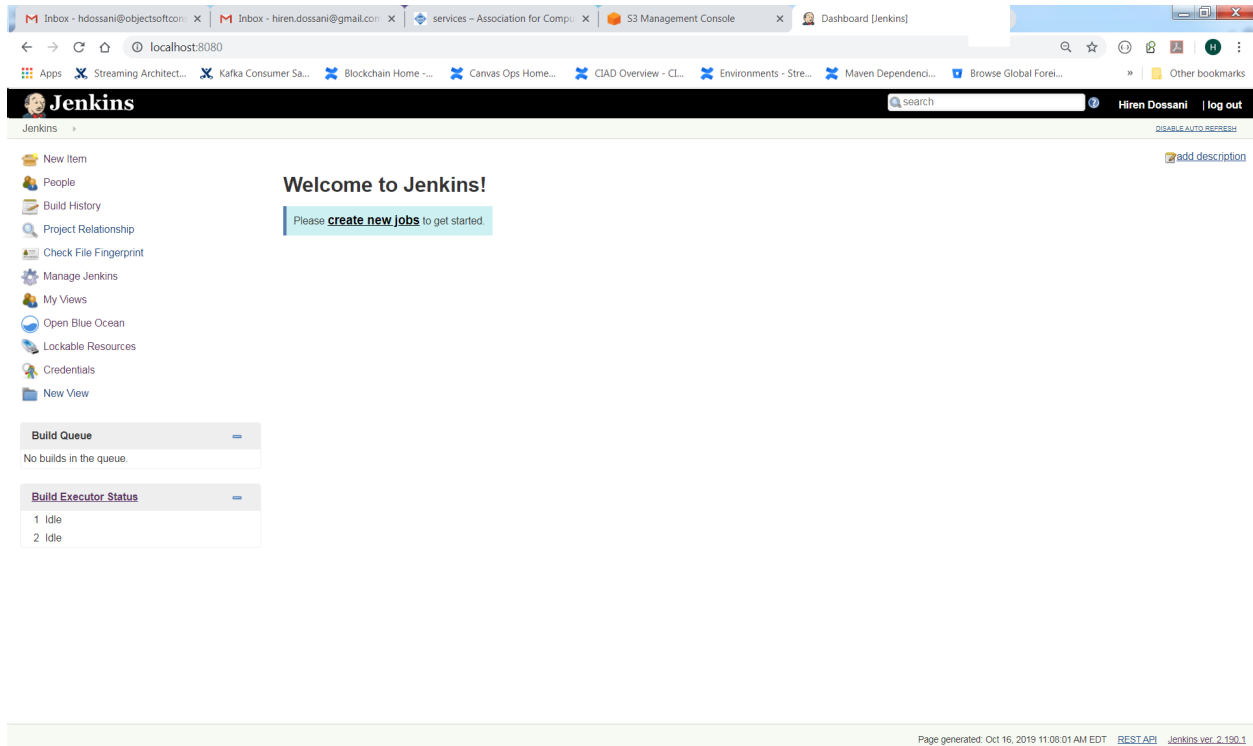


Jenkins Installation

Download latest version of Jenkins for Windows operating system from here : <https://jenkins.io/download/>

Install with all default values, suggested plugins and create an admin user. Login to Jenkins and you should see screen as below:

