



AUTOMATION OF DATAPOWER WITH DCM USING ANTSCRIPT

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1.DataPower Configuration manager

1.1 Introduction:

The purpose of this document is to describe the implementation of continuous Delivery attempt with WebSphere DataPower through Jenkins; GitHub serves as the source control in this implementation. Since Automation, Continuous Delivery and Dev Ops saves you time and lets you incorporate your project into the Continuous Integration(CI) process, many organizations are keen on the implementation in their development and delivery process.

- Advantages of Continuous Integration Testing
- When tests fail or bugs emerge, developers can revert the codebase to a bug-free state without wasting time for debugging.
- Developers detect and fix integration problems continuously – and thus avoid last-minute chaos at release dates.
- Early warning of broken/incompatible code.
- Early warning of conflicting changes.
- Immediate testing of all changes.
- Constant availability of a “current” build for testing, demo, or release purposes.
- Immediate feedback to developers on the quality, functionality, or system-wide impact of their written code.
- Frequent code check-ins push developers to create modular, less complex code.

DCM is core for the implementation of Continuous Integration and Deployment through Jenkins. DCM (**DataPower Configuration Manager**) is an open source tool published by IBM for automating and simplifying the configuration and management of IBM DataPower appliances (with the exception of the XC10).

DCM uses DataPower's XML Management Interface (XMI) to interact and manipulate appliance's management tasks in automated fashion.

DCM is a package for dealing with IBM DataPower configuration management. It provides an Ant-based command line tool.

1.1.Apache-Ant:

- ➔ Ant is a Java-based build tool with the full portability of pure Java code.
- ➔ The name is an acronym for "**Another Neat Tool**".
- ➔ Initially, Ant was part of the Tomcat code base, when it was donated to the Apache Software Foundation. It was created by James Duncan Davidson, who is also the original author of Tomcat. Ant was there to build Tomcat, nothing else.
- ➔ Soon thereafter, several open source Java projects realized that Ant could solve the problems they had with Make files. Starting with the projects hosted at Jakarta and the old Java Apache project, Ant spread like a virus and is now the build tool of choice for a lot of projects.
- ➔ In January 2000, Ant was moved to a separate CVS module and was promoted to a project of its own, independent of Tomcat, and became Apache Ant.

1.2.Targets:

A target is a **set of tasks** you want to be executed. A target can depend on other targets. For Example, You might have a target for compiling, and a target for creating a distributable. You can only build a distributable when you have compiled first, so the distribute target depends on the compile target. Ant resolves these dependencies.

1.3.Properties:

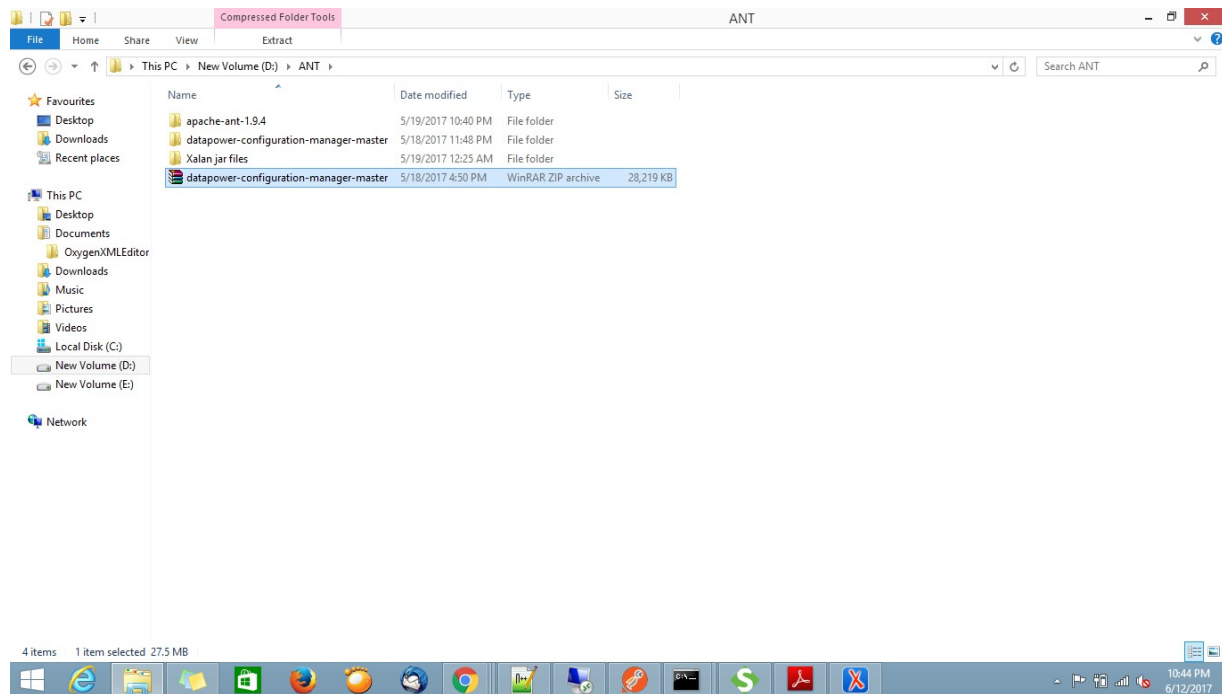
Properties are an important way to customize a build process or to just provide shortcuts for strings that are used repeatedly inside a build file.

2.Process of using DCM with ANT:

2.1:Download DCM Package:

Download DCM package from the below link and extract it .

<https://blogs.perficient.com/ibm/2015/01/12/datapower-configuration-management-tool-part-i/>



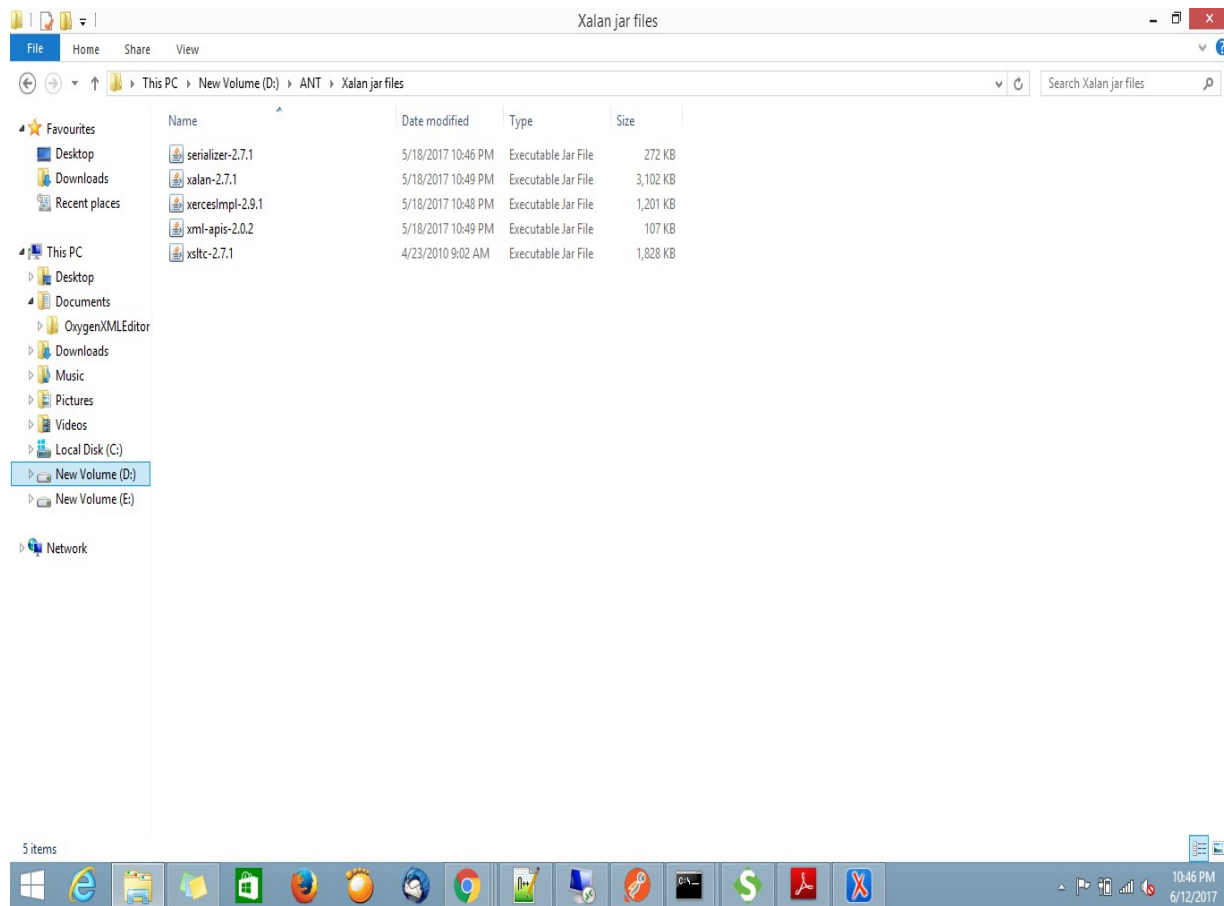
2.3:Download the jar files:

Download the jar files:

serializer-2.7.1.jar
xalan-2.7.1.jar,
xercesImpl-2.9.1.jar,
xml-apis-2.0.2.jar,
xsltc-2.7.1.jar

You will get these jars from the below link

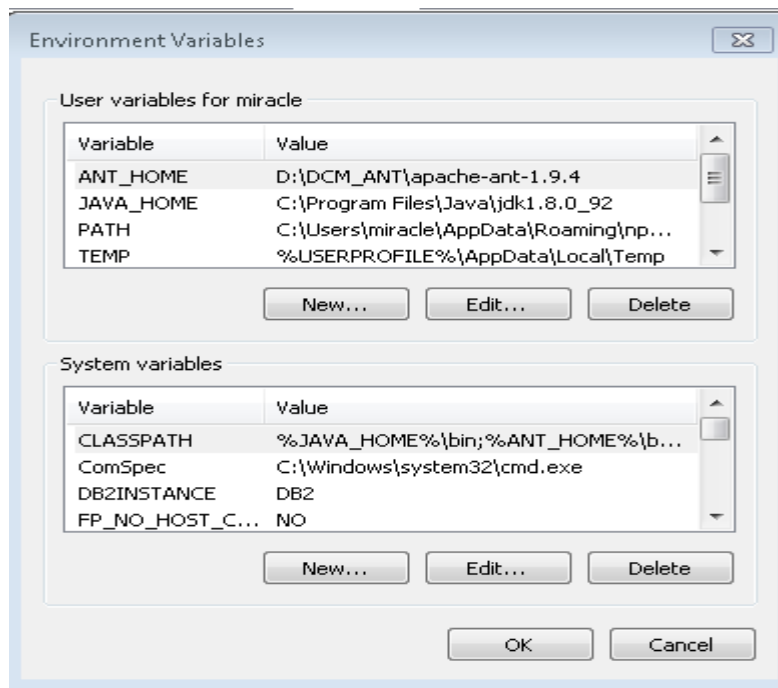
<http://java2s.com/Code/Jar/x/Downloadxalanjar.htm>



2.4:Setting the Path:

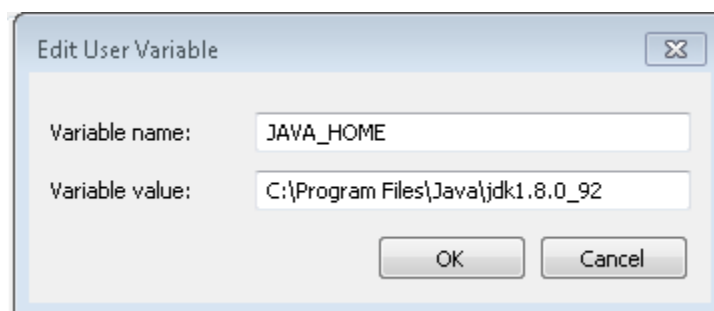
Set the path for **java**, **Ant** and **Jars** as shown below :

My computer - > Properties - >Advanced settings - >Environment variables

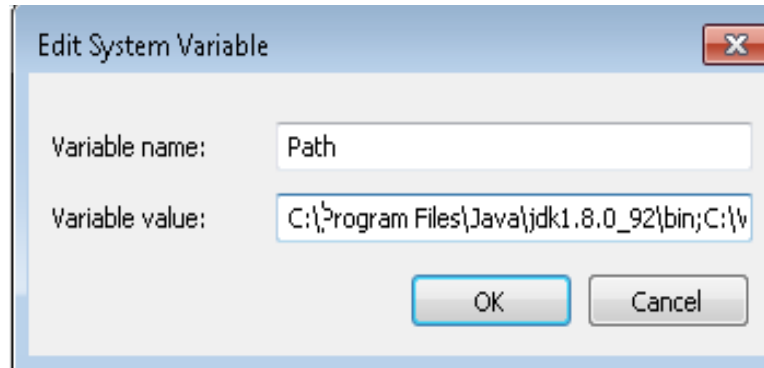


2.4.1: Path for Java:

Select C:\Program Files\Java\jdk1.8.0_92 and paste in JAVA_HOME.



