

Quick start – Vagrant

AGENDA

- › What is a Vagrant ?
- › Vagrant Architecture
- › Vagrant Resources
- › Vagrant Basic commands
- › Vagrant Advanced commands



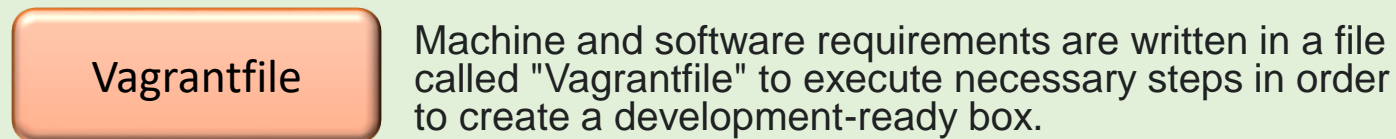
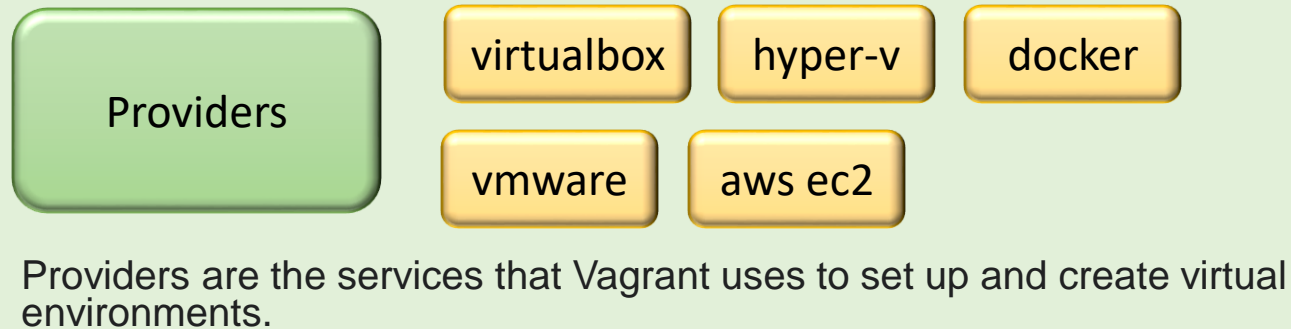
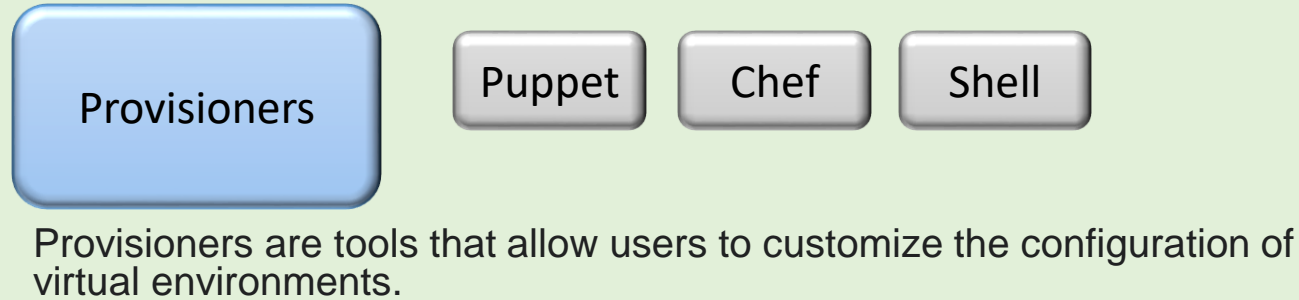
Quick start – Vagrant

- › What is a Vagrant?
- › Vagrant is an open-source software product for building and maintaining portable virtual software development environments; e.g., for VirtualBox, KVM, Hyper-V, Docker containers, VMware, and AWS.
- › It tries to simplify the software configuration management of virtualizations in order to increase development productivity.
- › Vagrant is written in the Ruby language