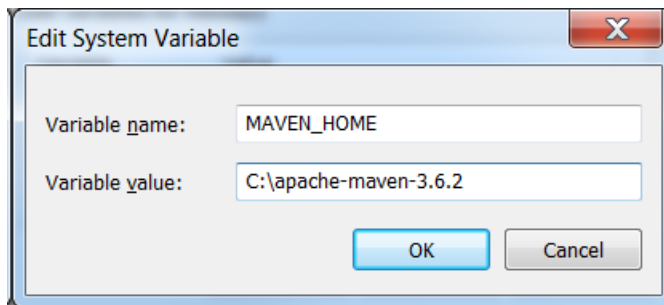


Maven Setup In Jenkins

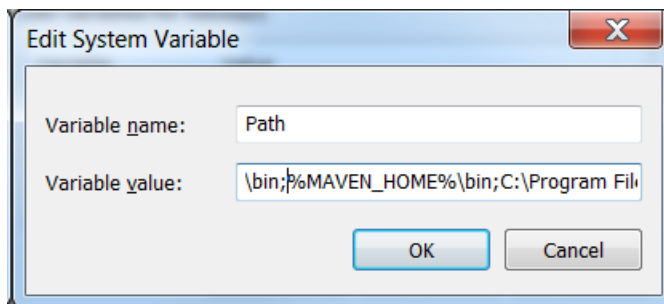
Download Apache Maven from <https://maven.apache.org/download.cgi>. Please download file apache-maven-3.6.2-bin.zip

Unzip the file to your C:\ drive and set MAVEN_HOME system variable as below.

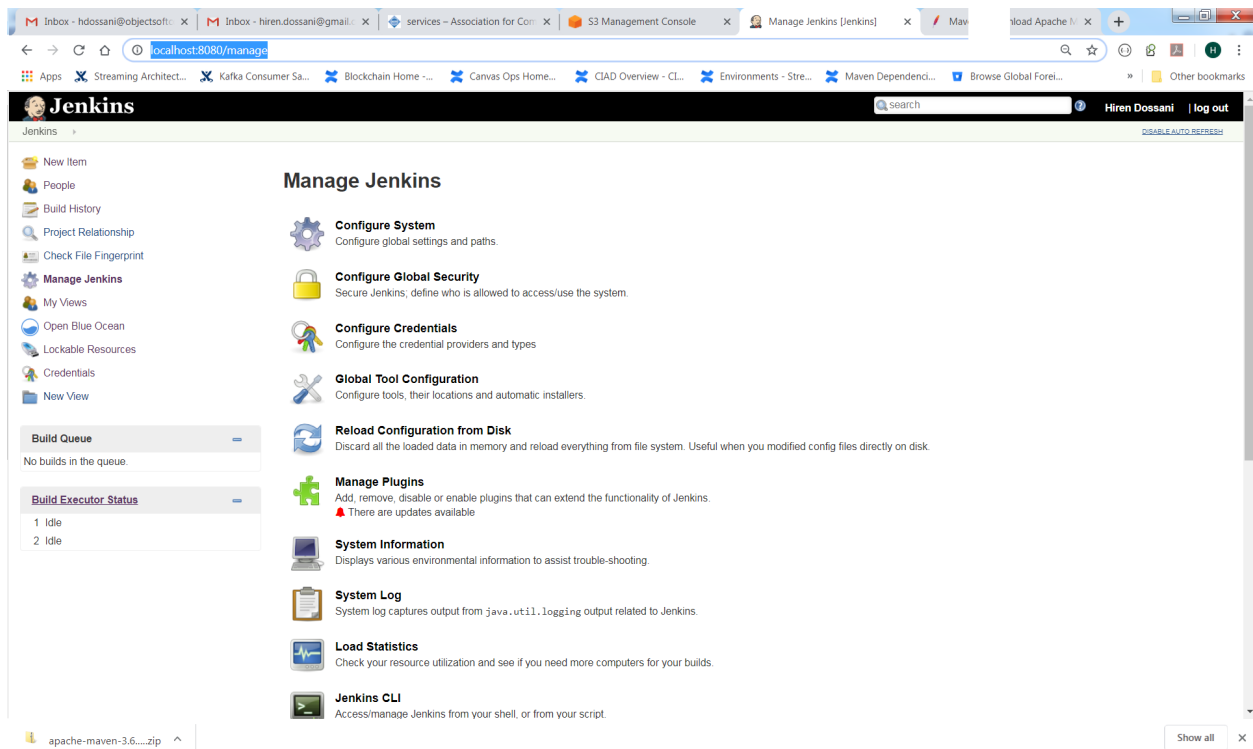




Set the Path variable to bin directory of MAVEN_HOME as shown below.