Select C:\Program Files\Java\jdk1.8.0_92\bin and paste in Path.

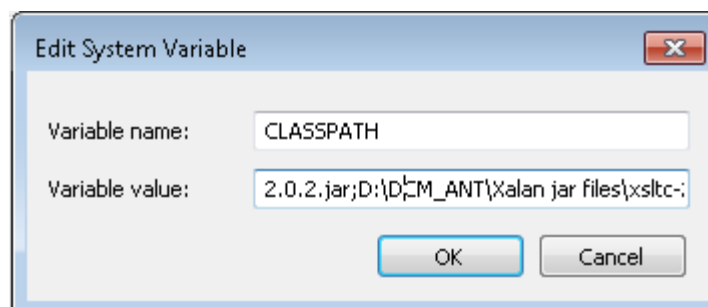


2.4.2:Path for Jars:

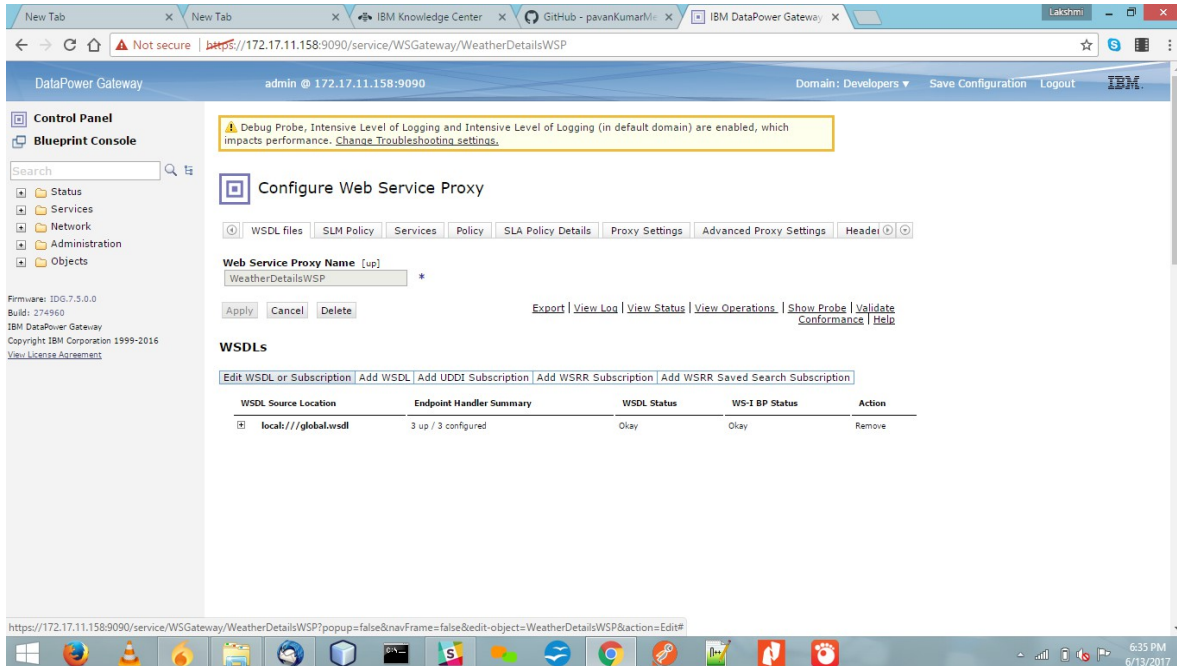
Select D:\DCM_ANT\Xalan jar files paste it in CLASSPATH.

Note:specify all the 5 jar files path **individually** in CLASSPATH such as

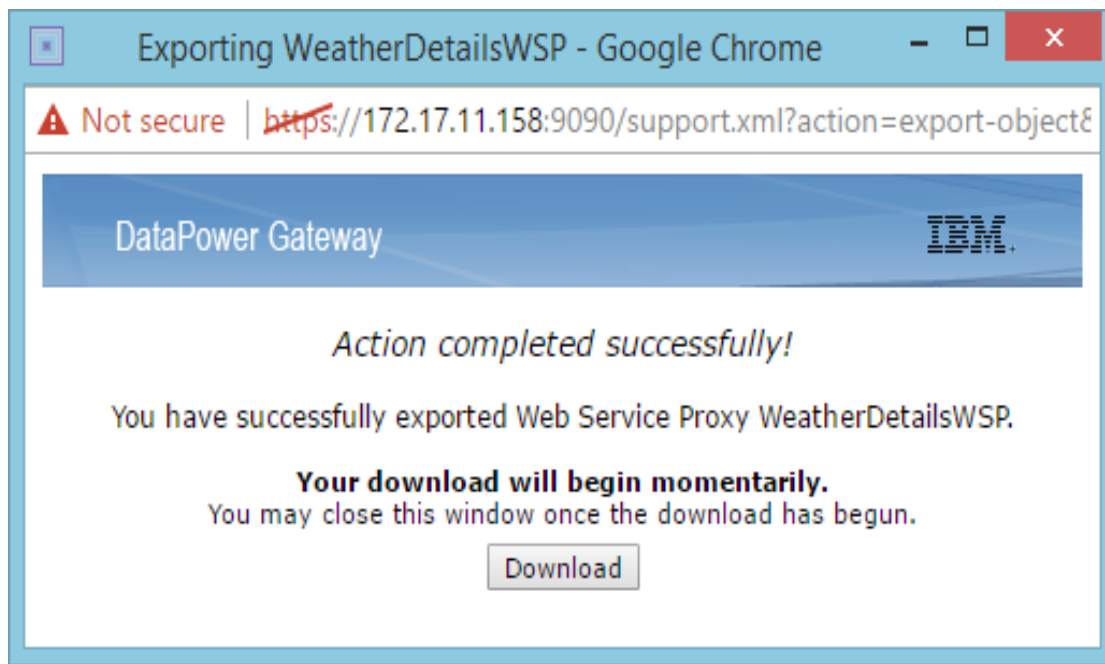
D:\DCM_ANT\Xalanjarfiles\serializer-2.7.1.jar;D:\DCM_ANT\Xalanjarfiles\xalan-2.7.1.jar;D:\DCM_ANT\Xalan jar files\xercesImpl-2.9.1.jar;D:\DCM_ANT\Xalan jar files\xml-apis-2.0.2.jar;D:\DCM_ANT\Xalan jar files\xslt-2.7.1.jar;



Export the service from datapower



You can download the service to local machine as below



Service exported from datapower is pushed into Git .

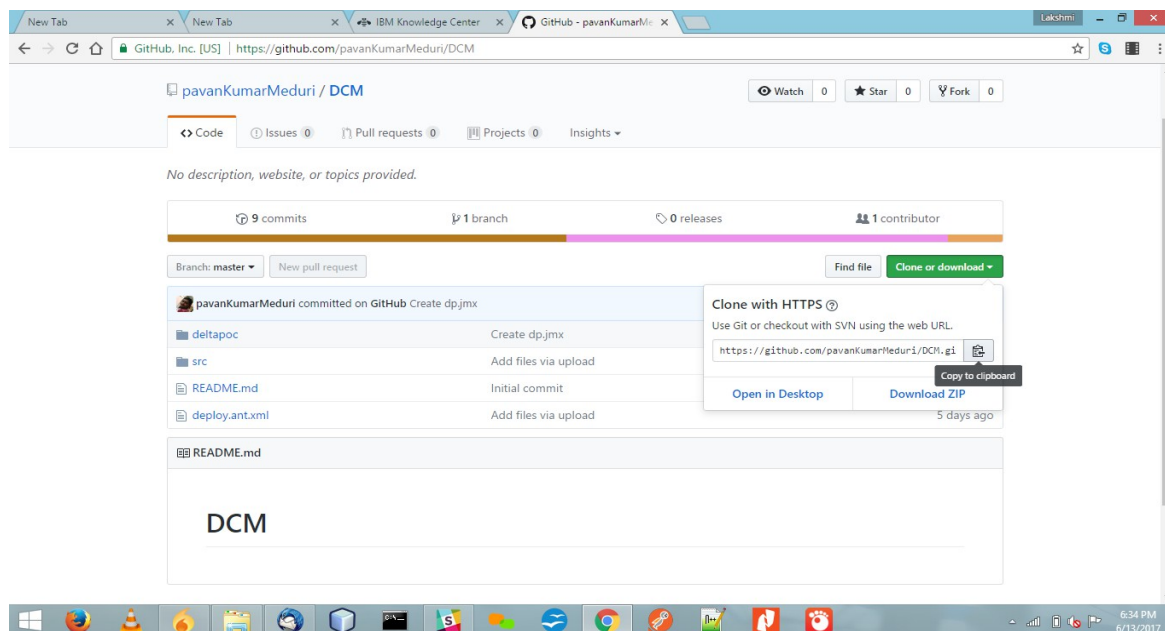
3.GitHub:

The GitHub plugin for Jenkins is the most basic plugin for integrating Jenkins with GitHub projects. If you are a GitHub user, this plugin enables you to schedule your build, pull your code and data files from your GitHub repository to your Jenkins machine, and automatically trigger each build on the Jenkins server after each Commit on your Git repository.

This saves you time and lets you incorporate your project into the Continuous Integration (CI) process.

Why we use something like Git? Say you and a coworker are both updating pages on the same website. You make your changes, save them, and upload them back to the website. So far, so good. The problem comes when your coworker is working on the same page as you at the same time. One is about to have your work overwritten and erased.

A version control application like Git keeps that from happening. You and your coworker can each upload your revisions to the same page, and Git will save two copies. Later, you can merge your changes together without losing any work along the way. You can even revert to an earlier version at any time, because Git keeps a “snapshot” of every change ever made.



4.Jenkins

4.1 About Jenkins :

Jenkins is an [open source](#) automation server written in [Java](#). The project was [forked](#) from [Hudson](#) after a dispute with [Oracle](#)

Jenkins helps to automate the **non-human** part of software development process,with continues integration(CI) and facilitating technical aspects of continues delivery. It is a sever-based system that runs in servelet containers such as Apache Tomcat. It supports version control tools including CVS,Subversion,Git,Clear-Case and can execute Apache-Ant,Apache Maven as well as arbitrary shell scripts and windows batch commands.

