## Apache Ambari Tutorial

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### Prerequisites

VirtualBox (https://www.virtualbox.org/wiki/Downloads)

Vagrant (http://vagrantup.com/)

### System Requirements

- ▶ Minimum 4GB RAM for the VM
- Virtualization enabled on BIOS

#### Prepare VM using Vagrant Folder Creation

#### Create a folder for this VM



#### Prepare VM using Vagrant Adding Vagrant Box

If you have Virtual Box and Vagrant installed on your system, change directory to it and issue the following command:

vagrant box add hdp\_vm https://github.com/2creatives/vagrantcentos/releases/download/v6.5.1/centos65x86\_64-20131205.box 

 I. bash

 HW10403:hdp\_vm ssen\$ vagrant box add hdp\_vm https://github.com/2creatives/vagran

 t-centos/releases/download/v6.5.1/centos65-x86\_64-20131205.box

 Downloading box from URL: https://github.com/2creatives/vagrant-c

 download/v6.5.1/centos65-x86\_64-20131205.box

 Extracting box...te: 1526k/s, Estimated time remaining: --:--:-)

 Successfully added box 'hdp\_vm' with provider 'virtualbox'!

 HW10403:hdp\_vm ssen\$

#### Prepare VM using Vagrant Init the VM configuration

Once it has completed the download and added to your library of VMs with the name hdp\_vm, issue the command:

vagrant init hdp\_vm

This will create a file "Vagrantfile" in the folder. Open it in a text editor.



# Prepare VM using Vagrant Change Forwarded Port

- Edit the 'Vagrantfile', so that port 8080 on the VM is forwarded to port 8080 on the host.
- If that port already use, change it to another port number.

000	1. vim	10
<pre># All Vagrant config # options are document # please see the oplic</pre>	uration is done here. The most common nted and commented below. For a comple ine documentation at vaarantup com	configuration te reference,
* preuse see ene one	the abcunctication at vagi array com	
<pre># Every Vagrant virtu config.vm.box = "hdp_</pre>	ual environment requires a box to buil _vm"	d off of.
# The url from where	the 'config.vm.box' box will be fetch	ed if it
# doesn't already ext	ist on the user's system.	
<pre># config.vm.box_url =</pre>	= "http://domain.com/path/to/above.box	
# Create a forwarded	port mapping which allows access to a	specific port
# within the machine	from a port on the host machine. In t	he example below,
# accessing "localhos	st:8080" will access port 80 on the gu	est machine.
config.vm.network :for	warded_port, guest: 8080 <mark>,</mark> host: 8080 ,	
# Create a private no	etwork, which allows host-only access	to me chine
# using a specific I	Ρ.	
<pre># config.vm.network</pre>	:private_network, ip: "192.168.33.10"	
# Create a public net	twork, which generally matched to brid	ged network.
# Bridged networks ma	ake the machine appear as another phys	ical device on
# your network.		
INSERT		

## Prepare VM using Vagrant Change VM Memory Allocation

- Modify the settings so that the VM is assigned adequate memory once it launched.
- At least 4GB of RAM needed for this VM to run well.

```
000
                                     1. vim
 # Default value: false
 # config.ssh.forward_agent = true
 # Share an additional folder to the guest VM. The first argument is
 # the path on the host to the actual folder. The second argument is
 # the path on the guest to mount the folder. And the optional third
 # argument is a set of non-required options.
 # config.vm.synced_folder "../data", "/vagrant_data"
 # Provider-specific configuration so you can fine-tune various
 # backing providers for Vagrant. These expose provider-specific options.
 # Example for VirtualBox:
  #
 config.vm.provider :virtualbox do [vb]
     # Don't boot with headless mode
     vb.gui = true
     # Use VBoxManage to customize the VM. For example to change memory:
    vb.customize ["modifyvm", :id, "--memory", "8192"]
 end
 # View the documentation for the provider you're using for more
 # information on available options.
--- INSERT ---
```

# Prepare VM using Vagrant Start up The VM

- Now you can start your VM using this command: vagrant up
- Once the VM launched, SSH in and login as root and change the home directory of the 'root'.

