

### 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**vagrant box outdated** | [checks for box updates]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 -----
----- b2bcb9
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"
```



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### Notes

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

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