On Jenkins home page, Click on Manage Jenkins to see below screen



Click on Global Tool Configuration

Scroll down to Maven and click on Maven Installation

The screenshot shows the Jenkins Global Tool Configuration page. The 'Maven' section is expanded, showing the 'Add Maven' button. Below it, the 'Name' field is set to 'M3' and the 'MAVEN_HOME' field is set to 'C:\apache-maven-3.5.2'. The 'Install automatically' checkbox is checked. The 'Delete Maven' button is visible on the right. The 'Save' and 'Apply' buttons are at the bottom left. The page footer indicates it was generated on Oct 16, 2019 3:23:35 PM EDT, Jenkins ver. 2.190.1.

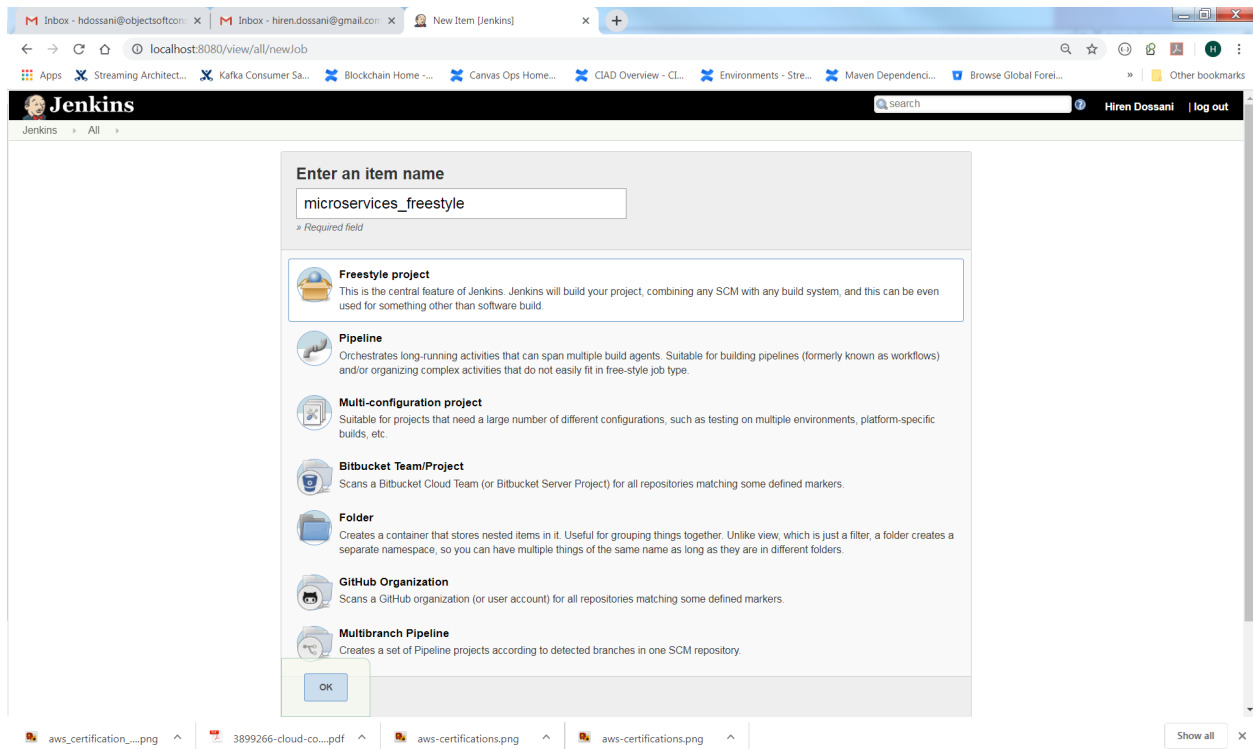
Add path to your maven installation directory and give a name to installation. Save the changes

