

# Continue from previous jenkins-7.pdf # Deploy project  
using Tomcat

```
Last login: Wed Jun 4 15:06:49 2025 from 18.206.107.29
ubuntu@ip-172-31-80-223:~$ sudo su
root@ip-172-31-80-223:/home/ubuntu# cd /var/lib/jenkins/workspace/my-addressbook-pipeline/target/
root@ip-172-31-80-223:/var/lib/jenkins/workspace/my-addressbook-pipeline/target# ls
addressbook      classes          generated-test-sources  maven-status  pmd.xml    surefire-reports
addressbook.war   generated-sources  maven-archiver       pmd           reports   test-classes
root@ip-172-31-80-223:/var/lib/jenkins/workspace/my-addressbook-pipeline/target#
```

i-0a338bb08e21b7576 (jenkins-machine)

Save this location of war file somewhere

# # we will Install Tomcat in machine

```
wget https://dlcdn.apache.org/tomcat/tomcat-9/v9.0.105/bin/apache-tomcat-9.0.105.zip  
apt install unzip -y  
unzip apache-tomcat-9.0.105.zip
```

## BUT THE PROBLEM IS **JENKINS** IS ALSO WORKING ON 8080 AND **TOMCAT** IS ALSO WORKING ON 8080 port

## we need to change the tomcat port

```
cd apache-tomcat-9.0.104
```

```
cd conf
```

```
vi server.xml
```

update it from 8080 to 9090.

```
Java AJP Connector: /docs/config/ajp.html  
APR (HTTP/AJP) Connector: /docs/apr.html  
Define a non-SSL/TLS HTTP/1.1 Connector on port 8080  
-->  
<Connector port="9090" protocol="HTTP/1.1"  
connectionTimeout="20000"  
redirectPort="8443"  
maxParameterCount="1000"  
/>  
<!-- A "Connector" using the shared thread pool-->  
<!--  
<Connector executor="tomcatThreadPool"  
port="8080" protocol="HTTP/1.1"  
connectionTimeout="20000"  
redirectPort="8443"  
-- INSERT --
```

76,26

# Go to Security of machines → Edit Inbound rule

↓  
custom TCP → Allow traffic from go 30 port

Inbound rules control the incoming traffic that's allowed to reach the instance.

**Inbound rules** [Info](#)

Security group rule ID	Type	Protocol	Port range	Source	Description - opti
sgr-087a4d931d5ac3967	Custom TCP	TCP	9090	Cu... ▾	<input type="text"/> 0.0.0.0/0 <span style="color: blue;">X</span>

now we will run the tomcat on 9090 port

```
cd ..  
cd bin  
chmod 700 *.sh  
./startup.sh  
cd ..
```

u can now access the tomcat on publicipofmachine:9090

go to your jenkins job - configure and update the code ....we have added additional step 6

```
pipeline{
    agent any
    stages{
        stage("1st stage: checkout the code from github"){
            steps{
                git url: "https://github.com/akshu20791/addressbook-cicd-project"
            }
        }
        stage("2nd stage: compile the code"){
            steps{
                sh "mvn compile"
            }
        }
        stage("3rd stage: testing the code"){
            steps{
                sh "mvn test"
            }
        }
        stage("4th stage: quality assurance of the code"){
            steps{
                sh "mvn pmd:pmd"
            }
        }
        stage("5th stage: package the project"){
            steps{
                sh "mvn package"
            }
        }
        stage("6 stage: deploy the project" ){
            steps{
                sh "sudo cp /var/lib/jenkins/workspace/my-addressbook-pipeline/target/addressbook.war /home/ubuntu/apache-tomcat-9.0.104/webapps"
            }
        }
    }
}
```

If we try to build the project we will get an error message because jenkins user does not have sudo permissions

## to give sudo permissions to a user in linux

visudo

```
# User alias specification  
  
# Cmnd alias specification  
  
# User privilege specification  
root    ALL=(ALL:ALL) ALL  
jenkins ALL=(ALL:ALL) NOPASSWD: ALL  
# Members of the admin group may gain root privileges  
%admin  ALL=(ALL) ALL  
  
# Allow members of group sudo to execute any command  
%sudo   ALL=(ALL:ALL) ALL
```

press ctrl X -> y -> enter to come out of the file

# restart the jenkins to accomate the changes which you did

service jenkins restart

build the job

← → ⌂

⚠ Not secure

54.161.184.154:9090/addressbook/

Filter contacts...

First Name	Last Name
George	White
Daniel	Thompson
Timothy	Jones
Peter	Wilson
Dan	Robinson