

### Vagrant Setup

Vagrant installs at c:\hashicorp\vagrant

Make a directory for each separate vm <sup>only 1 vagrant file can exist per directory</sup>

```
i.e. c:\has hic orp \va gra nt \ansible
      c:\has hic orp \va gra nt \deb ian10
      c:\has hic orp \va gra nt \netbox
```

### Initial Config [/hashicorp/vagrant/precise64]

**vagrant init** [Initializes new vagrant file]

**vagrant up** [starts the box]

**rm Vagrantfile** [removes vagrant init]

i.e. **vagrant init hashicorp/precise64**

### General Vagrant Maintenance

see adjacent screen shot

**vagrant box list** | lists all available vagrant boxes on this endpoint

**vagrant status** | displays status for box in current directory

**vagrant box outdated** | checks if box is up to date  
must run from a box path

**vagrant global-status** | displays status for all local boxes

**vagrant global-status --prune** | status of all boxes; dropping invalid entries

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

**vagrant box remove <name>** | deletes box from endpoint

**vagrant package** | packages a running environment in a reusable box

### Advanced Vagrant Box Mgmt

**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** | runs vagrant up provisioning & output tee provision.log  
logs placed in a file

**enable VBGuest auto update**

### Notes / Alerts

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

### Website Resources

<https://learn.hashicorp.com/tutorials/vagrant/getting-started-boxes>

<https://app.vagrantup.com/boxes/search>

<https://www.vagrantbox.es/>

### 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

### Vagrant Box List

```
PS C:\Users\mth0978\COSM-C051684 /cygdrive/c/hashicorp/vagrant/ansi
$ vagrant box list
ansible/tower (virtualbox, 3.8.6)
bento/debian-11.5 (parallels, 202212.12.0)
debian/buster64 (virtualbox, 10.20220912.1)
generic/debian10 (virtualbox, 4.1.18)
```



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### Vagrant Status

```

mhmth09@C09L-C011684 /cydrive/c/hashicorp/vagrant/ansible
$ vagrant status
Current machine states:

default                poweroff (virtualbox)

The VM is powered off. To restart the VM, simply run 'vagrant up'
    
```

### Vagrant Global-Status

```

mhmth09@C09L-C011684 ~
$ vagrant global-status
id      name      provider  state  directory
-----
1e5891a default  virtualbox running C:/hashicorp/vagrant/ubuntu-ansible
70aDefF webservr  virtualbox running C:/hashicorp/vagrant/Ansible
5071a0e default  virtualbox poweroff C:/hashicorp/vagrant/debian
6f52bb0 default  virtualbox poweroff C:/hashicorp/vagrant/bionic64
d9c2572 default  virtualbox poweroff C:/hashicorp/vagrant/Ansible
    
```

### Vagrant Box Outdated

```

mhmth09@C09L-C011684 /cydrive/c/hashicorp/vagrant/ansible
$ vagrant box outdated
Checking if box 'ansible/tower' version '3.8.0' is up to date...
    
```

### Vagrant Box Add [name]

```

mhmth09@C09L-C011684 ~
$ vagrant box add bento/debian-11.5
=> box: Loading metadata for box 'bento/debian-11.5'
   box URL: https://vagrantcloud.com/bento/debian-11.5
=> box: Adding box 'bento/debian-11.5' (v202212.12.0) for provider: parallels
   box: Downloading: https://vagrantcloud.com/bento/boxes/debian-11.5/versions/202212.12.0/providers/parallels.box
   box:
=> box: Successfully added box 'bento/debian-11.5' (v202212.12.0) for 'parallels'
    
```

### Vagrant Use Commands [Run in Project Path]

vagrant ssh

vagrant ssh config

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 Plugins

vagrant plugin | manages all plugins

vagrant plugin install vagrant-t-vbguest | installs virtual box tools

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

### Vagrant Share/Remote Access

vagrant share | share your environment with anyone

vagrant connect | connect to a shared end point

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