4.2Jenkins Installation:

For the Jenkins installation we need to download Jenkins.war file or jenkins.exe(for windows).Here we are using .war file.

Download the Jenkins war file from the below link

<https://jenkins.io/download/>

cmd: Java -jar jenkins.war

Note:Before running the above command first we need to change the specified directory where Jenkins.war file is placed.

```
Microsoft Windows [Version 6.1.7600]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\miracle>cd D:\>java -jar jenkins.war
The system cannot find the path specified.

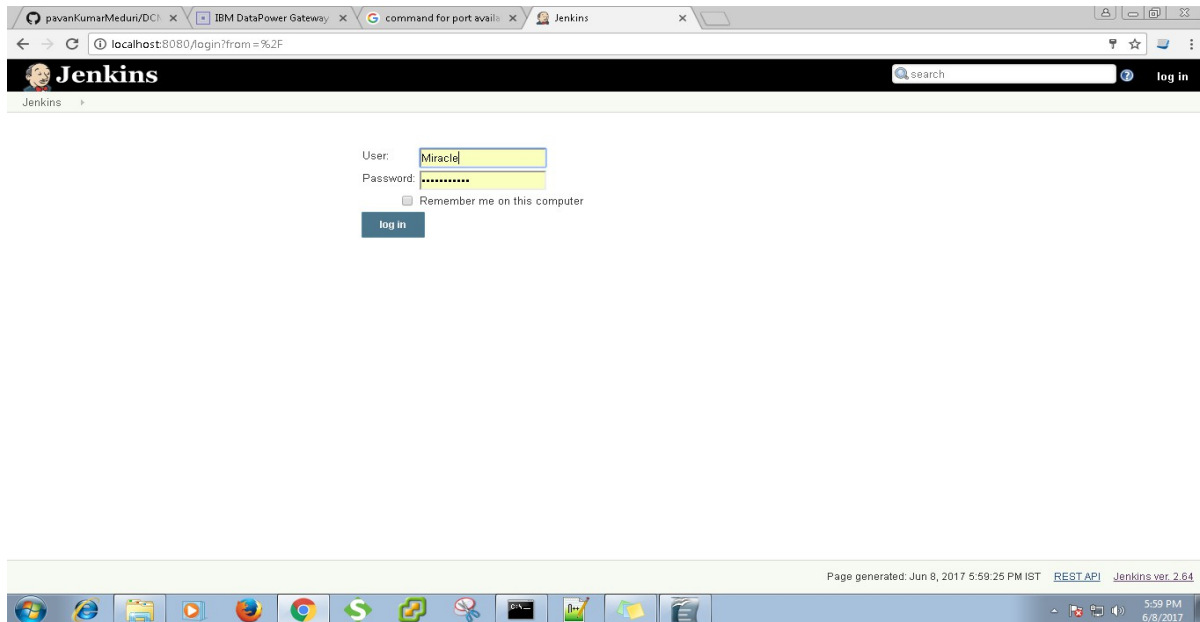
C:\Users\miracle>D:

D:\>D:\>java -jar jenkins.war
'D:\' is not recognized as an internal or external command,
operable program or batch file.

D:\>java -jar jenkins.war
Running from: D:\jenkins.war
webroot: $user.home/.jenkins
+I33mJun 13, 2017 3:10:50 AM Main deleteWinstoneTempContents
WARNING: Failed to delete the temporary Winstone file C:\Users\miracle\AppData\Local\Temp\winstone\jenkins.war
+I0mJun 13, 2017 3:10:51 AM org.eclipse.jetty.util.log.Log initialized
INFO: Logging initialized @1778ms to org.eclipse.jetty.util.log.JavaUtilLog
Jun 13, 2017 3:10:51 AM winstone.Logger logInternal
INFO: Beginning extraction from war file
+I33mJun 13, 2017 3:10:51 AM org.eclipse.jetty.server.handler.ContextHandler setContextPath
WARNING: Empty contextPath
+I0mJun 13, 2017 3:10:51 AM org.eclipse.jetty.server.Server doStart
INFO: jetty-9.4.z-SNAPSHOT
Jun 13, 2017 3:10:53 AM org.eclipse.jetty.webapp.StandardDescriptorProcessor visitServlet
INFO: NO JSP Support for /, did not find org.eclipse.jetty.jsp.JettyJspServlet
Jun 13, 2017 3:10:53 AM org.eclipse.jetty.server.session.DefaultSessionIdManager doStart
INFO: DefaultSessionIdManager workerName=node0
Jun 13, 2017 3:10:53 AM org.eclipse.jetty.server.session.DefaultSessionIdManager doStart
INFO: No SessionScavenger set, using defaults
Jun 13, 2017 3:10:53 AM org.eclipse.jetty.server.session.HouseKeeper startScavenging
INFO: Scavenging every 660000ms
Jenkins home directory: C:\Users\miracle\.jenkins found at: $user.home/.jenkins
Jun 13, 2017 3:10:55 AM org.eclipse.jetty.server.handler.ContextHandler doStart
INFO: Started w.05386659f</file:///C:/Users/miracle/.jenkins/war/,AVAILABLE><C:\Users\miracle\.jenkins\war>
Jun 13, 2017 3:10:55 AM org.eclipse.jetty.server.AbstractConnector doStart
INFO: Started ServerConnector@73eb439a<HTTP/1.1,[http/1.1]><0.0.0.0:8080>
Jun 13, 2017 3:10:55 AM org.eclipse.jetty.server.Server doStart
INFO: Started @6098ms
Jun 13, 2017 3:10:55 AM winstone.Logger logInternal
INFO: Winstone Servlet Engine v4.0 running: controlPort=disabled
Jun 13, 2017 3:10:56 AM jenkins.InitReactorRunner$1 onAttained
INFO: Started initialization
Jun 13, 2017 3:11:03 AM jenkins.InitReactorRunner$1 onAttained
INFO: Listed all plugins
Jun 13, 2017 3:11:09 AM jenkins.InitReactorRunner$1 onAttained
INFO: Prepared all plugins
Jun 13, 2017 3:11:09 AM jenkins.InitReactorRunner$1 onAttained
INFO: Started all plugins
```

Run the Jenkins through cmd and it opens on localhost in browser. Then we need to create an account in jenkins.

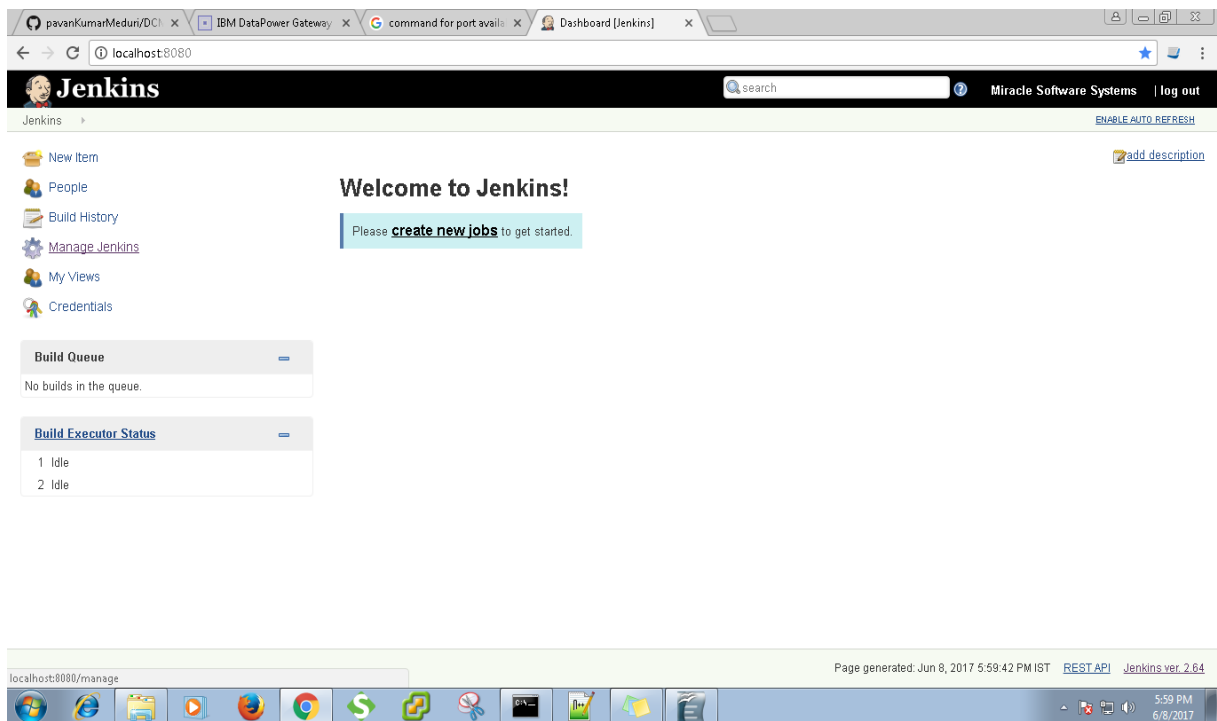
Login to Jenkins with the credentials.

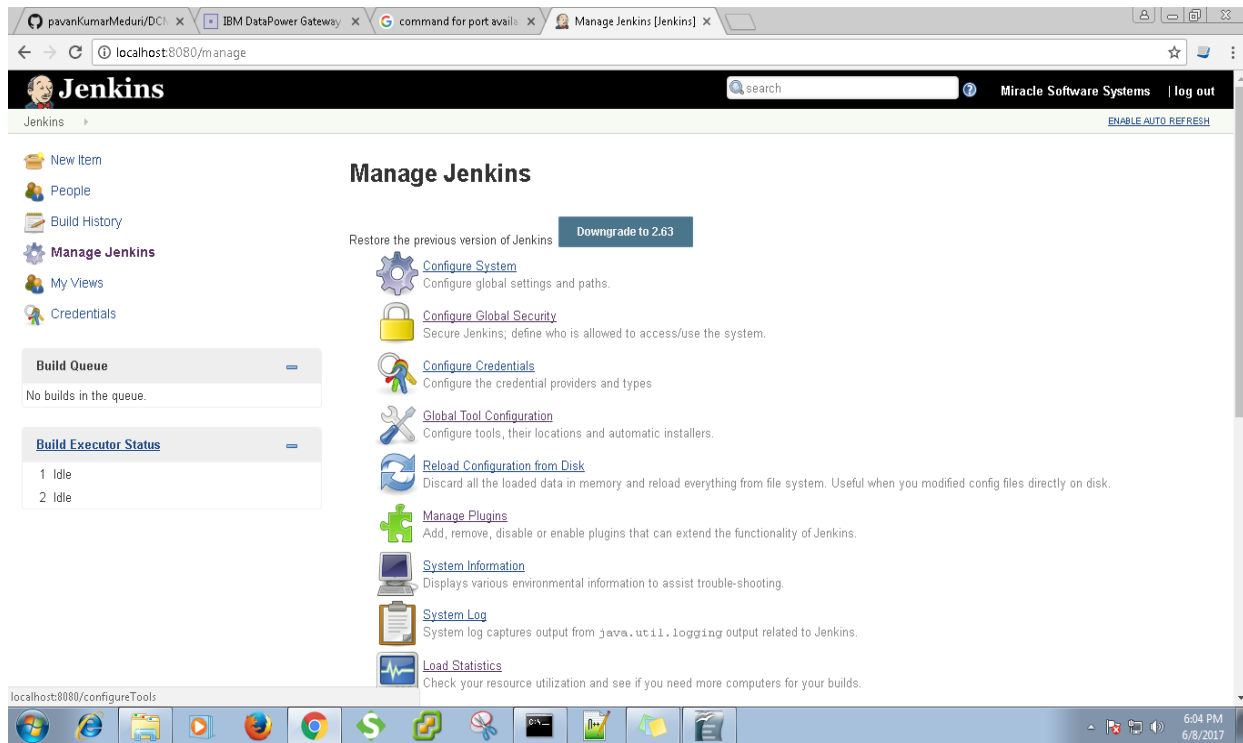


Welcome page will be displayed and you can create new jobs here

Click on **Manage jenkins** → **Manage Plugins**

Here we you can install various plugins required externally as well internally.





