**CASE STUDY :- 2**

**Ansible installation and configuration :-**

1. Launch Red-hat Linux EC2 instance

2. Update your EC2 instance #yum update

3. Install Ansible

# yum install ansible

4. Add a third party repository named EPEL (Extra Packages for Enterprise Linux) # rpm -Uvh https://dl.fedoraproject.org/pub/epel/epel-release-latest-7.noarch.rpm

Check ansible version

#ansible –version

**Setting Up Ansible :-**

1. Create a new user for ansible administration & grant admin access to user M

# useradd ansadmin

# passwd ansadmin

2. Enable user login on all EC2 instances. (Master & Slave) #vi /etc/ssh/sshd\_config

3. Login as a ansadmin user on master and generate ssh key (Master) #ssh-Keygeh

4. Copy keys to target servers (Master) # ssh-copy-id <target-server>

5. Update target servers information on /etc/ansible/hosts file (Master) #echo "10.10.x.x"> /etc/ansible/hosts

6.Testing:

run ansible command as a ansadmin user it should be successful Master)

# ansible all -m ping

**Install "publish Over SSH" :-**

1.Manage Jenkins > Manage Plugins > Available > Publish over SSH

2. Enable connection between Ansible and Jenkins

Manage Jenkins > Configure System > Publish Over SSH > SSH Servers

3. SSH Servers:

Hostname:<ServerIP>

username: ansible

password: \*\*\*\*\*\*\*

Test the connection "Test Connection"

**Execute job to connect :-**

1.Create a copywarfile.yml on Ansible under /opt/playbooks

# copyfile.yml

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- hosts: all

become: true

tasks:

- name: copy jar/war onto tomcat servers

copy:

src: /op/playbooks/wabapp/target/webapp.war

dest: /opt/apache-tomcat-8.5.32/webapps

2. Add tomcat server details to /etc/ansible/hosts (if you are using other hosts file update server info there)

echo "<server\_IP>" >> /etc/ansible/hosts

3. Create *Jenkins job*

Repository: <https://github.com/adt77/Case_Study_2.git>

4.Branches to build : \*/main

*Build:*

Root POM:pom.xml

Goals and options : clean install package

*5.Add post-build steps*

Send files or execute commands over SSH

SSH Server : ansible\_server

Source fiels: webapp/target/\*.war

Remote directory: //opt//playbooks

*6. Add post-build steps*

Send files or execute commands over ssH

SSH Server : ansible\_server

Exec command ansible-playbook /opt/playbooks/copywarfile.yml

7. Execute job and you should be able to seen build has been deployed on Tomcat server.