000	1. root@vagrant-centos65:~ (ssh)
HW10403:hdp_vm s Vagrantfile al running vagrant HW10403:hdp_vm s	sen\$ vagrant init ready exists in this directory. Remove it before init. seen\$ vagrant up
Edefault] Import	ing base box 'hdn ym
[default] Matchi	ing MAC address for NAT networking
[default] Settin	a the name of the VM
[default] Cleari	ng any previously set forwarded ports
[default] Cleari	ing any previously set network interfaces
[default] Prepar	ring network interfaces based on configuration
[default] Forwar	ding ports
[default] 22	=> 2222 (adapter 1)
[default] 808	0 => 8080 (adapter 1)
[default] Runnir	ng 'pre-boot' VM customizations🥜
[default] Bootir	ng VM
[default] Waitir	ng for machine to boot. This by take a few minutes
[default] Machir	ie booted and ready!
[default] Mounti	ing shared folders.
[default] /va	igrant
HW10403:hdp_vm s	sen\$ vagrant ssh
[vagrant@vagrant	:-centos65 ~]\$ sudo su 🔵
[root@vagrant-ce	entos65 vagrant]# cd ~
[root@vagrant-ce	entos65 ~]#

10

#### Configure the VM Find out VM Hostname

Find out the default hostname of the VM and note it down. You can type this command:

hostname

000	1. root@vagrant-centos65:~ (ssh)	3
[root@vaarant-ce	entos65 ~1# hostname	R.
vagrant-centos65	5.vagrantup.com	
[root@vagrant-ce	entos65 ~]#	

#### Configure the VM Configure VM '/etc/hosts'

Edit the '/etc/hosts' file so that we have an entry of previous hostname that we retrieve. 000

127.0.0.1

"/etc/hosts" 2L, 158C

000

127.0.0.1

::1

1. root@vagrant-centos65:~ (ssh)

1. root@vagrant-centos65:/home/vagrant (bash)

ost6.localdomain6

vagrant-centos65.vagrantup.com localhost

localhost localhost.localdomain localhost6

localhost localhost.localdomain localhost4 localhost4.localdomain4

localhost localhost.localdomain localhost6 localhost6.localdomain6

#### Configure the VM Install NTP service

Install NTP service using this following command:

yum install ntp

Once installed, turn on the NTP service with these command:

chkconfig ntpd on

Service ntpd start

Next we will install the wget utility with this following command:

yum install wget

000	1. ro	ot@vagrant	-centos65:/ł	nome/va	grant	(b	ash)	-	-	N. N.
(1/2): ntp-4 (2/2): ntpda	.2.6p5-1.e te-4.2.6p5	l6.centos.> -1.el6.cent	<86_64.rpm tos.x86_64.r	'pm		1 1	592 75	kB kB	00:00 00:00	
Total				126	kB/s	1	667	kB	00:05	
Running rpm_	check_debu	g								
Running Tran	saction Te	st								
Transaction	Test Succe	eded								
Running Tran	saction									
Installing	: ntpdate	-4.2.6p5-1.	el6.centos.	x86_64						1/2
Installing	: ntp-4.2	.6p5-1.el6.	centos.x86_	64						2/2
Verifying	: ntp-4.2	.6p5-1.el6.	centos.x86	64						1/2
Verifying	: ntpdate	-4.2.6p5-1.	el6.centos.	x86_64						2/2
Installed:										
ntp.x86_64	0:4.2.6p5	-1.el6.cent	tos							
Dependency I	nstalled:									
ntpdate.x8	6_64 0:4.2	.6p5-1.el6.	.centos							
Complete!					$\wedge$	0	1			
[root@vaaran	t-centos65	vaarant]#	vi /etc/hos	ts	A	5				
[root@vaaran	t-centos65	vaarant]#	chkconfig n	tpd on						-
[root@vaaran	t-centos65	vaarant]#	service ntp	d start			-			
Starting ntp	d:		and and a finite field of the fi				E	ок ј		

