

使用consul公司下面的产品vagrant

参考

<https://segmentfault.com/a/1190000015270309>

<https://blog.csdn.net/qianghaohao/article/details/80038096>

## 1.下载box文件

下载地址:

<https://pan.baidu.com/s/1wJCeWEyxKQLVPi1IH1IYg>

## 2.向vagrant中添加box

执行:

```
1 ./vagrant box add vagrant-ubuntu ubuntu-server-16.04-amd64-vagrant.box
```

日志:

```
1 → vagrant ./vagrant box add vagrant-ubuntu ubuntu-server-16.04-amd64-vagrant.box
2 ==> box: Box file was not detected as metadata. Adding it directly...
3 ==> box: Adding box 'vagrant-ubuntu' (v0) for provider:
4 box: Unpacking necessary files from: file:///home/ryzc/springcloud/vagrant/ubuntu-server-16.04-amd64-vagrant.box
5 ==> box: Successfully added box 'vagrant-ubuntu' (v0) for 'virtualbox'!
```

## 3.初始化box

```
1 → vagrant ./vagrant init vagrant-ubuntu
2 A `Vagrantfile` has been placed in this directory. You are now
3 ready to `vagrant up` your first virtual environment! Please read
4 the comments in the Vagrantfile as well as documentation on
5 `vagrantup.com` for more information on using Vagrant.
```

## 4.安装virtualbox

成功启动vagrant需要virtualbox

没有virtualbox会报错:

```
1 → vagrant ./vagrant up
2 No usable default provider could be found for your system.
3
4 Vagrant relies on interactions with 3rd party systems, known as
5 "providers", to provide Vagrant with resources to run development
6 environments. Examples are VirtualBox, VMware, Hyper-V.
```

```
7
8 The easiest solution to this message is to install VirtualBox, which
9 is available for free on all major platforms.
10
11 If you believe you already have a provider available, make sure it
12 is properly installed and configured. You can see more details about
13 why a particular provider isn't working by forcing usage with
14 `vagrant up --provider=PROVIDER`, which should give you a more specific
15 error message for that particular provider.
```

安装:

报错, 缺少依赖包libcurl3

```
1 → virtualbox sudo dpkg -i virtualbox-6.0_6.0.0-127566_Ubuntu_xenial_amd64.deb
2 [sudo] password for ryzc:
3 Selecting previously unselected package virtualbox-6.0.
4 (Reading database ... 272946 files and directories currently installed.)
5 Preparing to unpack virtualbox-6.0_6.0.0-127566_Ubuntu_xenial_amd64.deb
6 ...
7 Unpacking virtualbox-6.0 (6.0.0-127566~Ubuntu~xenial) ...
8 dpkg: dependency problems prevent configuration of virtualbox-6.0:
9   virtualbox-6.0 depends on libcurl3 (>= 7.16.2); however:
10     Package libcurl3 is not installed.
11
12 dpkg: error processing package virtualbox-6.0 (--install):
13   dependency problems - leaving unconfigured
14 Processing triggers for libc-bin (2.23-0ubuntu10) ...
15 Processing triggers for systemd (229-4ubuntu21.10) ...
16 Processing triggers for ureadahead (0.100.0-19) ...
17 ureadahead will be reprofiled on next reboot
18 Processing triggers for hicolor-icon-theme (0.15-0ubuntu1.1) ...
19 Processing triggers for shared-mime-info (1.5-2ubuntu0.2) ...
20 Processing triggers for mime-support (3.59ubuntu1) ...
21 Errors were encountered while processing:
22   virtualbox-6.0
```

安装libcurl3

```
1 → virtualbox sudo apt-get install libcurl3
2 Reading package lists... Done
3 Building dependency tree
4 Reading state information... Done
```

```

5 The following packages were automatically installed and are no longer required:
6 linux-image-4.4.0-127-generic linux-image-extra-4.4.0-127-generic linux-
signed-image-4.4.0-127-generic
7 Use 'sudo apt autoremove' to remove them.
8 The following NEW packages will be installed:
9 libcurl3
10 0 upgraded, 1 newly installed, 0 to remove and 9 not upgraded.
11 1 not fully installed or removed.
12 Need to get 186 kB of archives.
13 After this operation, 564 kB of additional disk space will be used.
14 Get:1 https://mirrors.tuna.tsinghua.edu.cn/ubuntu xenial-updates/main am
d64 libcurl3 amd64 7.47.0-1ubuntu2.11 [186 kB]
15 Fetched 186 kB in 0s (318 kB/s)
16 Selecting previously unselected package libcurl3:amd64.
17 (Reading database ... 273783 files and directories currently installed.)
18 Preparing to unpack .../libcurl3_7.47.0-1ubuntu2.11_amd64.deb ...
19 Unpacking libcurl3:amd64 (7.47.0-1ubuntu2.11) ...
20 Processing triggers for libc-bin (2.23-0ubuntu10) ...
21 Setting up libcurl3:amd64 (7.47.0-1ubuntu2.11) ...
22 Setting up virtualbox-6.0 (6.0.0-127566~Ubuntu~xenial) ...
23 Adding group `vboxusers' (GID 127) ...
24 Done.
25 Processing triggers for libc-bin (2.23-0ubuntu10) ...

