

HOW TO SETUP YOUR PENTESTING LAB USING VAGRANT

WHO AM I ?

- Student in Vit Chennai
- Intern in Practical-Devsecops
- Interested in Mobile, Web ,Cloud Security and DevSecOps
- Active Member of null chennai

www.joshuaajebaraj.com

WHATS TOPICS

- What is vagrant ?
- Why vagrant ?
- Vagrant boxes
- Basic commands
- Understanding `VagrantFile`
- Setting up the lab

OUTCOME OF SESSION

- Understanding Basic Usage of Vagrant
- Lab setup

WHAT IS VAGRANT ?

- Tool for building and manage the virtual environment
- Infrastructure as a Code (IaaC)

WHY VAGRANT ?

- Easy to manage (CLI interface)
- Easy to scale
- Supports Different Provisioners
- Supports Different Platforms
(Linux,Windows,Mac)
- Support provisioning

HOW VAGRANT HELPS ?

- Developer - easy to setup the development environment
- Operation - easy to scale up and scale down
- For everyone who lazy like me

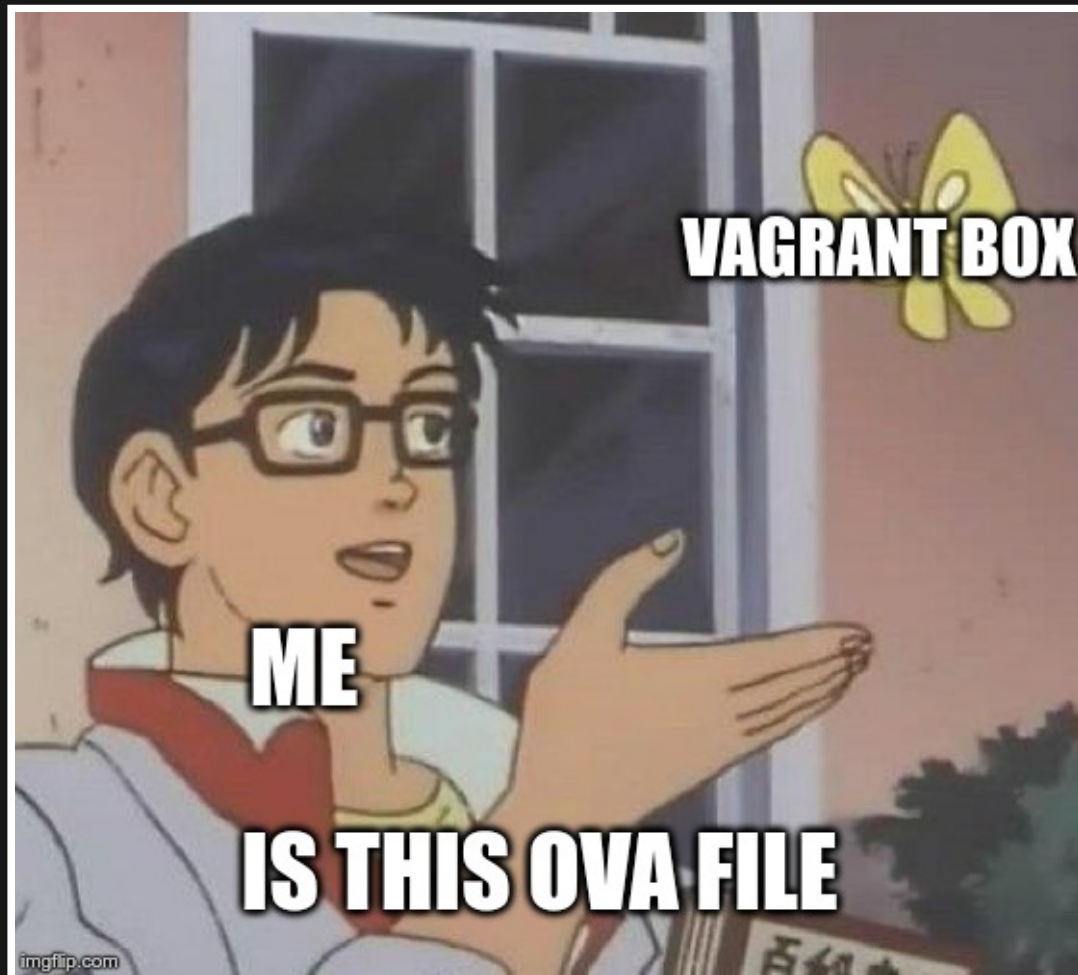
VAGRANT BOX

Box is something similar to the ova file

```
$ vagrant box add <box-name>  
                <provider>
```

```
$ vagrant box list
```