### Configure the VM Setting up password-less SSH

- Get a pair of keys using this command: ssh-keygen
- ▶ The keys will be placed in the folder .ssh.
  - Copy the id\_rsa file to /vagrant folder so that you can access the private key from the host machine as /vagrant is automatically the shared folder between host and guest OSs.
  - Also append id\_rsa.pub, the public key to the authorized\_keys keys file.

000	1. root@vagrant-centos65:~ (bash)	12
[root@vagrant-	<pre>     1. root@vagrant-centos65:~(bash)     #     #     ating public/private rsa key pair.     file in which to save the key (/root/.ssh/id_rsa):     ted directory '/root/.ssh'.     r passphrase (empty for no passphrase):         same passphrase again:         identification has been saved in /root/.ssh/id_rsa.     public key has been saved in /root/.ssh/id_rsa.pub.     key fingerprint is:         state directory '/root/.ssh'.         r passphrase imply for no passphrase):         same passphrase is:         r same passphrase is:         RSA 2048]+</pre>	
Generating pub	lic/private rsa key pair.	
Enter file in w	which to save the key (/root/.ssh/id_rsa):	
Created directed	bry '/root/.ssh'.	
Enter passphra	se (empty for no passphrase):	
Enter same pass	sphrase again:	
Your identific	ation has been saved in /root/.ssh/id_rsa.	
Your public key	y has been saved in /root/.ssh/id_rsa.pub.	
The key finger	print is:	
7d:28:ba:9b:48	:f1:d3:9b:f5:38:46:ec:40:e3:c4:30 root@vagrant-cen	tos65.vagrantup
com		
The key's rand	omart image is:	
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I E		
+		
=		
+500		
0 00 0		
· · · · ·		
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[root@vagrant-	centos65 ~]#	
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[root@vagrant-	1. root@vagrant-centos65:~/.ssh (bash)	10
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#### Setup Ambari Add Ambari Repository list

```
Download and copy the Ambari repository bits to
'/etc/yum.repos.d':
```

wget <u>http://public-repo-</u> <u>1.hortonworks.com/ambari/centos6/1.x/updates</u> /1.4.3.38/ambari.repo

cp ambari.repo /etc/yum.repos.d

Double check that repo has been configured correctly by run this command:

yum repolist

000	1. root@vagrant-centos65:~	/.ssh (bash)	R <sub>M</sub>
[root@vagrant-cento [root@vagrant-cento entos6/1.x/updates, 2014-02-06 18:07	<pre>ps65 .ssh]# cat id_rsa.pub &gt;&gt; ps65 .ssh]# wget http://public /1.4.3.38/ambari.repo :29 http://public-repo.</pre>	authorized_keys c-repo-1.hortonwor	ks.com/ambari/c ari/centos6/1.x
/updates/1.4.3.38/c Resolving public-re	ambari.repo epo-1.hortonworks.com 205.2	251.215.199, 54.23	0.140.152, 54.2
Connecting to publi HTTP request sent, Length: 770 [binary Saving to: "ambari	ic-repo-1.hortonworks.com 205 awaiting response 200 OK y/octet-stream] .repo"	.251.215.1991:80	. connected.
100%[	>] 77	70K/s	in 0.002s
2014-02-06 18:07:34	4 (364 KB/s) - "ambari.repo" :	saved [770/770]	
[root@vagrant-cento [root@vagrant-cento Loaded pluains: fag	os65 .ssh]# mv ambari.repo /et os65 .ssh]# yum repolist stestmirror	tc/yum.repos.d	
Loading mirror spece * base: centos-min * enel: mirrors sc	eds from cached hostfile rror.jchost.net		
* extras: centos.	sonn.com -distro.cavecreek.net		

