



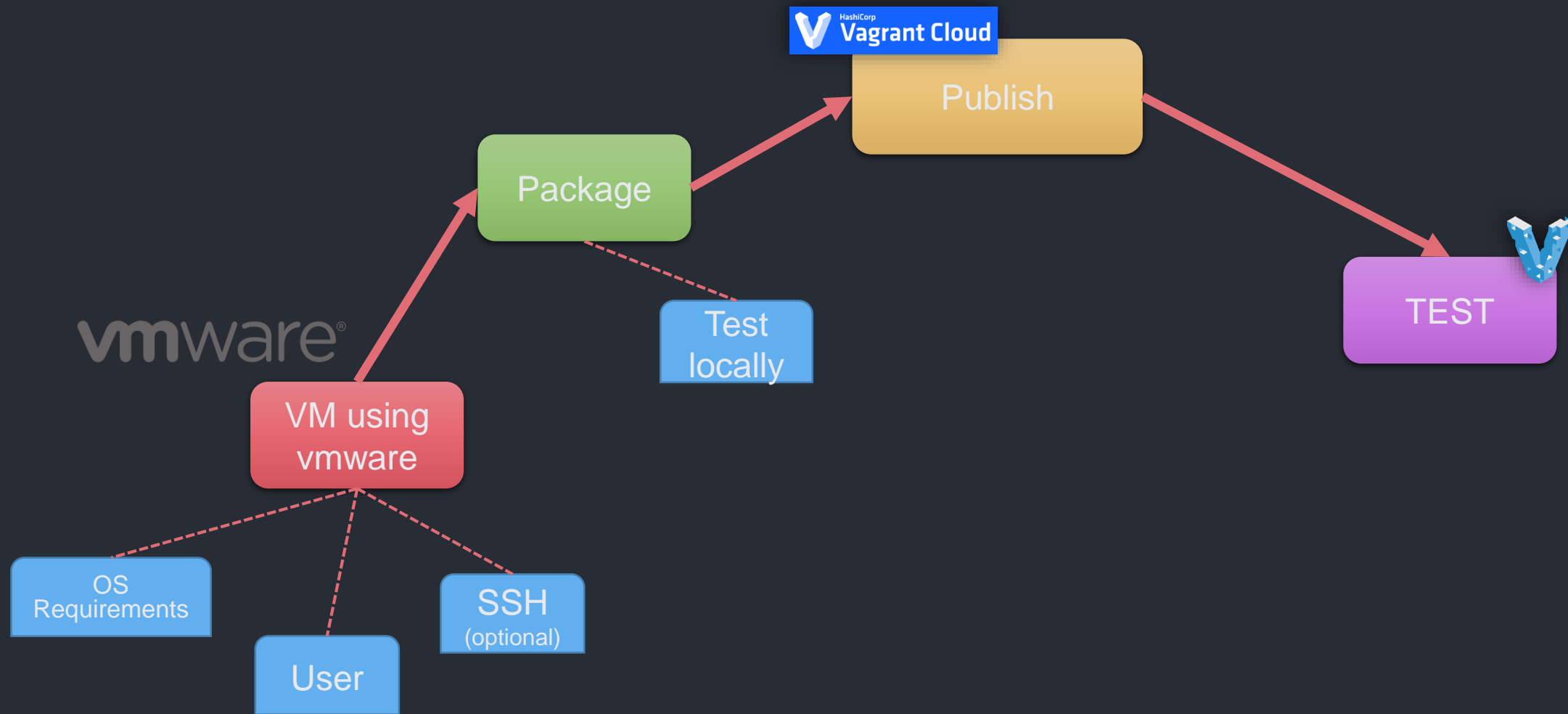
Vagrant Basebox - vmware

Santhosh

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OVERVIEW





STEPS

1. Prerequisites
2. Creating the virtual machine
 - User Account
 - SSH Settings (optional)
3. Create a Vagrant box
 - Package vm to box
 - Test it locally
 - Publish the box to vagrant cloud
4. TEST → Download the uploaded box





1. PREREQUISITES

- Softwares to be installed (minium version):
 - vagrant 2.2.14
 - vmware player 16.2.2 (license required for commerical use)
 - vagrant-vmware-utility 1.0.21



2. CREATE VM

- Checkout: <https://youtu.be/gm9HzK0Yab4>
- Create a virtual machine using Vmware with the downloaded Ubuntu 20.04 ISO file and name it **ubuntu-focal64-gui**
 - Hard-Disk : **80GB**, dynamically allocated
 - Network Adapter : **NAT**
 - RAM: **4096MB**





2. CREATE VM – USER

- Default User Settings:
 - Username: **vagrant**
 - Password: **vagrant**



2. CREATE VM

- Install following packages:
 - `sudo apt update`
 - `sudo apt install -y openssh-server open-vm-tools open-vm-tools-desktop`
 - `sudo ufw allow ssh`
- Password-less sudo: open
 - `sudo nano /etc/sudoers` or `sudo visudo`
 - append line `vagrant ALL=(ALL) NOPASSWD: ALL`



2. CREATE VM – SSH SETTINGS

optional

- Insecure KeyPair:

<https://github.com/hashicorp/vagrant/tree/main/keys>

- Place the contents of public key (vagrant.pub) in the file `~/.ssh/authorized_keys` or
- `echo "ssh-rsa
AAAAB3NzaC1yc2EAAAABIwAAAQEA6NF8iallvQVp22WDkTkyrtvp9eWW6A8YVr+kz4TjGYe7gHzlw+
niNltGEFHzD8+v1I2YJ6oXevct1YeS0o9HZyN1Q9qgCgzUFtdOKLv6ledplqoPkcMF0aYet2PkEDo3M
lTBckFXPITAMzF8dJSIFo9D8HfdOV0IAdx4O7PtixWKn5y2hMNG0zQPyUecp4pzC6kivAlhyfHilFR61
RGL+GPXQ2MWZWFFYbAGjyiYJnAmCP3NOTd0jMZEnDkbUvxhMmBYSdETk1rRgm+R4LOzFUGaHq
HDLKLX+FIPKcF96hrucXzcWyLbIbEgE98OHlnVYCzRdK8jlqm8tehUc9c9WhQ== vagrant insecure
public key" > ~/.ssh/authorized_keys`

- Assign permissions: `chmod 0700 ~/.ssh && chmod 0600
~/.ssh/authorized_keys`
- In the config file `/etc/ssh/sshd_config`, set **UseDNS no**



3. PACKAGE BOX

- Create `metadata.json` file:

```
{ "provider" : "vmware_desktop" }
```
- Package the box [`git bash`]
 - `tar cvzf ubuntu-focal64-gui.box ./*`



3. PACKAGE BOX

- Test it locally [`cmd prompt` | `powershell` | `git bash`]
 - `vagrant box add ubuntu-focal64-gui.box --provider vmware_desktop --name basdemo/ubuntu2004`
 - `vagrant box list`
 - `vagrant init basdemo/ubuntu2004`



3. PACKAGE BOX

- Share it via Vagrant Cloud
 - Create a free vagrant cloud account
 - `vagrant cloud auth login`
 - `vagrant cloud publish santhosh2r2/ubuntu-focal64-gui 1.2.0`
`vmware_desktop ubuntu-focal64-gui.box --description`
`"vmware release" --version-description "base ubuntu`
`installation" --release`



4. TEST

- **Test the box**

```
vagrant init santhosh2r2/ubuntu-focal64-gui --box-version 1.2.0
```

```
vagrant up
```