Playbooks

There’s another small quirk to YAML. All YAML files (regardless of their association with Ansible or not) can optionally begin with --- and end with .... This is part of the YAML format and indicates the start and end of a document.

All members of a list are lines beginning at the same indentation level starting with a "- " (a dash and a space):

**---**

*# A list of tasty fruits*

fruits**:**

**-** Apple

**-** Orange

**-** Strawberry

**-** Mango

**...**

A dictionary is represented in a simple key: value form (the colon must be followed by a space):

*# An employee record*

martin**:**

name**:** Martin D'vloper

job**:** Developer

skill**:** Elite

More complicated data structures are possible, such as lists of dictionaries, dictionaries whose values are lists or a mix of both:

*# Employee records*

**-** martin**:**

name**:** Martin D'vloper

job**:** Developer

skills**:**

**-** python

**-** perl

**-** pascal

**-** tabitha**:**

name**:** Tabitha Bitumen

job**:** Developer

skills**:**

**-** lisp

**-** fortran

**-** erlang

#Create a Playbook

$ vi <name of your file>.yml

---

- hosts: client

tasks:

- name: installs nginx web server

yum: pkg=nginx state=installed update\_cache=true

notify:

- start nginx

handlers:

- name: start nginx

service: name=nginx state=started

#Run the playbook

$ ansible-playbook <name of your file>.yml

Create a dockerfile using this content and Running dokcer file using ansible

# Version: 0.0.1

FROM centos

MAINTAINER maintainer\_name "maintainer\_email"

RUN yum install -y httpd

EXPOSE 80

Login to client and edit the file below add the file content

$ sudo vi /etc/yum.repos.d/docker.repo

[dockerrepo]

name=Docker Repository

baseurl=https://yum.dockerproject.org/repo/main/centos/7/

enabled=1

gpgcheck=1

gpgkey=https://yum.dockerproject.org/gpg

Below is ansible script for building an image and start the container

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- hosts: client

become: yes

remote\_user: ansadmin

become\_method: sudo

tasks:

- name: install pip

yum: name=python-pip state=present

- name: install docker-py

pip: name=docker-py

- name: install docker engine

yum: name=docker state=latest

- name: start the docker

service: name=docker state=started

- name: copy dockerfile

copy:

src: dockerfile

dest: /home/ansadmin/dockerfile

- name: Building docker image

docker\_image:

name: web

path: /home/ansadmin/

state: build

- name: Run container

docker\_container:

name: web-container

image: web

state: started

- name: check if docker container is running

shell: docker ps