



Parshvanath Charitable Trust's
A. P. SHAH INSTITUTE OF TECHNOLOGY
(Approved by AICTE New Delhi & Govt. of Maharashtra, Affiliated to University of Mumbai)
(Religious Jain Minority)

Department of Information Technology

Academic Year: 2021-22

Semester: V

Class / Branch: IT

Subject: DevOps Lab

Name of Instructor: Prof. Sonal Jain

Name of Student: Soham Dalvi

Student ID: 21104010

Date of Performance: 17/8/23

Date of Submission: 17/8/23

Experiment No. 4

Aim: To install and configure Jenkins to test and deploy an application with Maven

Output:

Creating a system on Jenkins

Dashboard > Manage Jenkins > System >

System

Home directory ?
By default, Jenkins stores all of its data in this directory on the file system

System Message
This message will be displayed at the top of the Jenkins main page. This can be useful for posting notifications to your users

[Plain text](#) [Preview](#)

Maven Project Configuration
Global MAVEN_OPTS ?

Deployed system

All

+

S	W	Name ↓	Last Success	Last Failure	Last Duration	
		Soham_dalvi_EXP4	N/A	N/A	N/A	

Icon:

S

M

L

Icon legend

Atom feed for all

Atom feed for failures

Atom feed for just latest builds

Build Triggers

☐ Build after other projects are built

☒ Build periodically

Schedule

⚠ Do you really mean "every minute" when you say "*****"? Perhaps you meant "H * * * *" to poll once per hour
 Would last have run at Thursday, 17 August, 2023 at 2:35:21 PM India Standard Time; would next run at Thursday, 17 August, 2023 at 2:35:21 PM India Standard Time.

Added a timer which create backups at every one minute

Status

Changes

Workspace

Build Now

Configure

Delete Project

Rename

EXP4

my first jenkins project

Edit description

Disable Project

Permalinks

- Last build (#2), 43 sec ago
- Last stable build (#2), 43 sec ago
- Last successful build (#2), 43 sec ago
- Last completed build (#2), 43 sec ago

Build History

trend

Filter builds...

#3

Aug 17, 2023, 2:34 PM

#2

Aug 17, 2023, 2:33 PM

#1

Aug 17, 2023, 2:32 PM

Atom feed for all

Atom feed for failures

In the left croner we can see backups being created at every minute

Console Output

```

Started by user unknown or anonymous
Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/freestyle
[freestyle] $ /bin/sh -xe /tmp/jenkins3581635290272583548.sh
+ mkdir Soham_jenkins
+ cd Soham_jenkins
+ touch Soham.txt
Finished: SUCCESS
  
```

Doing shell scripting to make a file via jenkins

Confirming the file being created

```
apsit@apsit-HP-Pro-Tower-280-G9-PCI-Desktop-PC: /var/lib/jenkins/workspace/freestyle$ ls
apsit@apsit-HP-Pro-Tower-280-G9-PCI-Desktop-PC: /var/lib/jenkins/workspace/freestyle$ cd /var/lib/jenkins/workspace/freestyle
apsit@apsit-HP-Pro-Tower-280-G9-PCI-Desktop-PC: /var/lib/jenkins/workspace/freestyle$ cd Sohan_jenkins
apsit@apsit-HP-Pro-Tower-280-G9-PCI-Desktop-PC: /var/lib/jenkins/workspace/freestyle/Sohan_jenkins$ ls
Sohan.txt
apsit@apsit-HP-Pro-Tower-280-G9-PCI-Desktop-PC: /var/lib/jenkins/workspace/freestyle/Sohan_jenkins$ cat Sohan.txt
apsit@apsit-HP-Pro-Tower-280-G9-PCI-Desktop-PC: /var/lib/jenkins/workspace/freestyle/Sohan_jenkins$
```

Console output for maven project which is linked through git

Console Output

```
Started by user unknown or anonymous
Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/github
The recommended git tool is: NONE
No credentials specified
Cloning the remote Git repository
Cloning repository https://github.com/anujdevopslearn/MavenBuild.git
> git init /var/lib/jenkins/workspace/github # timeout=10
Fetching upstream changes from https://github.com/anujdevopslearn/MavenBuild.git
> git --version # timeout=10
> git --version # 'git version 2.34.1'
> git fetch --tags --force --progress -- https://github.com/anujdevopslearn/MavenBuild.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> git config remote.origin.url https://github.com/anujdevopslearn/MavenBuild.git # timeout=10
> git config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
Avoid second fetch
> git rev-parse refs/remotes/origin/master^{commit} # timeout=10
Checking out Revision d79c72ec09b17c6cdc0a5feedb2afd9ea3907480 (refs/remotes/origin/master)
> git config core.sparsecheckout # timeout=10
> git checkout -f d79c72ec09b17c6cdc0a5feedb2afd9ea3907480 # timeout=10
Commit message: "Update README.md"
First time build. Skipping changelog.
Finished: SUCCESS
```

Conclusion: In this experiment we learnt how to configure Jenkins and deploy an application with maven