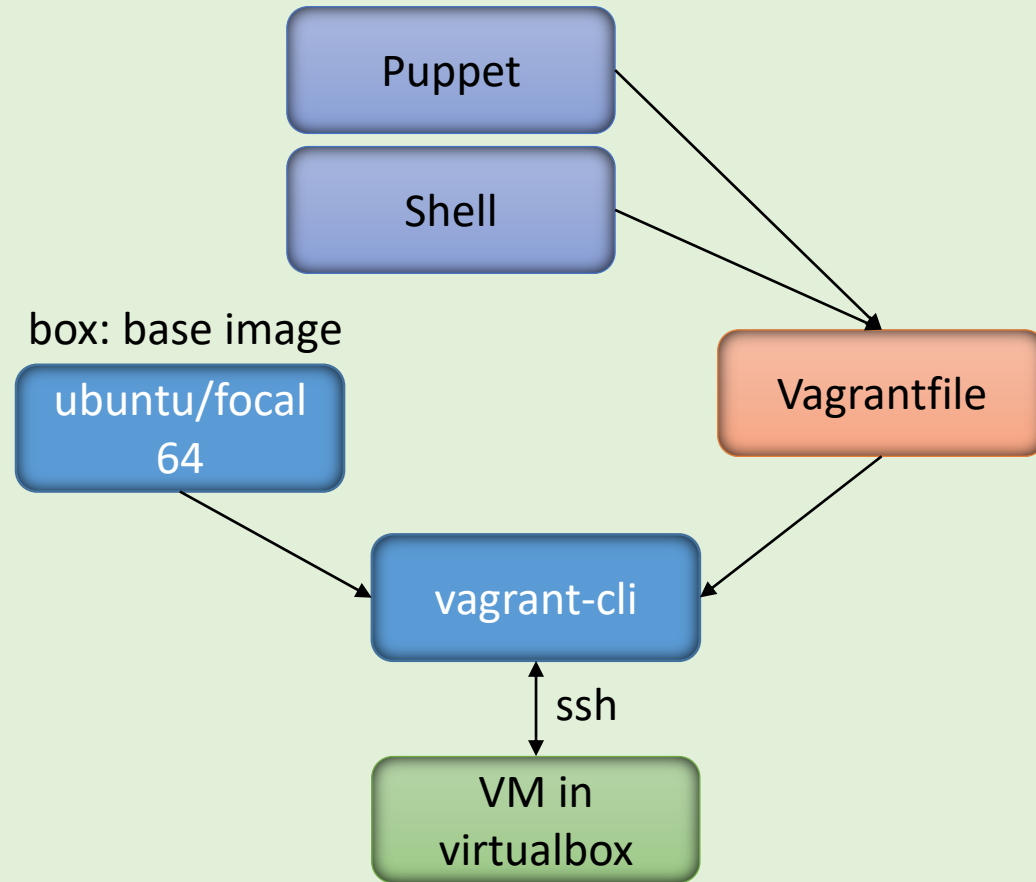


Quick start – Vagrant

› Vagrant Architecture



› Sample Workflow



Quick start – Vagrant

› Vagrant Resources

› Installation: <https://youtu.be/Ae-K0EqWTXo>

› Vagrant Demo:
https://github.com/santhosh2r2/SanthoshMeetsTech/tree/main/04_Quick%20start%20-%20Vagrant

› Vagrant Getting Started:
<https://learn.hashicorp.com/collections/vagrant/getting-started>

› Vagrant Docs: <https://www.vagrantup.com/docs>

› Vagrant Boxes: <https://app.vagrantup.com/boxes/search>



Quick start – Vagrant

› Vagrant basic commands

› Vagrant box add ubuntu/focal64

› vagrant init

› vagrant up/halt/suspend

› vagrant ssh

› vagrant destroy

› vagrant reload --provision

```
#!/usr/bin/env bash

apt-get update
apt-get install -y apache2
if ! [ -L /var/www ]; then
    rm -rf /var/www
    ln -fs /vagrant /var/www
fi
```

bootstrap.sh

```
Vagrant.configure("2") do |config|
  config.vm.box = "ubuntu/focal64"
  config.vm.provision :shell, path: "bootstrap.sh"
  config.vm.network :forwarded_port, guest: 80, host: 4567
end
```

Vagrantfile: provision, network

Quick start – Vagrant

> Vagrant advanced commands

> Create a free vagrant cloud account

> `vagrant package --output box-name.box`

> `vagrant cloud auth login`
 > username/password

> `vagrant cloud publish organization-name/box-name version provider PROVIDER-FILE --description "First release" --version-description "with mongodb and redis" --release`

```
$ vagrant package --output santhosh_ubuntu.box
==> default: Exporting VM...
==> default: Compressing package to:
C:/Users/basdemo/Desktop/test-vagrant/santhosh_ubuntu.box
```

```
$ vagrant cloud publish santhosh2r2/ubuntuFocal64_with_mongodb_redis 1.0.0
virtualbox santhosh_ubuntu.box
You are about to publish a box on Vagrant Cloud with the following options:
santhosh2r2/ubuntuFocal64_with_mongodb_redis: (v1.0.0) for provider
'virtualbox'
Do you wish to continue? [y/N]y
Saving box information...
Uploading provider with file C:/Users/basdemo/Desktop/test-
vagrant/santhosh_ubuntu.box

Complete! Published santhosh2r2/ubuntuFocal64_with_mongodb_redis
Box:                santhosh2r2/ubuntuFocal64_with_mongodb_redis
Description:
Private:            no
Created:            2021-01-02T16:36:52.039+01:00
Updated:            2021-01-02T16:36:52.039+01:00
Current Version:    N/A
Versions:           1.0.0
Downloads:          0
```

