Class 7

Recap:-

Docker in detail

Docker networking

Docker volumes

Wrote docker files.

Todays Agenda:

Talk about puppet

Introduction

Why its used

Common use cases

Set up a puppet infrastructure.

Create a dev and a prod machine

Rename the hosts

Set up fake DNS

Sign the certificates for both

Download the cookbooks from the puppet forge

On the dev machine use the tomcat 8 and java 8

On the production machine use tomcat 7 and java 7

Run puppet client to demonstrate the deployment of the addressbook.war application on both machines.

Pending from previous class

sudo apt-get install software-properties-common  
$ sudo apt-add-repository ppa:ansible/ansible  
$ sudo apt-get update  
$ sudo apt-get install ansible

Disable the strict host key checking in ssh config

In the /etc/ssh/ssh\_config

Add this

StrictHostKeyChecking no  
UserKnownHostsFile /dev/null

Export EDITOR=vim

Run visudo command

Jenkins ALL=(ALL:ALL) NOPASSWD:ALL

Either you copy the addressbook.war to the docker machine and build the image once

On the fly add a build → Build docker images (after the copy artifact)

root@puppet-server:~# cat /etc/hosts

127.0.0.1 localhost

127.0.1.1 ubuntu

# The following lines are desirable for IPv6 capable hosts

::1 localhost ip6-localhost ip6-loopback

ff02::1 ip6-allnodes

ff02::2 ip6-allrouters

192.168.1.11 puppet-server.local puppet-server

192.168.1.16 prod-server.local prod-server

192.168.1.17 dev-server.local dev-server

root@puppet-server:~#

root@prod-server:~#

root@prod-server:~#

root@prod-server:~# cat /etc/hosts

127.0.0.1 localhost

127.0.1.1 ubuntu

# The following lines are desirable for IPv6 capable hosts

::1 localhost ip6-localhost ip6-loopback

ff02::1 ip6-allnodes

ff02::2 ip6-allrouters

192.168.1.11 puppet-server.local puppet-server

192.168.1.16 prod-server.local prod-server

192.168.1.17 dev-server.local dev-server

root@prod-server:~#

root@dev-server:~#

root@dev-server:~#

root@dev-server:~# cat /etc/hosts

127.0.0.1 localhost

127.0.1.1 ubuntu

# The following lines are desirable for IPv6 capable hosts

::1 localhost ip6-localhost ip6-loopback

ff02::1 ip6-allnodes

ff02::2 ip6-allrouters

192.168.1.11 puppet-server.local puppet-server

192.168.1.16 prod-server.local prod-server

192.168.1.17 dev-server.local dev-server

root@dev-server:~#

root@puppet-server:~#

root@puppet-server:~#

root@puppet-server:~#

root@puppet-server:~# curl -O https://apt.puppetlabs.com/puppetlabs-release-pc1-xenial.deb

% Total % Received % Xferd Average Speed Time Time Time Current

Dload Upload Total Spent Left Speed

100 13662 100 13662 0 0 23996 0 --:--:-- --:--:-- --:--:-- 24010

root@puppet-server:~# dpkg -i puppetlabs-release-pc1-xenial.deb

Selecting previously unselected package puppetlabs-release-pc1.

(Reading database ... 92148 files and directories currently installed.)

Preparing to unpack puppetlabs-release-pc1-xenial.deb ...

Unpacking puppetlabs-release-pc1 (1.1.0-2xenial) ...

Setting up puppetlabs-release-pc1 (1.1.0-2xenial) ...

root@puppet-server:~# cat /etc/apt/sources.list.d/puppetlabs-pc1.list

# Puppetlabs PC1 xenial Repository

deb http://apt.puppetlabs.com xenial PC1

# Puppetlabs PC1 xenial Source Repository

# The source repos are commented out by default because we

# do not always make sources available for all packages or

# for all platforms. If you want to access the source repos,

# uncomment the following line.

#deb-src http://apt.puppetlabs.com xenial PC1

root@puppet-server:~#

Set up of puppetserver complete

Logical break from puppet server