boxes



BASIC VAGRANT COMMAND

\$ `vagrant init <Box-name>` - initialize the
vagrantfile

\$ `vagrant up` - start the virtual machine

\$ `vagrant halt` - stops the virtual machine

\$ vagrant reload- reload the configuration

\$ vagrant ssh- login into the machine using ssh

\$ vagrant destroy- delete the machine

\$ vagrant status- finding the status

UNDERSTANDING THE VAGRANTFILE

- Was written in Ruby
- Consist of basic configuration

BASIC COMPONENTS IN THE VAGRANT FILE

Vagrant File

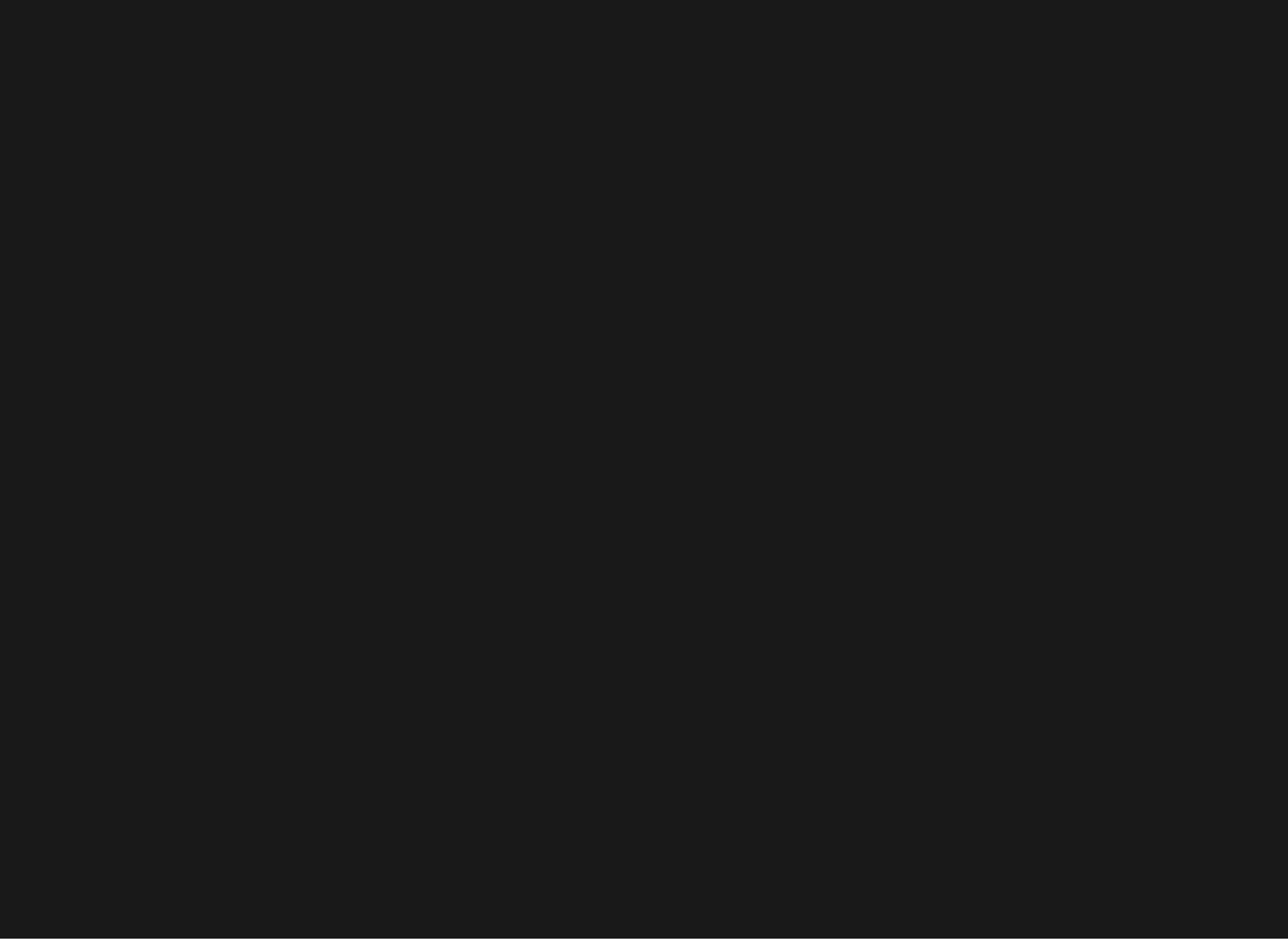
Box - Tells the Base Os

Provider - Tells the Provider

Network - Tells the Network

Sharedfolder- Tells the shared files

Provision - Tells the provision



Vagrant Provisioning



SETTING UP THE PENTESTING LAB (DEMO)

QUESTIONS & FEEDBACK



REFERENCES

1. <http://minimum-viable-automation.com/vagrant/setup-simple-vagrant-box-ansible-examples/>
2. <https://www.youtube.com/watch?v=vBreXjkizgo>
3. <https://www.vagrantup.com/intro/getting-started/>