This screenshot is identical to the previous one, showing the Jenkins Global Tool Configuration page with the 'Maven' section expanded. The 'Name' field is 'M3' and the 'MAVEN_HOME' field is 'C:\apache-maven-3.5.2'. The 'Install automatically' checkbox is checked. The 'Delete Maven' button is visible on the right. The 'Save' and 'Apply' buttons are at the bottom left. The page footer indicates it was generated on Oct 16, 2019 3:23:35 PM EDT, Jenkins ver. 2.190.1.



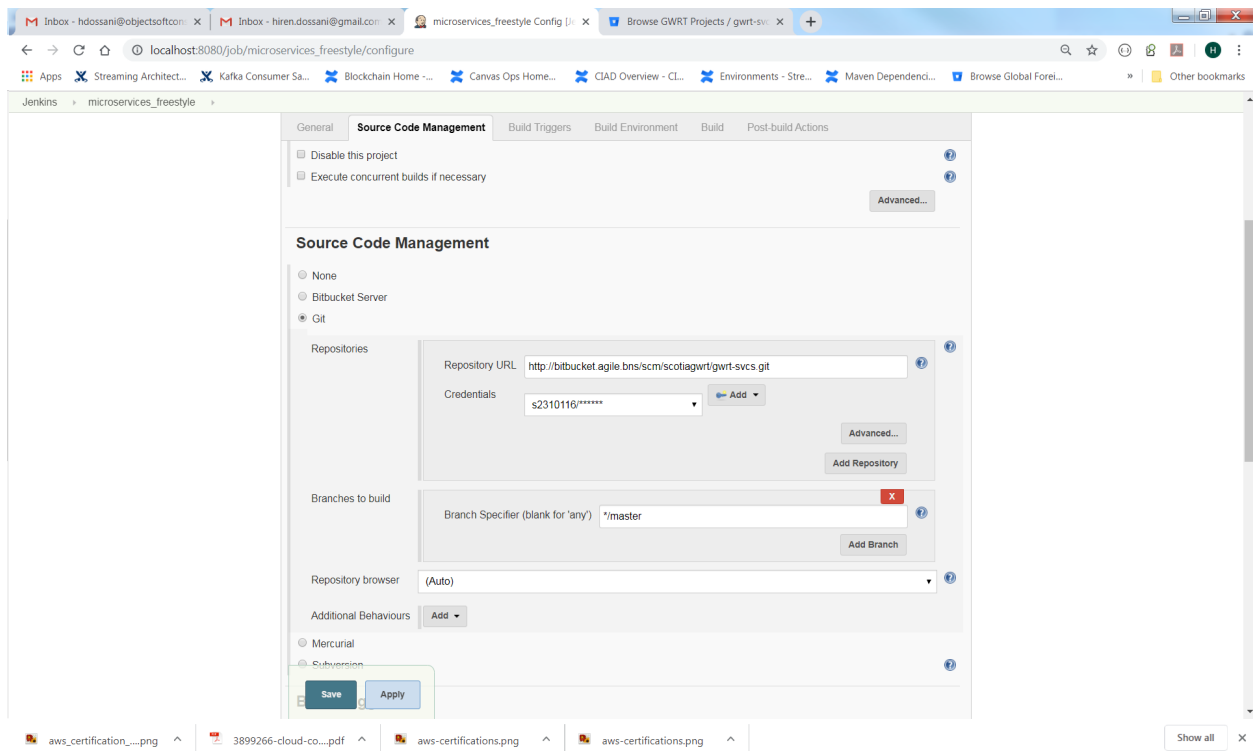
Create Job in Jenkins

Click on New Item on Jenkins home page. Enter job name and select Freestyle project. Click OK

