DEVOPS PROFESSIONAL CERTIFICATION PROGRAM

Lab – 8: Continuous Deployment – Tomcat

- ➢ Create Maven's Web Application Project
- ➢ Configure SCM, Build and Apache Tomcat

- **Use maven project (Demo2) created (webapp type) in earlier Lab. Also, working directory initialize with git repository and commit**

```
osgdev@DevOpsOS-TR:~/ap/GettingStarted/mavenProcess/Demo2$ tree
├── pom.xml
└── src
    └── main
        ├── resources
        └── webapp
            ├── index.jsp
            └── WEB-INF
                └── web.xml

5 directories, 3 files
osgdev@DevOpsOS-TR:~/ap/GettingStarted/mavenProcess/Demo2$ git init
Initialized empty Git repository in /home/osgdev/ap/GettingStarted/mavenProcess/Demo2/.git/
osgdev@DevOpsOS-TR:~/ap/GettingStarted/mavenProcess/Demo2$ git add .
osgdev@DevOpsOS-TR:~/ap/GettingStarted/mavenProcess/Demo2$ git commit -m "Initial code"
[master (root-commit) 56971b3] Initial code
 Committer: osgdev <osgdev@DevOpsOS-TR.wipro.com>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:

    git config --global --edit

After doing this, you may fix the identity used for this commit with:

    git commit --amend --reset-author

 3 files changed, 33 insertions(+)
 create mode 100644 pom.xml
 create mode 100644 src/main/webapp/WEB-INF/web.xml
 create mode 100644 src/main/webapp/index.jsp
osgdev@DevOpsOS-TR:~/ap/GettingStarted/mavenProcess/Demo2$ 
```

- **Create Jenkins Job – Maven Project**

Enter an item name

8 Lab

» Required field

Freestyle project
This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build.

Maven project
Build a maven project. Jenkins takes advantage of your POM files and drastically reduces the configuration.

Pipeline
Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.

Multi-configuration project
Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.

Folder
Creates a container that stores nested items in it. Useful for grouping things together. Unlike view, which is just a filter, a folder creates a separate namespace, so you can have multiple things of the same name as long as they are in different folders.
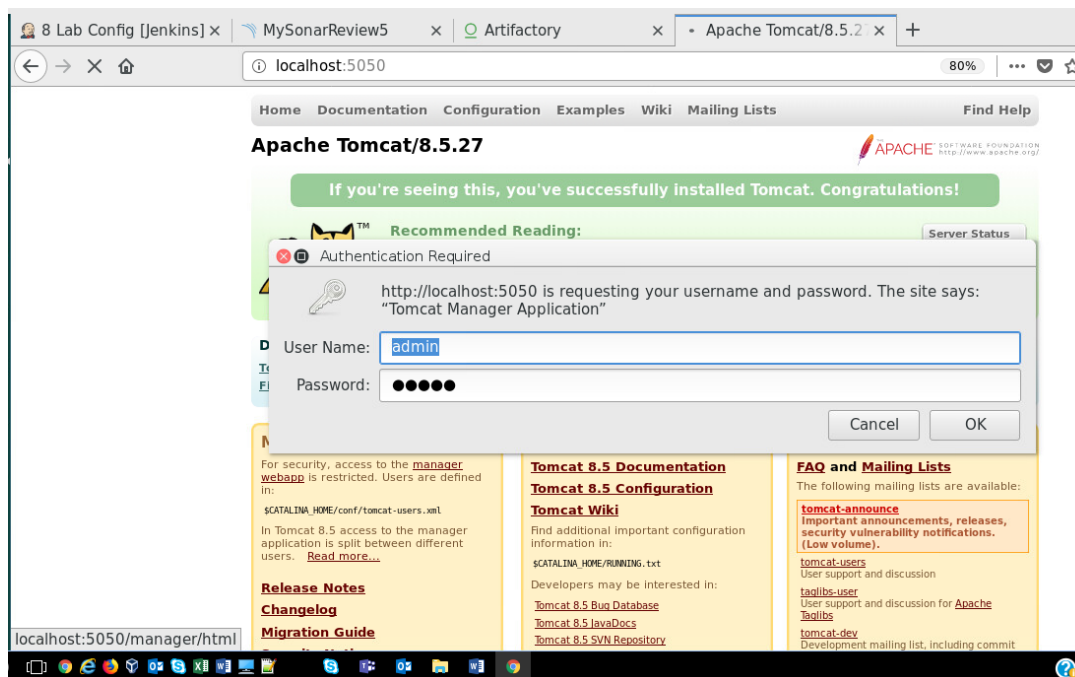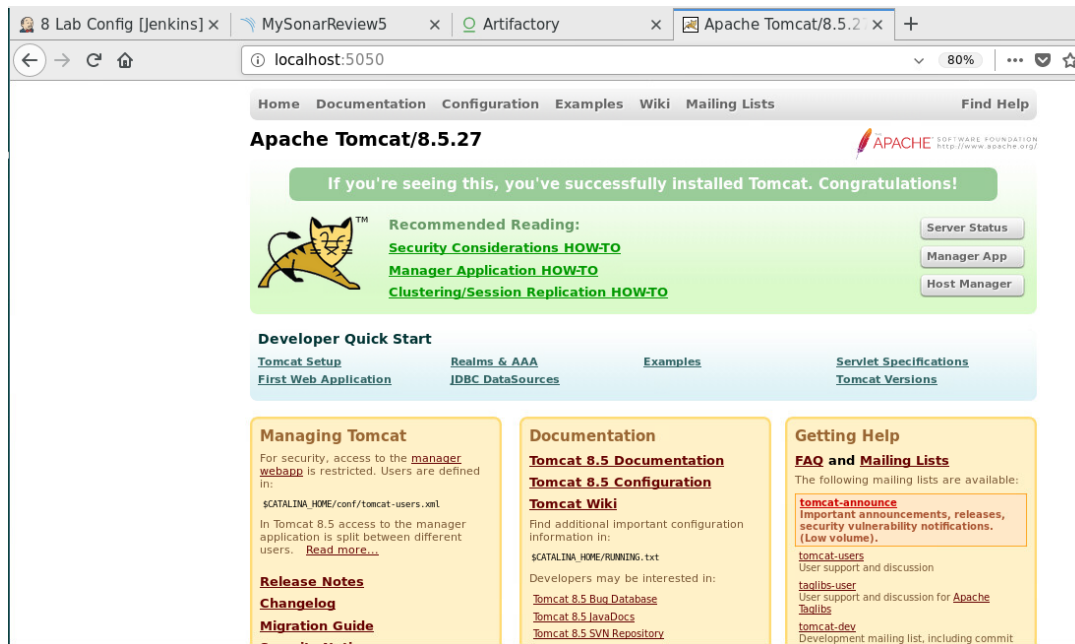
OK

- **Configure SCM & Build with maven goal "install"**

- **Configure Apache Tomcat under "Add post build Action"**
  - **–** select Deploy war/ear to a container

- **Start Tomcat service at port# 5050 and login with credentials admin/admin**

- **Select "Build Now" to start build process. Observe Jenkins Console output**

- **Upon build process success, refresh tomcat service to verify deployment**