Ansible playbook — Java and Docker installation

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Hello all, in this article I will show you how to write and use an Ansible playbook for development purpose. this Playbook can be used for automation management and configuration to remote hosts. The playbook itself is written in YAML format.  
   
The requirements are:

* Java JRE
* Java JDK
* Docker
* Docker-compose
* Apache Maven

Usually YAML files begin with — –, that indicates the start of a document.  
we need to define ansible hosts first. read previous article [here](http://megawan.id/2017/04/11/provisioning-vagrant-boxes-ansible/).

$ vi /etc/ansible/hosts

slave ansible\_ssh\_host=127.0.0.1 ansible\_ssh\_port=2200 ansible\_ssh\_user=vagrant ansible\_ssh\_private\_key\_file=/var/testinglab/.vagrant/machines/slave/virtualbox/private\_key

Let’s start writing playbook.

$ vi development.yml

Download and install Java JRE and Java JDK.

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- hosts: slave

tasks:

- name: Download Java JRE

get\_url:

url: <http://download.oracle.com/otn-pub/java/jdk/8u60-b27/jre-8u60-linux-x64.rpm>

dest: /opt/jre-8u60-linux-x64.rpm

headers: 'Cookie: gpw\_e24=http%3A%2F%2Fwww.oracle.com%2F; oraclelicense=accept-securebackup-cookie'

- name: install Java JRE rpm from a local file

yum:

name: /opt/jre-8u60-linux-x64.rpm

state: present

- name: Download Java JDK

get\_url:

url: <http://download.oracle.com/otn-pub/java/jdk/8u60-b27/jdk-8u60-linux-x64.rpm>

dest: /opt/jdk-8u60-linux-x64.rpm

headers: 'Cookie: gpw\_e24=http%3A%2F%2Fwww.oracle.com%2F; oraclelicense=accept-securebackup-cookie'

- name: Install Java JDK rpm from a local file

yum:

name: /opt/jdk-8u60-linux-x64.rpm

state: present

Install apache maven

- name: install the latest version of Apache Maven

yum:

name: maven

state: latest

Install docker and python-pip for downloading docker-compose.

- name: install the latest version of Docker

yum:

name: docker

state: latest

- name: install the latest version of Python-pip

yum:

name: python-pip

state: latest

- name: install the latest version of Docker-compose from pip

pip:

name: docker-compose

and running with ansible-playbook command.

$ ansible-playbook -l slave development.yml