As per our requirement we installed **GIT Plugin, Performance Plugin, Ant plugin.**

After installing all required plug-ins we need to configure tools. For that we need to move to the Jenkins_Home page.

This screenshot shows the Jenkins Update Center interface. The browser tabs include 'pavanKumarMeduri/DCI', 'IBM DataPower Gateway', 'command for port avail', and 'Update Center [Jenkins]'. The address bar shows 'localhost:8080/pluginManager/installed'. The page title is 'Jenkins > Plugin Manager'. A list of installed plugins is displayed, each with a checkbox, a description, a version number, and an 'Uninstall' button. The plugins listed are:

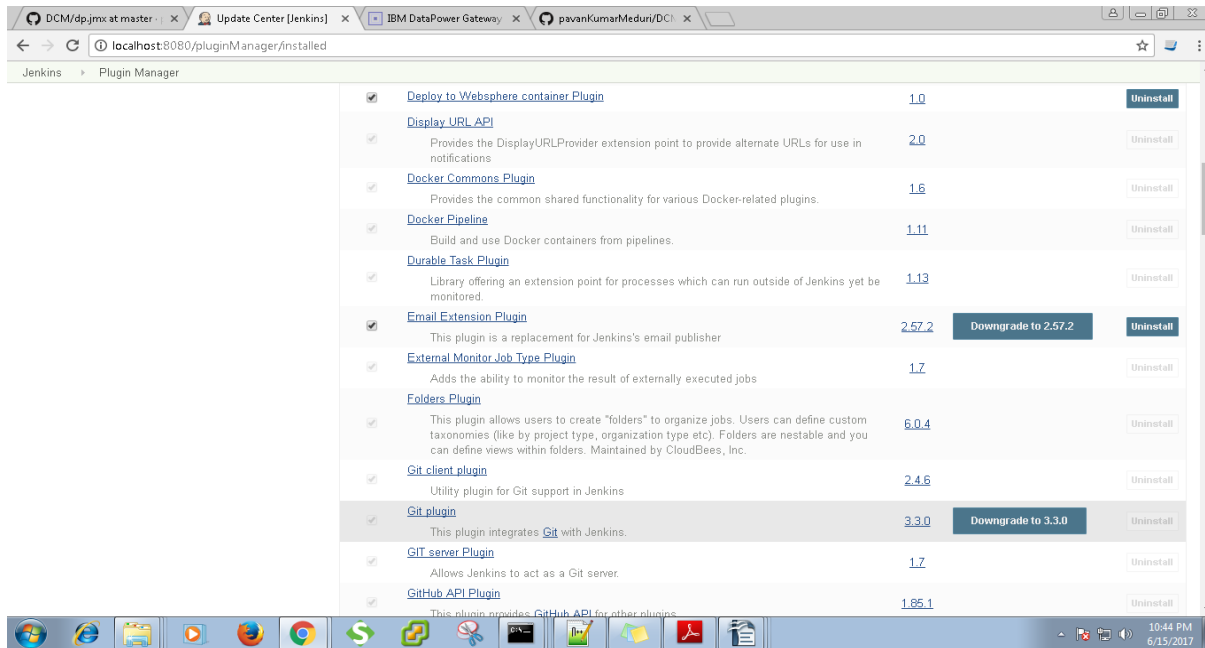
- OWASP Markup Formatter Plugin** (Version 1.5): Uses the OWASP Java HTML Sanitizer to allow safe-seeming HTML markup to be entered in project descriptions and the like.
- PAM Authentication plugin** (Version 1.3): Adds Unix Pluggable Authentication Module (PAM) support to Jenkins.
- Performance Plugin** (Version 3.1): This plugin integrates JMeter reports, JUnit reports, wrk output, and Iago reports into Hudson.
- Pipeline** (Version 2.5): A suite of plugins that lets you orchestrate automation, simple or complex. See Pipeline as Code with Jenkins for more details.
- Pipeline Graph Analysis Plugin** (Version 1.4): Provides a REST API to access pipeline and pipeline run data.
- Pipeline API** (Version 2.17): Plugin that defines Pipeline API.
- Pipeline: Basic Steps** (Version 2.5): Commonly used steps for Pipelines.
- Pipeline: Build Step** (Version 2.5): Adds the Pipeline step build to trigger builds of other jobs.
- Pipeline: Declarative Agent API** (Version 1.1.1): Replaced by Pipeline: Declarative Extension Points API plugin.
- Pipeline: Declarative Extension Points API** (Version 1.1.4): APIs for extension points used in Declarative Pipelines.
- Pipeline: GitHub Groovy Libraries** (Version 1.0): Allows Pipeline Groovy libraries to be loaded on the fly from GitHub. (Buttons: Downgrade to 1.0, Uninstall)
- Pipeline: Groovy** (Version 2.34): Pipeline execution engine based on continuation passing style transformation of Groovy.

The Windows taskbar at the bottom shows the time as 6:03 PM on 6/8/2017.

This screenshot shows the Jenkins Dashboard. The browser tabs include 'DCM/dp.jmx at master', 'Update Center [Jenkins]', 'IBM DataPower Gateway', and 'pavanKumarMeduri/DCI'. The address bar shows 'localhost:8080/pluginManager/installed'. The page title is 'Jenkins'. The dashboard includes a search bar, a 'Miracle Software Systems' logo, and a 'log out' link. Below the header, there are links for 'Back to Dashboard' and 'Manage Jenkins'. A filter input is present. The main content area shows a table of installed plugins, with tabs for 'Updates', 'Available', 'Installed', and 'Advanced'. The 'Installed' tab is selected, showing a list of plugins with columns for 'Enabled', 'Name', 'Version', 'Previously installed version', and 'Uninstall'.

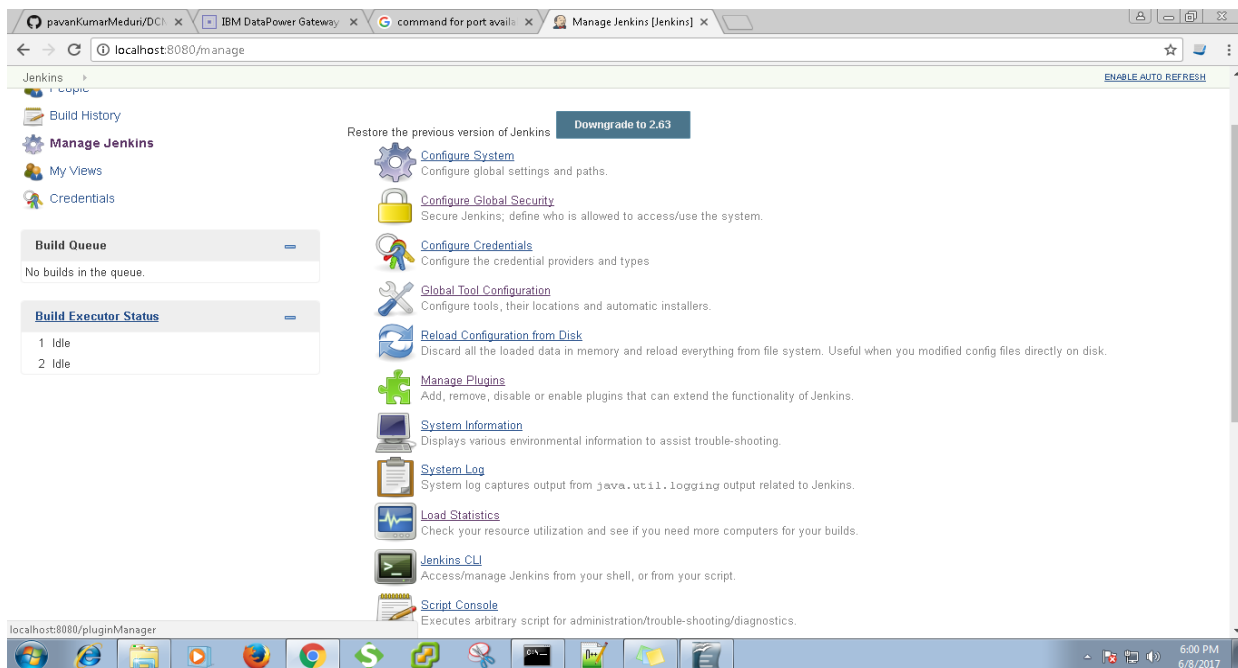
Enabled	Name	Version	Previously installed version	Uninstall
<input checked="" type="checkbox"/>	Ant Plugin Adds Apache Ant support to Jenkins	1.5		Uninstall
<input checked="" type="checkbox"/>	AppDynamics Dashboard Plugin for Jenkins This plugin makes it possible to integrate data from AppDynamics into your Jenkins build. A performance test should be run during build time (e.g. by using JMeter), and having AppDynamics connected to your application. After the build, the performance statistics will be fetched from the REST uri and shown in the Jenkins interface.	1.0.14		Uninstall
<input checked="" type="checkbox"/>	Authentication Tokens API Plugin This plugin provides an API for converting credentials into authentication tokens in Jenkins.	1.3		Uninstall
<input checked="" type="checkbox"/>	bouncycastle API Plugin This plugin provides a stable API to Bouncy Castle related tasks.	2.16.1		Uninstall
<input checked="" type="checkbox"/>	Branch API Plugin This plugin provides an API for multiple branch based projects.	2.0.9		Uninstall
<input checked="" type="checkbox"/>	build timeout plugin This plugin allows builds to be automatically terminated after the specified amount of time has elapsed.	1.18		Uninstall
<input checked="" type="checkbox"/>	CLIF Performance Testing This plugin adds Clif support to Jenkins.	1.0.1		Uninstall
	Credentials Binding Plugin			

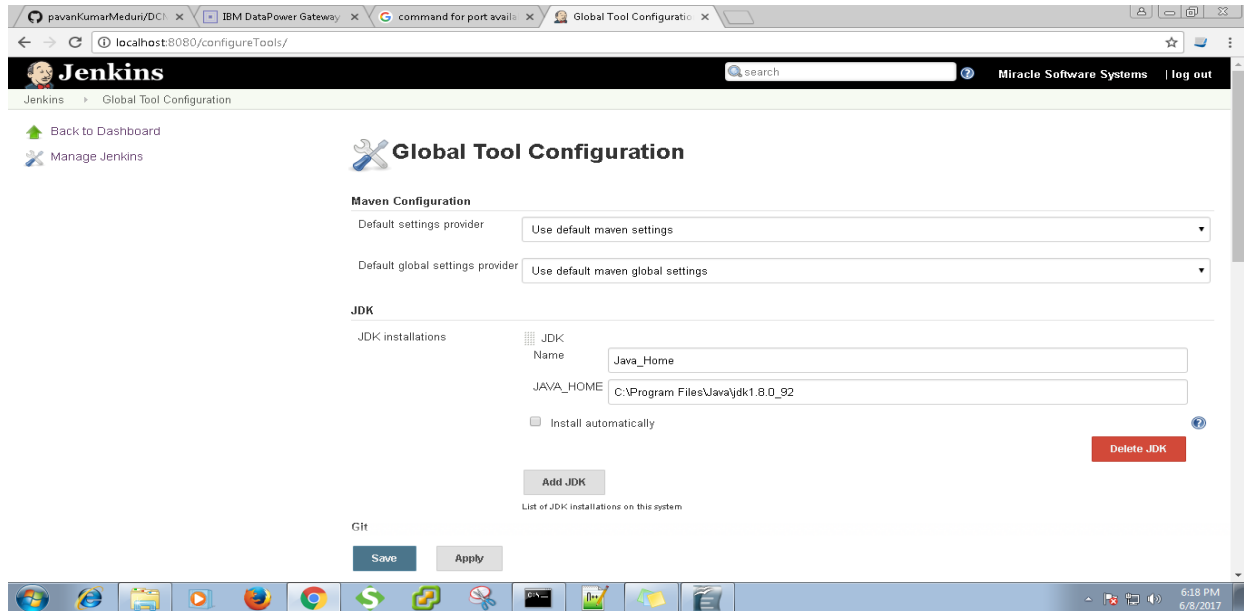
The Windows taskbar at the bottom shows the time as 10:43 PM on 6/15/2017.



jenkins_Home → Manage Jenkins → Global Tool Configurations

As per our requirement we need to configure JAVA, Git-Hub, Ant.