### Setup Ambari Installing Ambari

Now, we can install Ambari Server using this command:

yum install ambari-server

000	1. root@vagrant-centos6	5:~ (bash)	_	27
* updates: centos-di	stro.cavecreek.net			
HDP-UTILS-1.1.0.16		1	2.9 kB	00:00
HDP-UTILS-1.1.0.16/pr	imary_db	1	35 kB	00:00
Updates-ambari-1.4.3.	38	1	2.9 kB	00:00
Updates-ambari-1.4.3.	38/primary_db	1	4.6 kB	00:00
ambari-1.x		1	1.3 kB	00:00
ambari-1.x/primary		1	1.9 kB	00:00
ambari-1.x				5/5
repo id	repo name			status
HDP-UTILS-1.1.0.16	Hortonworks Data Platfo	orm Utils Ve	rsion - H	DP-UT 61
Updates-ambari-1.4.3.	38 ambari-1.4.3.38 - Updat	tes		5
ambari-1.x	Ambari 1.x			5
base	CentOS-6 - Base			6,359+8
epel	Extra Packages for Ente	erprise Linu	x 6 - x86.	_64 10,440
extras	CentOS-6 - Extras			14
updates	CentOS-6 - Updates			447+16
repolist: 17,331				
[root@vagrant-centos6	5 .ssh]#			
[root@vagrant-centos6	5 .ssh]#			
[root@vagrant-centos6	5 .ssh]# cd ~			
[root@vagrant-centos6	5 ~]# yum install ambari-s	server		
Loaded plugins: faste	stmirror			
Loading mirror speeds	from cached hostfile			

#### Setup Ambari Configuring Ambari

After the installation finish, we can configure Ambari using this command:

ambari-server setup

You can proceed with the default configuration during the process.

000	1. root@vagrant-centos65:~ (bash)	12
Installing	: postgresql-libs-8.4.18-1.el6_4.x86_64	1/4
Installing	: postgresql-8.4.18-1.el6_4.x86_64	2/4
Installing	: postgresql-server-8.4.18-1.el6_4.x86_64	3/4
Installing	: ambari-server-1.4.3.38-1.noarch	4/4
Verifying	: ambari-server-1.4.3.38-1.noarch	1/4
Verifying	: postgresql-libs-8.4.18-1.el6_4.x86_64	2/4
Verifying	: postgresql-8.4.18-1.el6_4.x86_64	3/4
Verifying	: postgresql-server-8.4.18-1.el6_4.x86_64	4/4

#### Installed:

ambari-server.noarch 0:1.4.3.38-1

Dependency Installed:

postgresql.x86\_64 0:8.4.18-1.el6\_4
postgresql-libs.x86\_64 0:8.4.18-1.el6\_4
postgresql-server.x86\_64 0:8.4.18-1.el6\_4

#### Complete!

[root@vagrant-centos65 ~]# ambari-server setup Using python /usr/bin/python2.6 Setup ambari-server Checking SELinux... SELinux status is 'disabled' Customize user account for ambari-server daemon [y/n] (n)?

#### Setup Ambari Pseudo-cluster with Ambari

- After finishing the configuration, you can access Ambari from your host machine using your web browser.
- Access URL is <u>http://localhost:8080</u>, or change 8080 with your defined port in the configuration phase before.
- Default username and password is 'admin' and 'admin'.



#### Setup Ambari Pseudo-cluster with Ambari (cont.)

- After login, if this your first time login to the Ambari, it will serve you wizard setup to create your cluster.
- Name your cluster.
- Select Hadoop version.
- Input the hostname of your VM and click on the Choose File button to upload your SSH private key before.
- Select services that you want to install.



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#### Setup Ambari **Pseudo-cluster with Ambari (cont.)**

- Finish the wizard.
- And now we have our Hadoop VM installed.



## 감사합니다 Thank You