

Vagrant Setup

Vagrant installs at c:\hashicorp\vagrant

Some files for Vagrant are located at c:\users\ *users name* \vagrant.d

Hyper-V & Virtual Box cannot run simultaneously

Make a directory for each separate vm only 1 vagrant file can exist per directory

i.e. c:\hashicorp\vagrant\ansible

c:\hashicorp\vagrant\debian10

c:\hashicorp\vagrant\netbox

Initial Configuration

vagrant init [Initializes new vagrantfile] **vagrant init hashicorp / precise64**

Only 1 vagrantfile can exist per directory

rm vagrantfile [deletes vagrantfile] **rm vagrant hashicorp / precise64**

General Info & Day-to-Day Maintenance

vagrant box list | [all available vagrant boxes on this endpoint]

vagrant box add <name> or <url> | downloads box image to your endpoint

vagrant box remove <name> | deletes box from endpoint

vagrant box outdated | [checks for box updates]

vagrant status | [status of current vagrant endpoint]

vagrant global-status

i.e. c:\users\msmith\msmith097>

```
| id name provider state directory
```

```
| b2bcba9 default hyperv running C:/hashicorp/Vagrant
```

```
| a226748 default hyperv running C:/Users/msmith097
```

vagrant package | packages a running environment in a reusable box

Vagrant Use Commands [Run in Project Directory]

vagrant init | initializes a new vagrantfile

vagrant init hashicorp/precise64 | new vagrantfile based on existing box

vagrant up

vagrant ssh

vagrant suspend

vagrant resume

vagrant halt

vagrant reload | restarts box w/ new configuration

vagrant destroy | destroys current endpoint not the base box

vagrant --version

Vagrant Share/Remote Access

vagrant share | share your environment with anyone

vagrant connect | connect to a shared endpoint

vagrant hosts | all hostnames managed by plugin

vagrant hostmanager | manages /etc/hosts within a multi machine environment

vagrant ssh-config | provides connect config for machine

vagrant rdp | connects to other machine via rdp

Customization

```
vagrant.configure("2") do |config|
  config.vm.box = "hashicorp/precise64"
  # guest is the VM; host is your computer end
  config.vm.network "forwarded_port", guest: 80,
  host: 8080
  config.vm.provision :shell, path:
  "my_bash_script.sh"
  # path is relative to your Vagrantfile
end
```

By default ./ on your computer is shared as /vagrant on the vm; allowing other to access your VM

Create Base Boxes

vagrant provision |

vagrant push | deploys code to a configured destination



Create Base Boxes (cont)

vagrant package | creates a box from a working environment
 pe-build | command related to a pe installation

Website Resources

<https://learn.hashicorp.com/tutorials/vagrant/getting-started-boxes>
<https://app.vagrantup.com/boxes/search>
<https://www.vagrantbox.es/>

Advanced Vagrant Box Mgmt

vagrant global-status | status of all vagrant endpoints
 vagrant global-status --prune | status of all boxes; dropping invalid entries
 vagrant box remove | deletes a copied end point
 vagrant provision | forces end point to re-provision
 vagrant reload -provision | restart end point forcing provisioning
 vagrant provision --debug | increases verbosity during debug
 vagrant up --provision | tee provision.log | runs vagrant up provisioning & output logs placed in a file

enable VBGuest auto update

vagrant global-status PS C:\Users\msmith097> vagrant global-status

[displays status for all endpoints]

```
id name provider state directory -----
----- b2bcba9
default hyperv running C:/hashicorp/Vagrant
a226748 default hyperv running C:/Users/msm-
ith097
```

Vagrant Base Boxes [standard templates]

\$ vagrant box add {title} or {url} hashicorp/precise64
 bento/centos-7
 bento/ubuntu-16.04
 ubuntu/trusty64

Vagrant Plugins

vagrant plugin | manages all plugins
 vagrant plugin install | installs virtual box tools
 vagrant-vbguest
 vagrant plugin install vagrant-hostmanager
 - manages /etc/hosts within a multi machine environment
 vagrant plugin install vagrant-env
 | vagrant plugin install UPdates /etc/hosts file each time
 vagrant-hostsupdater vagrant stops or starts

Windows Base Box [vagrant box add]

<http://aka.ms/msedge.win10.vagrant>
<http://aka.ms/ie8.xp.vagrant>
<http://aka.ms/ie10.win7.vagrant>

Vagrant Logs

vagrant up --provision | tee provision.log | forces provisioning and writes a log
 vagrant_log=info vagrant up | use env var VAGRANT_LOG to set verbosity

Customize the Vagrantfile

Configure Base Boxes

```
Vagrant.configure("2") do |config|
  config.vm.box = "hashicorp/precise64" end
```

Set base box with version number

```
Vagrant.configure("2") do |config|
  config.vm.box = "hashicorp/precise64"
  config.vm.box_version = "1.1.0"
end
```

via url

```
Vagrant.configure("2") do |config|
  config.vm.box = "hashicorp/precise64"
  config.vm.box_url = "https://vagrantcloud.com/hashicorp/precise-64"
```



Notes

If a PC goes to sleep, vagrant boxes will be forceably shutdown but no data should be lost

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