The screenshot shows the Jenkins web interface at localhost:8080/configureTools/. The page title is "Global Tool Configuration". On the left, there are links for "Back to Dashboard" and "Manage Jenkins". The main content area is divided into sections for "Maven Configuration", "JDK", and "Git". Under "Maven Configuration", there are dropdowns for "Default settings provider" and "Default global settings provider", both set to "Use default maven settings". Under "JDK", there is a table of "JDK installations" with one entry: "Java_Home" with "JAVA_HOME" set to "C:\Program Files\Java\jdk1.8.0_92". There is a checkbox for "Install automatically" and buttons for "Add JDK" and "Delete JDK". Under "Git", there is a section for "List of JDK installations on this system" and buttons for "Save" and "Apply". The bottom of the browser window shows a Windows taskbar with various application icons and a system clock showing 6:18 PM on 6/8/2017.

Ant

Ant installations

Ant	Name	ANT
<input checked="" type="checkbox"/>	Install automatically	
Install from Apache	Version	1.10.1
Add Installer		Delete Installer
Add Ant		Delete Ant
List of Ant installations on this system		

Git

Git installations



Git

Name

Default

Path to Git executable

C:\Program Files\Git\bin\git.exe



Install automatically

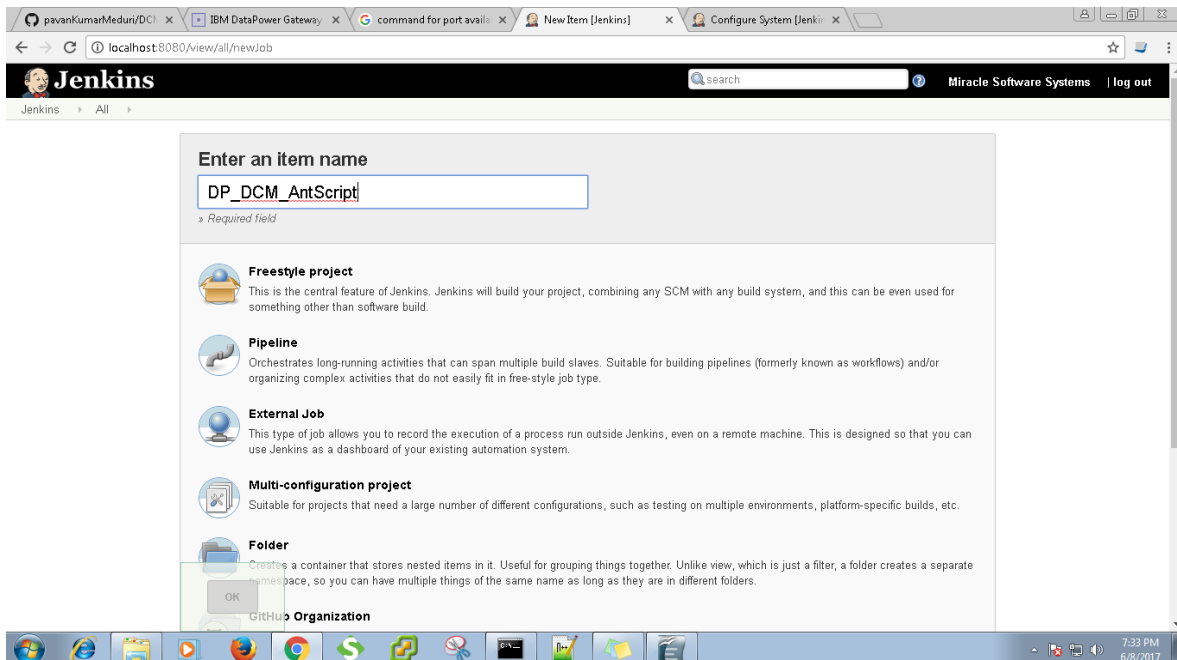
Add Installer

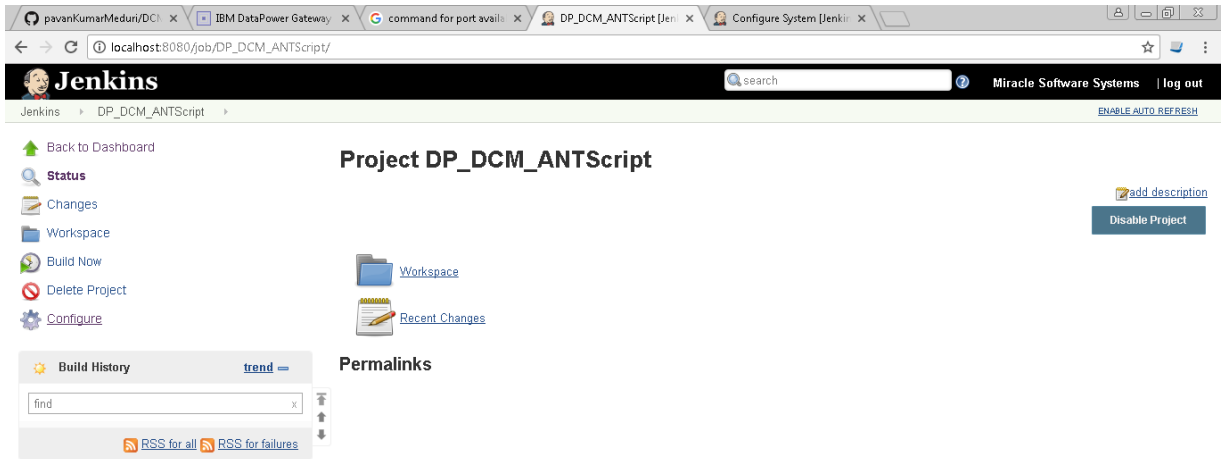
Add Git

Delete Git

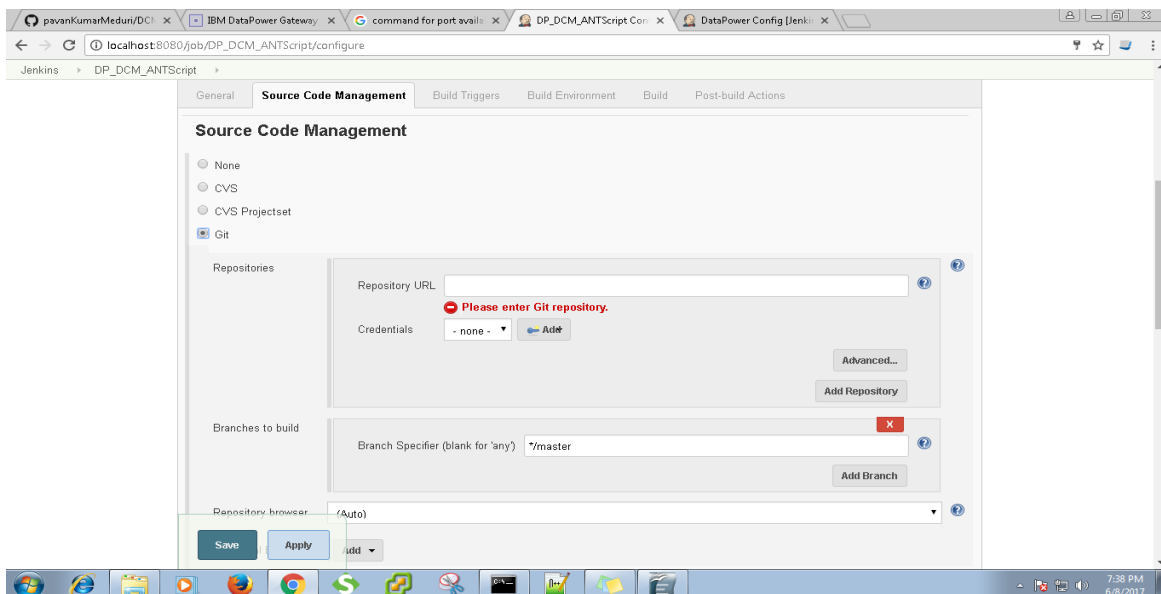
Gradle

To create a work space in jenkins
Jenkin's Home → click on New Item

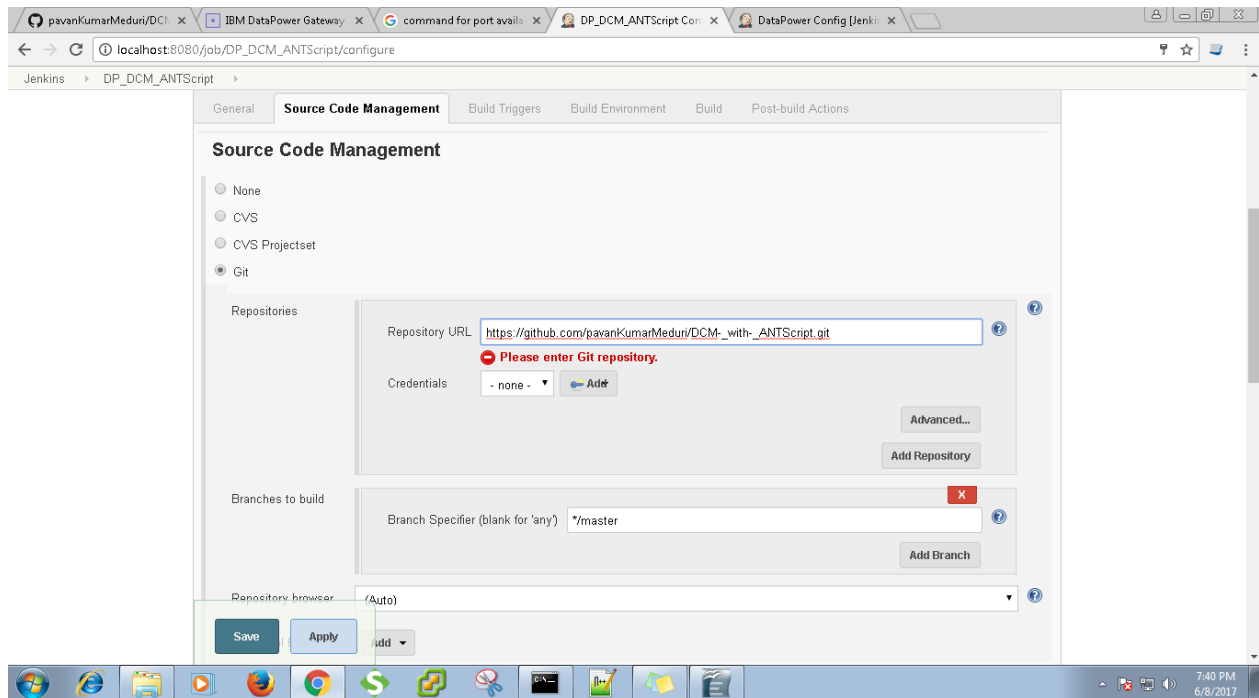
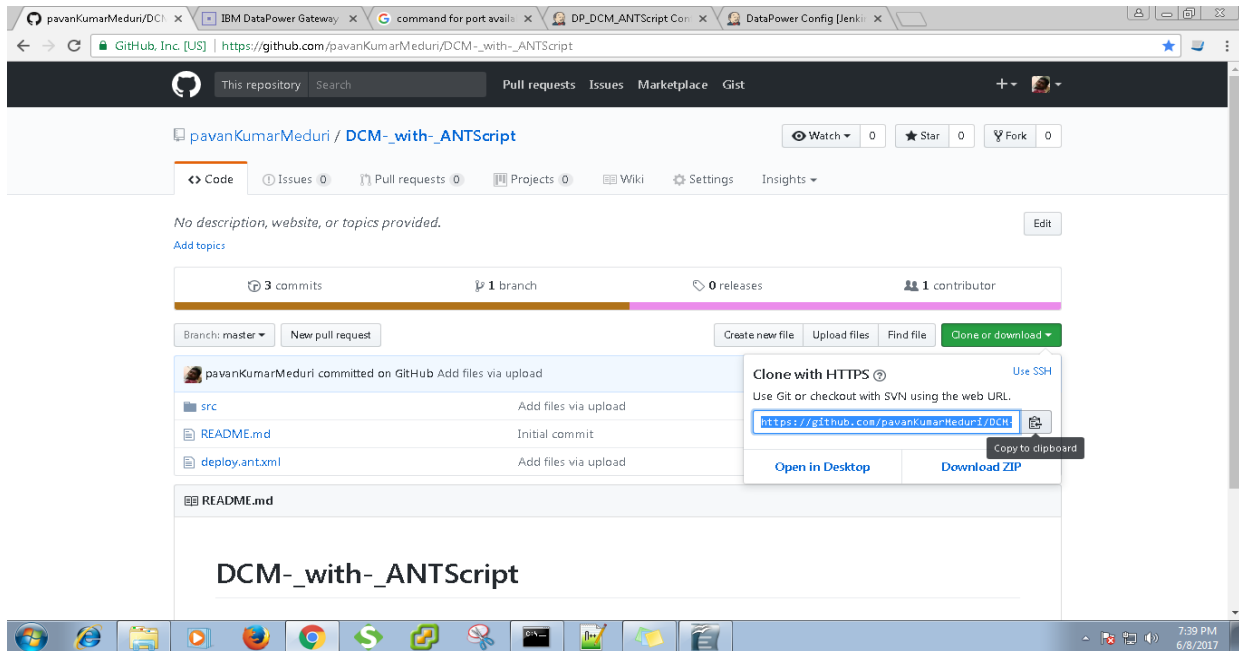




After creating the work space we need to configure the work space, for that
Jenkins_Home → Workspace(required) → configure

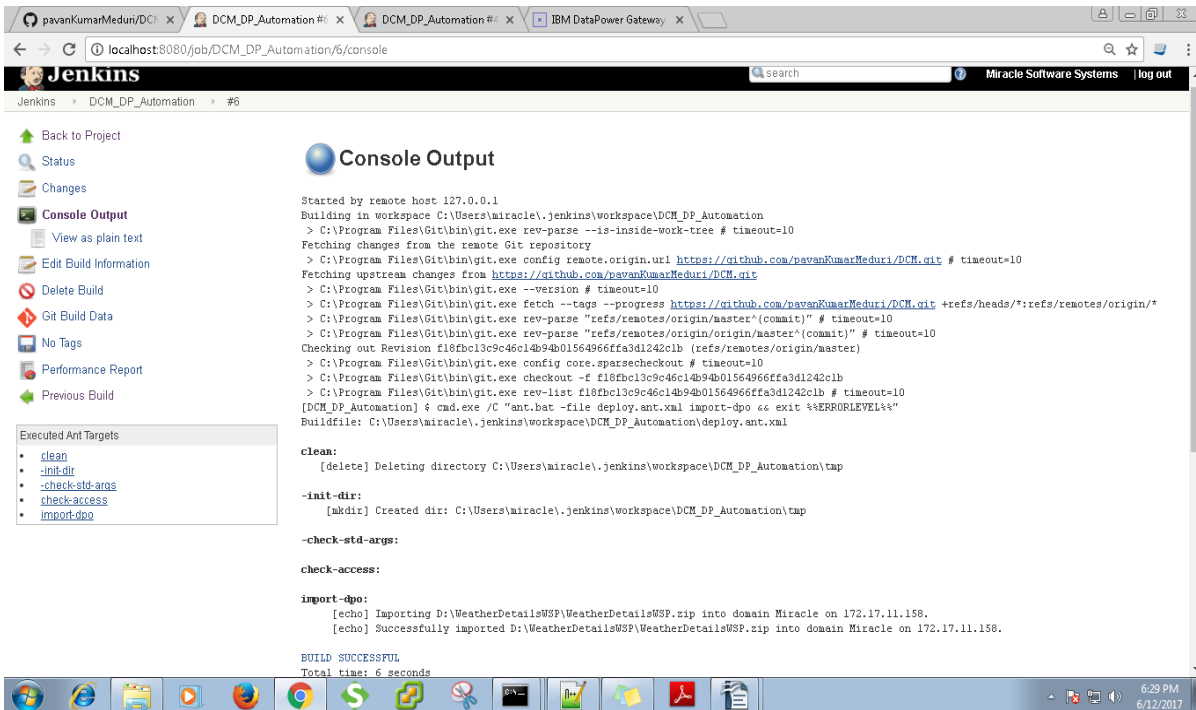


The Git Repository URL can be taken from the GitHub Repository



In the Configure section click on BUILD option, in that we need specify the target name which we want to execute.

Next move to Jenkins_Home → Workspace → click on **Build Now** option. Then the console output should be like this.



```
Started by remote host 127.0.0.1
Building in workspace C:\Users\miracle\.jenkins\workspace\DCM_DP_Automation
> C:\Program Files\Git\bin\git.exe rev-parse --is-inside-work-tree # timeout=10
Fetching changes from the remote Git repository
> C:\Program Files\Git\bin\git.exe config remote.origin.url https://github.com/pavanKumarMeduri/DCM.git # timeout=10
Fetching upstream changes from https://github.com/pavanKumarMeduri/DCM.git
> C:\Program Files\Git\bin\git.exe --version # timeout=10
> C:\Program Files\Git\bin\git.exe fetch --tags --progress https://github.com/pavanKumarMeduri/DCM.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> C:\Program Files\Git\bin\git.exe rev-parse "refs/remotes/origin/master^{commit}" # timeout=10
> C:\Program Files\Git\bin\git.exe rev-parse "refs/remotes/origin/master^{commit}" # timeout=10
Checking out Revision f18fbc13c9c46c14b94b01564966ffa3d1242c1b (refs/remotes/origin/master)
> C:\Program Files\Git\bin\git.exe config core.sparsecheckout # timeout=10
> C:\Program Files\Git\bin\git.exe checkout -f f18fbc13c9c46c14b94b01564966ffa3d1242c1b
> C:\Program Files\Git\bin\git.exe rev-list f18fbc13c9c46c14b94b01564966ffa3d1242c1b # timeout=10
[DCM_DP_Automation] $ cmd.exe /C "ant.bat -file deploy.ant.xml import-dpo && exit %ERRORLEVEL%"
Buildfile: C:\Users\miracle\.jenkins\workspace\DCM_DP_Automation\deploy.ant.xml

clean:
[delete] Deleting directory C:\Users\miracle\.jenkins\workspace\DCM_DP_Automation\tmp

-init-dir:
[mkdir] Created dir: C:\Users\miracle\.jenkins\workspace\DCM_DP_Automation\tmp

