


Cheat Sheet



Terms and Definitions

**Box** A prepackaged Vagrant environment that is the same on any computer in which it is provisioned.

**Provider** The underlying system that manages the virtual machines, such as VirtualBox and Docker.

**Provisioner** Systems that allow you to install software and otherwise configure guest machines, such as Chef and Puppet.

**Vagrantfile** A single file used to define the desired Vagrant environment; written in Ruby.

Commands

```

vagrant init
>> Initialize the directory as a Vagrant environment; creates Vagrantfile.

vagrant box add <boxname>
>> Add a Vagrant box to to environment.

vagrant up
>> Create and configure the guest machine(s) defined in the Vagrantfile.

vagrant ssh
>> SSH into a guest machine; include hostname in multi-machine environments.

vagrant halt
>> Attempt a graceful shutdown of the guest machine(s)

vagrant suspend
>> Suspend the machine(s) in its current state; does not shut down machine(s).

vagrant resume
>> Start stopped guest machine(s), whether halted or suspended.

vagrant reload
>> Reboot guest machine; the same as running vagrant halt then vagrant resume.

vagrant status
>> View state of machines managed by Vagrant

vagrant destroy
>> Remove guest machine(s).

```

Example Vagrantfile - CentOS 7 with Apache

```

# The $samplescript variable uses Ruby to feed in a script that runs upon
# provisioning:

$samplescript = <<SCRIPT
yum install -y httpd
systemctl enable httpd
systemctl start httpd
SCRIPT

# Define Vagrant configuration version (2):

Vagrant.configure(2) do |config|

# Define what box to use (CentOS 7):

config.vm.box = "centos/7"

# Define hostname (myhost); most useful for environments with multiple guests:

config.vm.hostname = "myhost"

# Configure private network IP address:

config.vm.network "private_network", ip: "192.168.50.10"

# Sync files between local src/ folder and guest /var/www/html folder:

config.vm.synced_folder "src/", "/var/www/html"



# Provision guest with $samplescript variable; uses shell scripting:

config.vm.provision "shell", inline: $samplescript

# Set guest options for VirtualBox, including memory (1024), and CPU (2):

config.vm.provider "virtualbox" do |vb|
vb.memory = "1024"
vb.cpus = "2"
end
end

```

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