## 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**
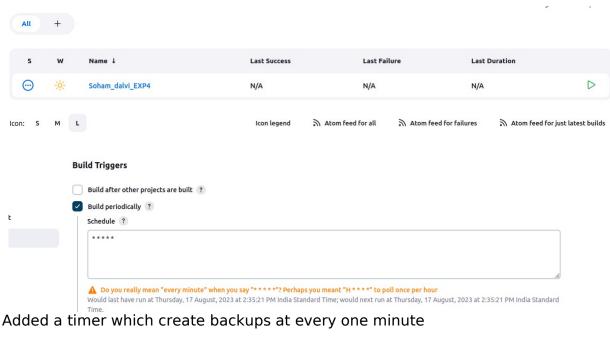
**Date of Submission:17/8/23**

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## Experiment No. 4

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

**Output:**

Creating a system on jenkins



Deployed system

| 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**

t

☐ 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



Console output for maven project which is linked through git



```
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