-check-std-args:

check-access:

import-dpo:
[echo] Importing D:\WeatherDetails\WSP\WeatherDetailsWSP.zip into domain Miracle on 172.17.11.158.
[echo] Successfully imported D:\WeatherDetails\WSP\WeatherDetailsWSP.zip into domain Miracle on 172.17.11.158.

BUILD SUCCESSFUL
Total time: 6 seconds
```

Till now we deployed a service from the one Domain to another domain in the Data Power by manually.

As of our flow we need to automate the entire process for that we need to configure the Jenkins and give the command through CURL. To do this we need **Release Management Process**.

5.Release Management Process

Release management is the process of **managing**, planning, scheduling and controlling software build through different stages and environments; including testing and deploying software releases

for that we need to collect the API Token from the Jenkins.To get the API Token

Jenkins_Home → Click on Name of Jenkins → Configure

The screenshot shows the Jenkins web interface. The top header includes the Jenkins logo, a search bar, and the text "Miracle Software Systems | log out". The left sidebar contains navigation links: "New Item", "People", "Build History", "Personal View", "Manage Jenkins", "My Views", "Import a Clif zip", and "Credentials". The main content area displays a table of builds. The table has columns for "S", "W", "Name", "Last Success", "Last Failure", and "Last Duration". There are two rows of builds: "DataPower" and "DCM_DP_Automation". A dropdown menu is open over the "DataPower" row, showing options: "Builds", "Configure", "My Views", and "Credentials". Below the table, there are links for "Icon: S M L" and "Legend". At the bottom, there are two sections: "Build Queue" (No builds in the queue) and "Build Executor Status" (1 Idle, 2 Idle).

S	W	Name	Last Success	Last Failure	Last Duration
		DataPower	3 days 19 hr - #19	3 days 23 hr - #18	12 sec
		DCM_DP_Automation	3 hr 17 min - #14	15 hr - #10	16 sec

The screenshot shows the Jenkins user configuration page for a user named 'Miracle Software Systems'. The page is accessed via a web browser at the URL 'localhost:8080/user/miracle/configure'. The left sidebar contains navigation links: People, Status, Builds, Configure (selected), My Views, and Credentials. The main content area includes the following sections:

- Full Name:** A text field containing 'Miracle Software Systems'.
- Description:** A large text area for additional information.
- API Token:** A section with a 'Show API Token...' button.
- Credentials:** A section with the text 'Credentials are only available to the user they belong to'.
- E-mail:** A section with an 'E-mail address' field containing 'pmeduri@miraclesoft.com' and a note 'Your e-mail address, like joe.chin@run.com'.
- Extended Email Job Watching:** A section with the text 'No configuration available'.
- My Views:** A section with a 'Default View' field and a note 'The view selected by default when navigating to the users private views'.

At the bottom of the form are 'Save' and 'Apply' buttons. The browser's taskbar at the bottom shows various application icons and the system clock indicating 7:46 PM on 6/8/2017.

This screenshot shows the same Jenkins user configuration page, but with additional information filled in. The 'API Token' section now displays a 'User ID' of 'Miracle' and an 'API Token' of '9a7241f15d05a540b7f5a02621cb2948', with a 'Change API Token' button. The 'E-mail' section remains the same. The 'My Views' section is also visible. The 'Save' and 'Apply' buttons are at the bottom. The browser's taskbar at the bottom shows the system clock indicating 6:37 PM on 6/12/2017.

