Docker & Ansible

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# Installation of Tomcat using Ansible Playbook-:

Playbook to install Tomcat is-:

* Java has to be installed in Linux machine with environment variables set.
* Extracting the tomcat package.
* Installing tomcat.
* Start Tomcat.
* Deploy War file in Tomcat.

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- hosts: all

tasks:

- shell: echo JAVA\_HOME is $JAVA\_HOME

environment:

JAVA\_HOME: /usr/local/java/jdk1.8.0\_111

- name: Extract archive

command: /bin/tar xvf /home/daksha/ansible\_demo/apache-tomcat-7.0.61.tar.gz home/daksha/apache-tomcat-7.0.61

- name: Symlink install directory

file: src=/home/daksha/ansible\_demo/apache-tomcat-7.0.61 path=/usr/share/tomcat state=link

- name: Configure Tomcat server

template: src=/home/daksha/ansible\_demo/apache-tomcat-7.0.61/conf/server.xml dest=/usr/share/tomcat/conf/

notify: restart tomcat

- name: Configure Tomcat users

template: src=/home/daksha/ansible\_demo/apache-tomcat-7.0.61/conf/tomcat-users.xml dest=/usr/share/tomcat/conf/

notify: restart tomcat

- name: Install Tomcat init script

copy: src=/home/daksha/ansible\_demo/apache-tomcat-7.0.61/bin/setclasspath.sh dest=/etc/init.d/tomcat mode=0755

- name: Start Tomcat

command: /usr/share/tomcat/bin/startup.sh

- name: deploy war file

copy: src=/home/daksha/ansible\_demo/benefits.war dest=/usr/share/tomcat/webapps/

* Running this playbook -: ansible-playbook –i host –c local tomcat.yml
* Browse the port and check whether tomcat is up.

# To run ansible playbook via Dockerfile

Dockerfile to build ansible playbook is-:

#Loads the Ubuntu image as base image from internal repo FROM 10.242.138.121:5000/library/ubuntu:14.04

# Install pre-reqs for ansible RUN apt-get update && \ apt-get install -y python python-dev python-pip && \ RUN pip install ansible

#Add ansible configuration

ADD tomcat.yml /etc/ansible/tomcat.yml

ADD host /etc/ansible/hosts

WORKDIR /etc/ansible

#Run palybook

RUN ansible-playbook etc/ansible/tomcat.yml -c local

#Export port

EXPOSE 8080

ENTRYPOINT ["ansible-playbook"]

To build the container-: docker –build tomcat/newimage .