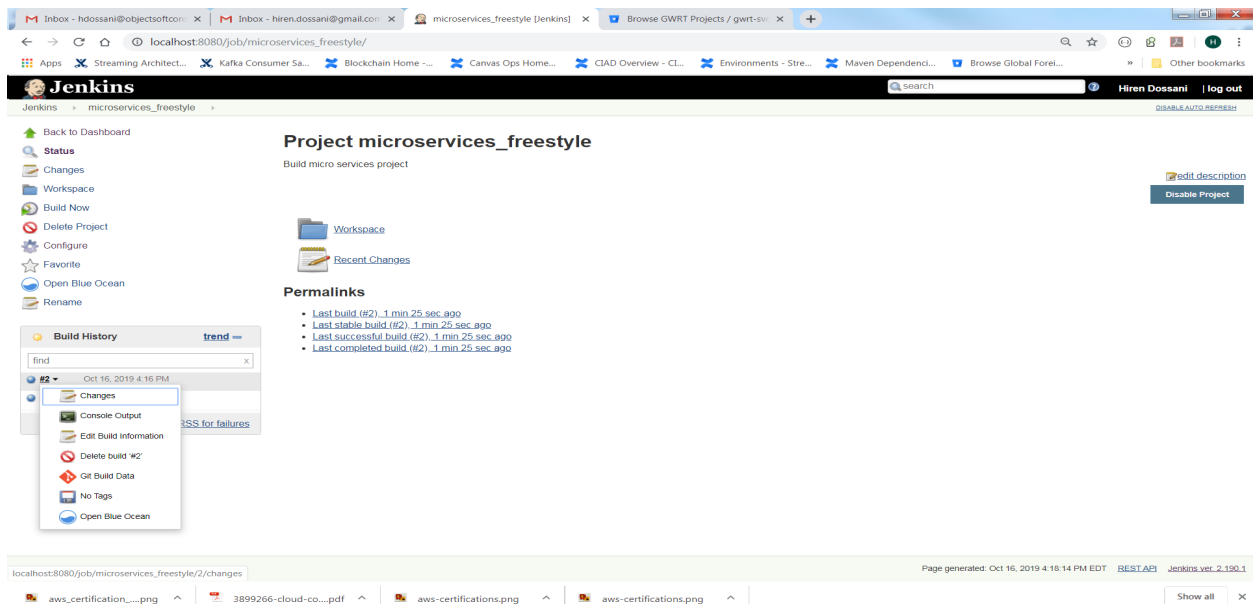


Enter Description under General tab and click on Source Code Management tab. Give the path to your Git repository and Add new user credentials for access. Specify the Branch name and Click on Save.