Note: Here we need to take User ID and API Token.

Next move to Jenkins_Home → workspace → click on Build Trigger

The screenshot shows the Jenkins configuration interface for a job. The 'Build Triggers' tab is selected. Under 'Build Triggers', the checkbox 'Trigger builds remotely (e.g., from scripts)' is checked. The 'Authentication Token' field contains 'Welcome@123'. Below this, a text box provides the URL to trigger a build remotely: `JENKINS_URL/job/DCM_DP_Automation/build?token=TOKEN_NAME` or `/buildWithParameters?token=TOKEN_NAME`. It also mentions that one can optionally append `&cause=Cause+Text`. Other options like 'Build after other projects are built', 'Build periodically', 'GitHub hook trigger for GITScm polling', and 'Poll SCM' are unchecked. The 'Build Environment' section has options like 'Delete workspace before build starts', 'Abort the build if it's stuck', 'Add timestamps to the Console Output', and 'Use secret text(s) or file(s)', all of which are unchecked. At the bottom, there are 'Save' and 'Apply' buttons.

from the above we need to frame the command for the auto triggering the job in Jenkins

e.g: Use the following URL to trigger build

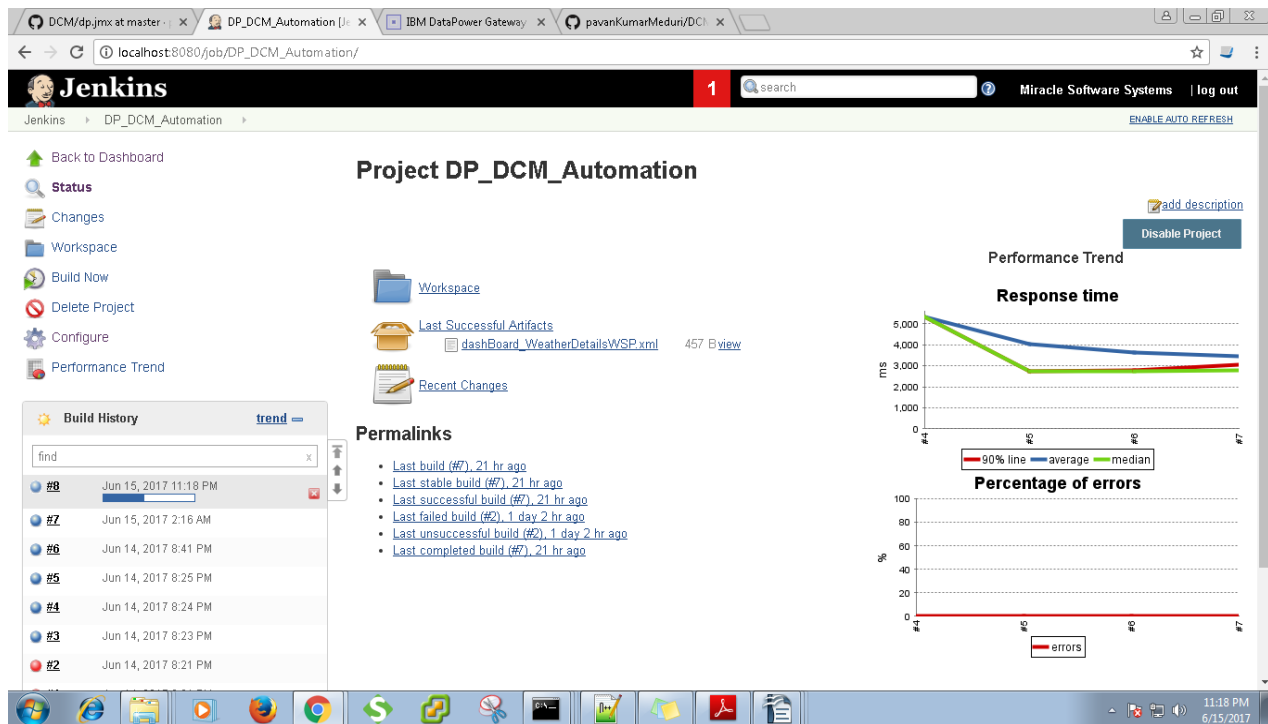
remotely: `JENKINS_URL/job/DCM_DP_Automation/build?token=TOKEN_NAME`.

Here is the command :

curl -user Miracle: 9a7241f15d05a540b7f5a02621cb2948

http://localhost:8080/job/DCM_DP_Automation/build?token=Welcome@123


```
C:\Windows\System32\cmd.exe
C:\>curl --user Miracle:9a7241f15d05a540b7f5a02621cb2948 http://localhost:80/job/DCM_DP_Automation/build?token=welcome@123
C:\>
```



By giving this command we are able to build a job automatically in Jenkins

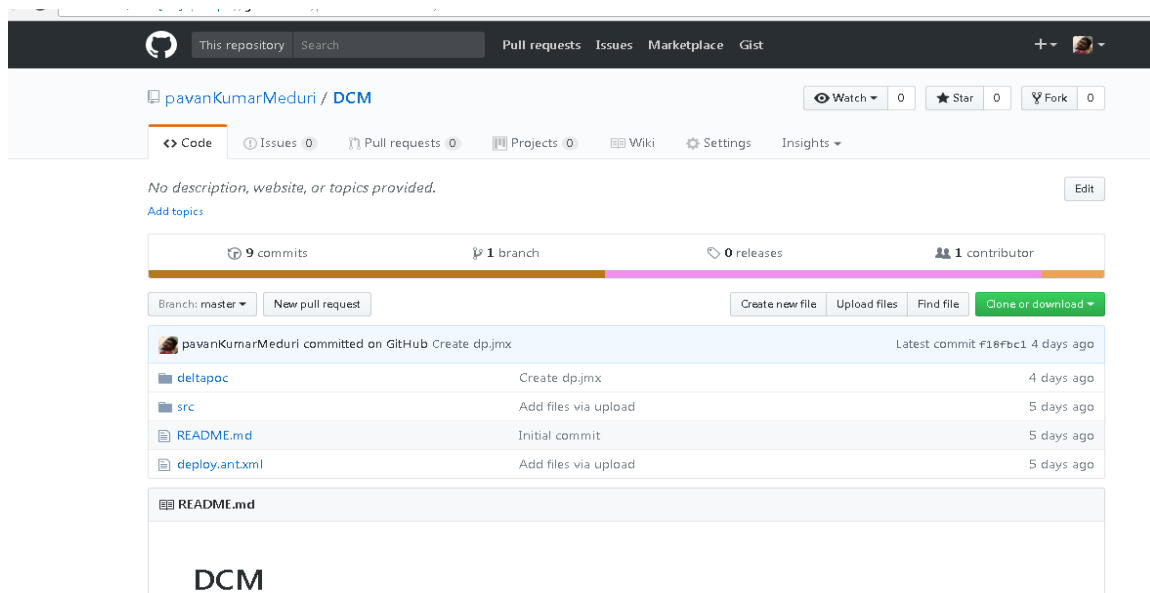
6.Jmeter

Apache Jmeter is an Apache project that can be used as a load testing tool for analyzing and measuring the performance of a variety of services, with a focus on web applications.

Download the Apache Jmeter from the below link

http://jmeter.apache.org/download_jmeter.cgi

when we test the target endpoint in the Jmeter we will get the **.jtl** , **.jml** and **.csv** files these files pushed into the GitHub by the name **deltapoc**.



For this we need to move

Jenkins_Home → Workspace → Configure → Build → Execute windows batch command

Here we need to give

- ✓ In which path jmeter is working
- ✓ Jmeter output format
- ✓ File location from the **.jenkins** folder

General Source Code Management Build Triggers Build Environment **Build** Post-build Actions

Build

Invoke Ant

Ant Version

Targets

Advanced...

Execute Windows batch command

Command

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

Advanced...

Execute Windows batch command

Advanced...

pavanKumarMeduri/DCM_DP_Automation C:\Users\pavanKumarMeduri\workspace\DCM_DP_Automation IBM DataPower Gateway

localhost:8080/job/DCM_DP_Automation/configure

General Source Code Management Build Triggers Build Environment Build **Post-build Actions**

Post-build Actions

Public Performance test report

Source data file (optional)

Performance display ☐ Performance Per TestCase Mode ☐ Side Titled Graph

Select graph metric

Select operation mode ☐ Expert Mode ☐ Standard Mode

Standard Mode

Select mode: ☐ Relative Threshold ☐ Error Threshold

☐ Fail on error ☐ Fail on failure messages are not present

Use Error Threshold on single build:

Use Relative Threshold on single build:

Use Relative Threshold for build comparison: ☐ Unset ☐ Range ☐ Range ☐ Range

Failed % Range:

Failed % Range:

Compare with previous build: ☐ Compare with build: ☐

Compare based on:

Expert Mode

Constraint type: ☐ Ignore Failed Build ☐ Ignore Unset Build ☐ Same constraint in workspace

Constraint:

Add new constraint

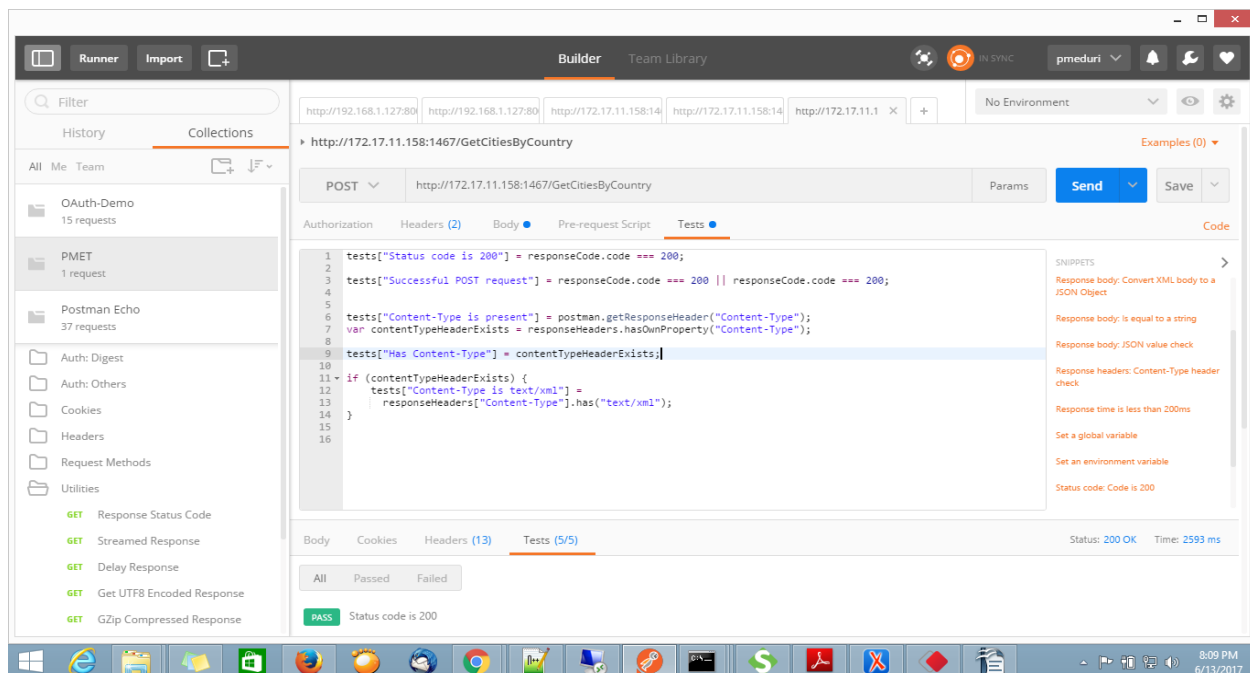
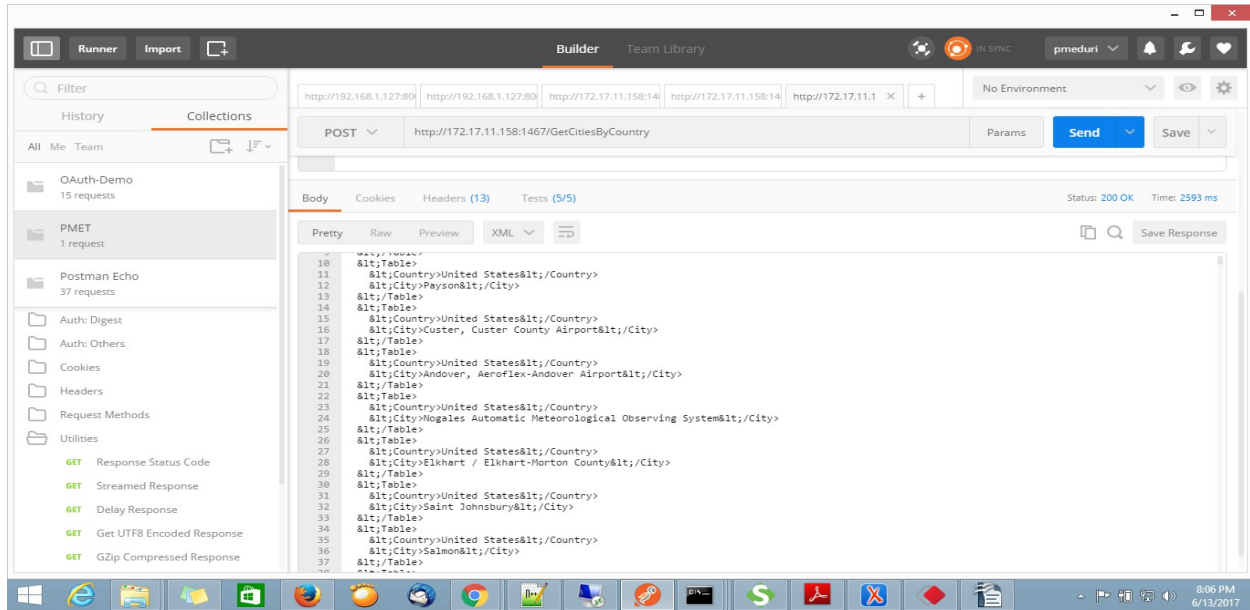
Save Apply