```

## 再次安装virtualbox

```

1 → virtualbox sudo dpkg -i virtualbox-6.0_6.0.0-127566_Ubuntu_xenial_amd6
4.deb
2 (Reading database ... 273791 files and directories currently installed.)
3 Preparing to unpack virtualbox-6.0_6.0.0-127566_Ubuntu_xenial_amd64.deb
...
4 Unpacking virtualbox-6.0 (6.0.0-127566~Ubuntu~xenial) over (6.0.0-
127566~Ubuntu~xenial) ...
5 Setting up virtualbox-6.0 (6.0.0-127566~Ubuntu~xenial) ...
6 addgroup: The group `vboxusers' already exists as a system group.
Exiting.
7 Processing triggers for libc-bin (2.23-0ubuntu10) ...
8 Processing triggers for systemd (229-4ubuntu21.10) ...
9 Processing triggers for ureadahead (0.100.0-19) ...
10 Processing triggers for hicolor-icon-theme (0.15-0ubuntu1.1) ...
11 Processing triggers for shared-mime-info (1.5-2ubuntu0.2) ...
12 Processing triggers for mime-support (3.59ubuntu1) ...

```

## 5.启动vagrant

报错，应该是IP设置问题

```
1 → vagrant ./vagrant up
2 Bringing machine 's2' up with 'virtualbox' provider...
3 Bringing machine 's3' up with 'virtualbox' provider...
4 ==> s2: Importing base box 'vagrant-ubuntu'...
5 ==> s2: Matching MAC address for NAT networking...
6 ==> s2: Setting the name of the VM: vagrant_s2_1547538498455_47535
7 Vagrant is currently configured to create VirtualBox synced folders with
8 the `SharedFoldersEnableSymlinksCreate` option enabled. If the Vagrant
9 guest is not trusted, you may want to disable this option. For more
10 information on this option, please refer to the VirtualBox manual:
11
12 https://www.virtualbox.org/manual/ch04.html#sharedfolders
13
14 This option can be disabled globally with an environment variable:
15
16 VAGRANT_DISABLE_VBOXSYMLINKCREATE=1
17
18 or on a per folder basis within the Vagrantfile:
19
20 config.vm.synced_folder '/host/path', '/guest/path', SharedFoldersEnableSymlinksCreate: false
21 ==> s2: Clearing any previously set network interfaces...
22 The specified host network collides with a non-hostonly network!
23 This will cause your specified IP to be inaccessible. Please change
24 the IP or name of your host only network so that it no longer matches that
25 of a bridged or non-hostonly network.
26
27 Bridged Network Address: '192.168.100.0'
28 Host-only Network 'eno1': '192.168.100.0'
```

我原来设置的s2、s3的IP是192.168.100.151和192.168.100.152

有下面的议题可以知道，只要把第三段100的值和原IP错开就可以了

<https://stackoverflow.com/questions/39049717/vagrant-network-collides-with-a-non-hostonly-network>

改成s2、s3的IP分别改成192.168.110.151和192.168.110.152就OK了

## 成功启动

```
1 → vagrant ./vagrant up
2 Bringing machine 's2' up with 'virtualbox' provider...
3 Bringing machine 's3' up with 'virtualbox' provider...
4 ==> s2: Machine already provisioned. Run `vagrant provision` or use the `
--provision`
5 ==> s2: flag to force provisioning. Provisioners marked to run always wil
1 still run.
6 ==> s3: Clearing any previously set forwarded ports...
7 ==> s3: Fixed port collision for 22 => 2222. Now on port 2200.
8 ==> s3: Clearing any previously set network interfaces...
9 ==> s3: Preparing network interfaces based on configuration...
10 s3: Adapter 1: nat
11 s3: Adapter 2: hostonly
12 ==> s3: Forwarding ports...
13 s3: 22 (guest) => 2200 (host) (adapter 1)
14 ==> s3: Running 'pre-boot' VM customizations...
15 ==> s3: Booting VM...
16 ==> s3: Waiting for machine to boot. This may take a few minutes...
17 s3: SSH address: 127.0.0.1:2200
18 s3: SSH username: ubuntu
19 s3: SSH auth method: password
20 s3: Warning: Connection reset. Retrying...
21 s3: Warning: Remote connection disconnect. Retrying...
22 s3: Warning: Authentication failure. Retrying...
23 s3:
24 s3: Inserting generated public key within guest...
25 s3: Removing insecure key from the guest if it's present...
26 s3: Key inserted! Disconnecting and reconnecting using new SSH key...
27 ==> s3: Machine booted and ready!
28 ==> s3: Checking for guest additions in VM...
29 s3: The guest additions on this VM do not match the installed version o
f
30 s3: VirtualBox! In most cases this is fine, but in rare cases it can
31 s3: prevent things such as shared folders from working properly. If you
see
32 s3: shared folder errors, please make sure the guest additions within t
he
33 s3: virtual machine match the version of VirtualBox you have installed
on
34 s3: your host and reload your VM.
```

```
35 s3:
36 s3: Guest Additions Version: 5.0.40
37 s3: VirtualBox Version: 6.0
38 ==> s3: Setting hostname...
39 ==> s3: Configuring and enabling network interfaces...
40 ==> s3: Mounting shared folders...
41 s3: /vagrant => /home/ryzc/springcloud/vagrant
```

## 配置文件备份



Vagrantfile  
3.43KB

## 6.连接虚拟机

```
1 → vagrant ./vagrant ssh s2
2 Welcome to Ubuntu 16.04.3 LTS (GNU/Linux 4.4.0-98-generic x86_64)
3
4 * Documentation: https://help.ubuntu.com
5 * Management: https://landscape.canonical.com
6 * Support: https://ubuntu.com/advantage
7
8 Get cloud support with Ubuntu Advantage Cloud Guest:
9 http://www.ubuntu.com/business/services/cloud
10
11 0 packages can be updated.
12 0 updates are security updates.
13
14 New release '18.04.1 LTS' available.
15 Run 'do-release-upgrade' to upgrade to it.
```