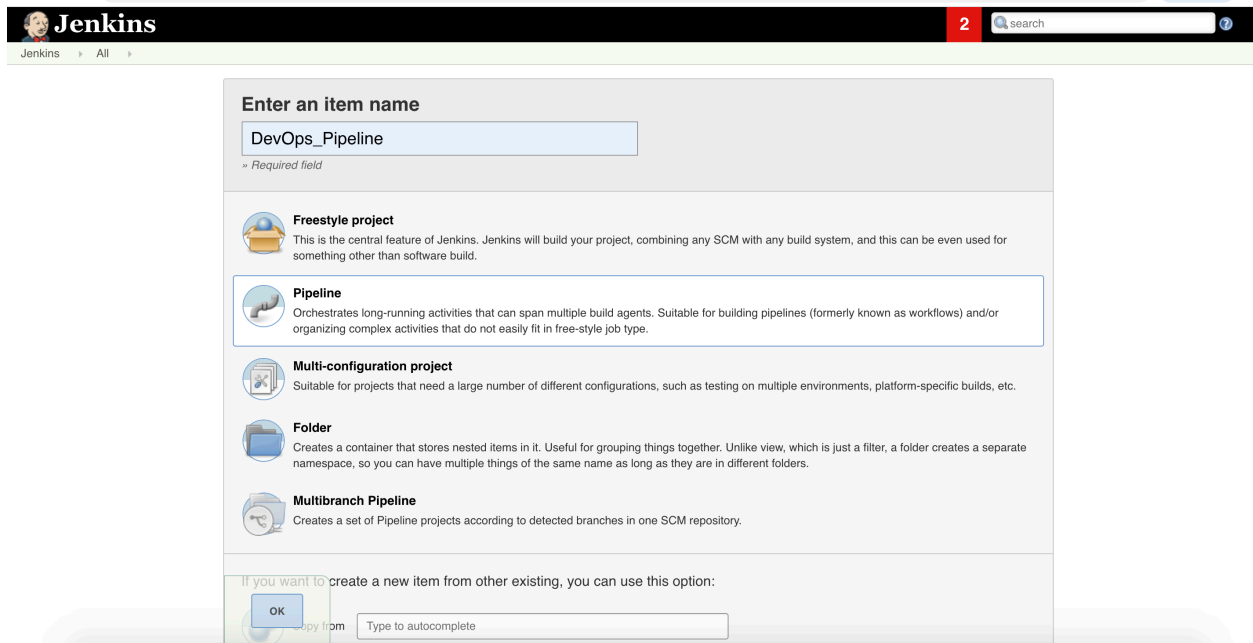


Click on Build Now on the project page and verify Console output



Create Pipeline Job in Jenkins

Click on New Item on Jenkins home page. Enter job name and select Pipeline project. Click OK



The screenshot shows the Jenkins 'New Item' dialog. The 'Enter an item name' field is filled with 'DevOps_Pipeline'. Below this, there are several project type options. The 'Pipeline' option is highlighted. The other options are 'Freestyle project', 'Multi-configuration project', 'Folder', and 'Multibranch Pipeline'. At the bottom, there is an 'OK' button and a 'Copy from' field with a placeholder 'Type to autocomplete'.

Enter below code in **Pipeline script**. Change credentialsId and git URL to match yours.

```
node {  
    def mvnHome  
    stage('Pull Code') { // for display purposes  
        // Get some code from a GitHub repository  
        git branch: 'master', credentialsId: 'hdossani', url: 'https://github.com/hdossani/  
devops_access.git'  
        // Get the Maven tool.  
        // ** NOTE: This 'M3' Maven tool must be configured  
        // **      in the global configuration.  
        mvnHome = tool 'M3'  
    }  
}
```



```

stage('Build Code') {
    // Run the maven build
    if (isUnix()) {
        sh "'${mvnHome}/bin/mvn' -Dmaven.test.failure.ignore clean package"
    } else {
        bat("/"${mvnHome}\bin\mvn" -Dmaven.test.failure.ignore clean package/)
    }
}

stage('Results') {
    junit '**/target/surefire-reports/TEST-*.xml'

    archiveArtifacts 'target/*.jar'
}
}

```

Under **Build Triggers** select Poll SCM and enter * * * * * to poll for changes in GitHub every minute.

Save the pipeline and Click on **Build Now** on project home page.

Jenkins 2

Jenkins > DevOps_Pipeline > [ENABLE AUTO REFRESH](#)

[Back to Dashboard](#)

[Status](#)

[Changes](#)

[Build Now](#)

[Delete Pipeline](#)

[Configure](#)

[Full Stage View](#)

[Rename](#)

[Pipeline Syntax](#)

[Polling Log](#)

Build History [trend](#)

find x

#1 Oct 20, 2019, 9:42 PM

[RSS for all](#) [RSS for failures](#)

Pipeline DevOps_Pipeline

[Recent Changes](#)

Stage View

Average stage times:
(Average full run time: ~10s)

	Pull Code	Build Code	Results
#1	705ms	9s	240ms

Oct 20 21:42 No Changes

Permalinks