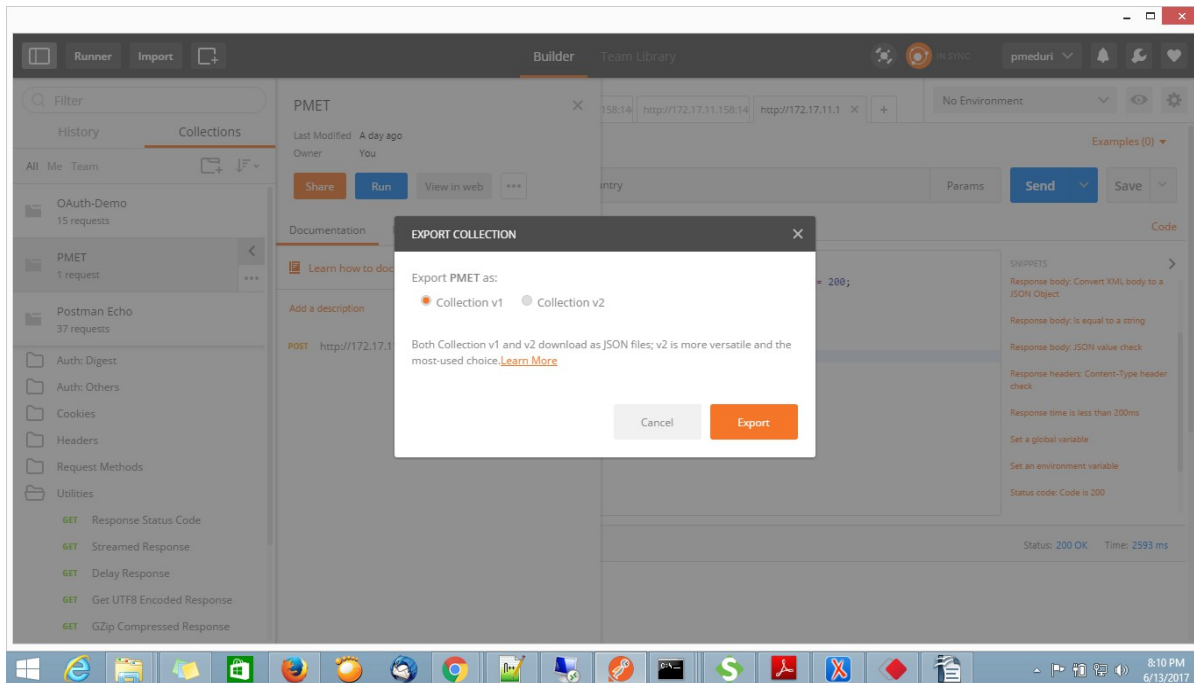
Page generated: Jun 12, 2017 6:49 PM EDT

6:49 PM 6/12/2017

6. Testing Automation:

Before going to automation we need write test cases in postman and then we can export the collection.

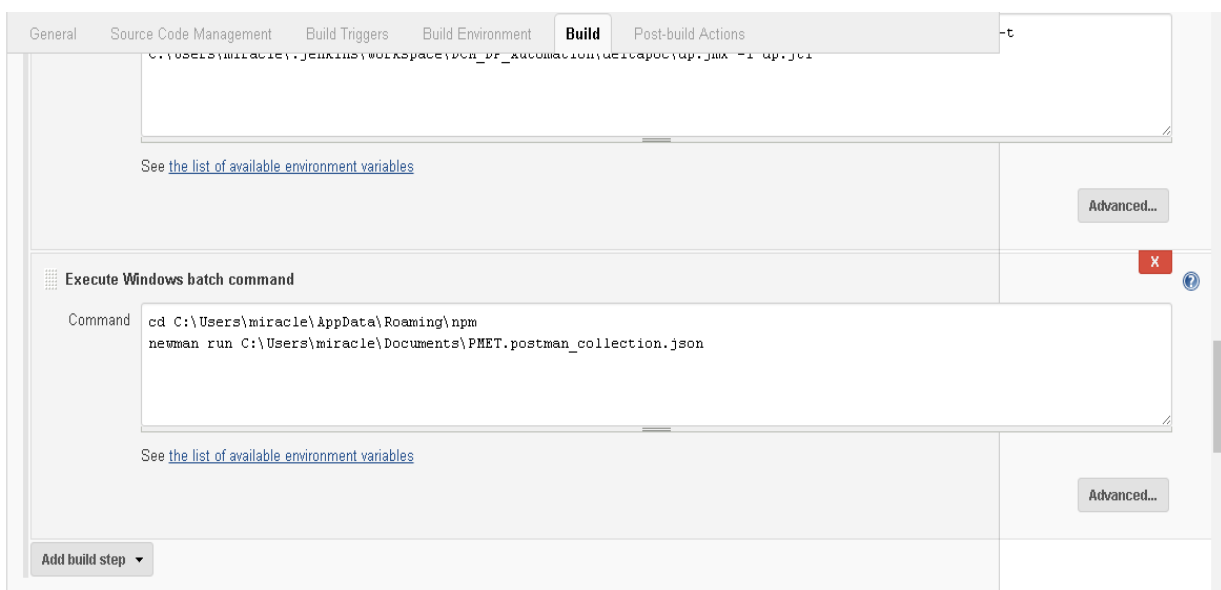




The collection will automatically saved into Documents folder.

Now we need to configure the Jenkins

Jenkins_Home → Workspace → configure → Build → run through Windows batch command



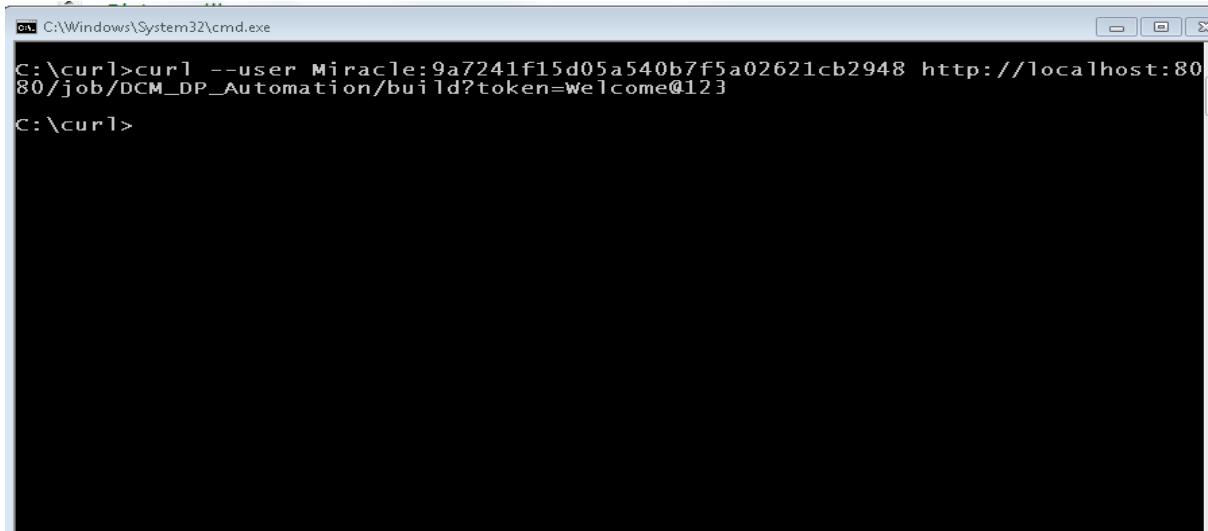
To execute this we need install NEWMAN in our local system using Nodejs.

Here is the command for test the target url through newman

```
cd C:\Users\miracle\AppData\Roaming\npm
```

```
newman run C:\Users\miracle\Documents\PMET.postman_collection.json
```

After completion these steps we need to give the command in curl command prompt.



```
C:\Windows\System32\cmd.exe

C:\curl>curl --user Miracle:9a7241f15d05a540b7f5a02621cb2948 http://localhost:8080/job/DCM_DP_Automation/build?token=Welcome@123
C:\curl>
```

[Back to Dashboard](#)

[Status](#)

[Changes](#)

[Workspace](#)

[Build Now](#)

[Delete Project](#)

[Configure](#)

[Performance Trend](#)

Build History		trend
<input type="text" value="find"/>		
#15	Jun 13, 2017 8:35 PM	
#14	Jun 13, 2017 3:23 PM	
#13	Jun 13, 2017 3:22 PM	
#12	Jun 13, 2017 3:11 PM	
#11	Jun 13, 2017 3:13 AM	

Project DCM_DP_Automation

[Workspace](#)

[Last Successful Artifacts](#)
dashBoard_dp.xml 457 B [view](#)

[Recent Changes](#)

Permalinks

- [Last build \(#15\), 0.53 sec ago](#)
- [Last stable build \(#14\), 5 hr 12 min ago](#)
- [Last successful build \(#14\), 5 hr 12 min ago](#)
- [Last failed build \(#10\), 17 hr ago](#)
- [Last unsuccessful build \(#10\), 17 hr ago](#)
- [Last completed build \(#14\), 5 hr 12 min ago](#)

