

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
```