

The background of the image is filled with various 3D geometric shapes in a light sage green color. These shapes include spheres, cubes, cylinders, cones, a torus (donut shape), a rectangular frame, and wavy lines. They are scattered across the frame, creating a sense of depth and complexity. The lighting is soft, casting subtle shadows and highlights on the surfaces of the objects.

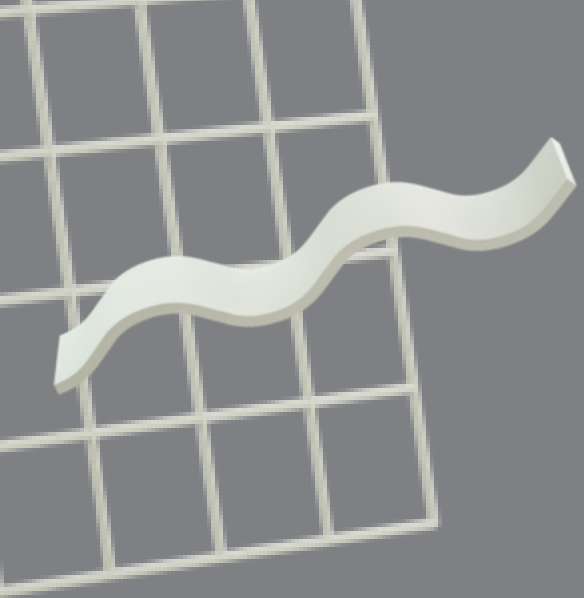
Vagrant

A complex technology simplified

Agenda

- ❑ **What is Vagrant**
- ❑ **Why do we need Vagrant**
- ❑ **Installing Vagrant**
- ❑ **Some important commands**
- ❑ **Vagrant Networking**
- ❑ **Shared folders**

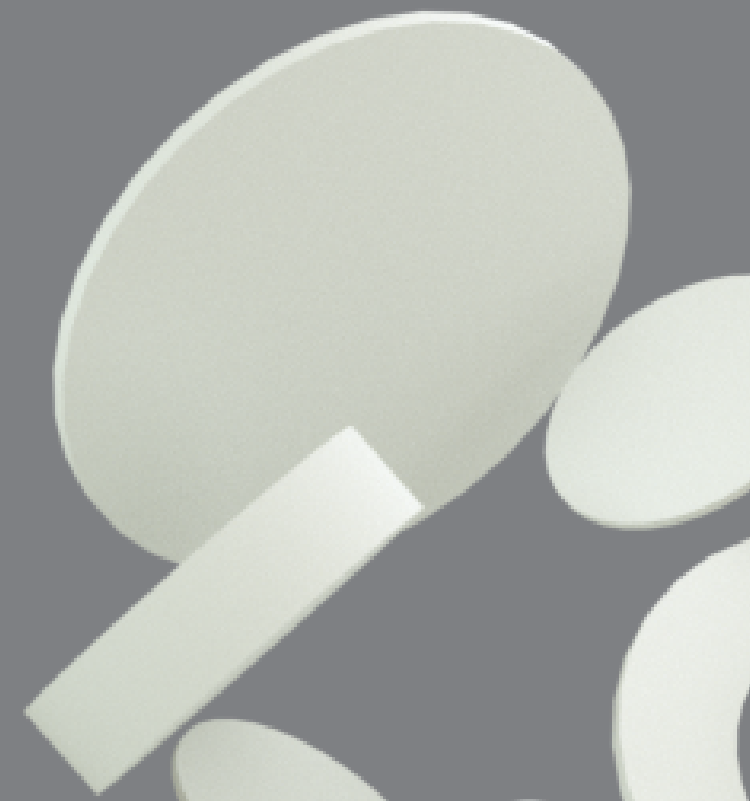




What is Vagrant

Vagrant is a tool for building complete development environments, sandboxed in a virtual machine.

Vagrant lowers development environment setup time, increases development /production parity, and brings the idea of disposable compute resources down to the desktop.



Why Vagrant

- . Creates a virtual machine for you based on an operating system of your choice.**
- Modifies the physical properties of this virtual machine (e.g., RAM, number of CPUs, etc.).**
- Establishes network interfaces so that you can access your virtual machine from your own computer, another device on the same network, or even from another virtual machine.**
- Sets up shared folders so that you can continue editing files on your own machine and have those modifications mirror over to the guest machine.**
- Boots the virtual machine so that it is running.**
- Sets the hostname of the machine, since a lot of software depends on this being properly set.**
- Provisions software on the machine via a shell script or configuration management solution such as Chef, Puppet, or a custom solution.**



Installation

Installing Vagrant

- **Download Oracle VM VirtualBox and VirtualBox Extension Pack**

<https://www.virtualbox.org/wiki/Downloads>

- **Download Vagrant**

<https://www.vagrantup.com/downloads.html>

- **Download GIT/GIT Bash**

<https://git-scm.com/download/win>





Vagrant Terminology

Vagrant base box - a stored VirtualBox machine packaged into a single file. Think of this as the template for your Vagrant box.

Vagrant box - an instance of a VirtualBox VM that has been provisioned and started using

Provision - the configuration step that comes after the Vagrant box loads.

Vagrantfile - a single file that defines what a particular Vagrant box is, including the base box, network settings, and provisioning.

Vagrant Command

- **vagrant -version** - Display version of Vagrant installed
- **vagrant box add** - Add a new base box
- **vagrant box list** - List all the boxes
- **vagrant box remove** - List all the boxes
- **vagrant init** - initialize a new vagrant box in the current directory
- **vagrant up** - start an existing vagrant environment (box) and provision it
- **vagrant ssh** - shell into a running vagrant box
- **vagrant halt** - stop a running vagrant box (shut down the computer)
- **vagrant reload** - restarts a virtual machine
- **vagrant suspend** -- Suspends a virtual machine (remembers state)
- **vagrant resume** -- Resume a suspended machine (vagrant up works just fine for this as well)
- **vagrant destroy** - completely destroy a vagrant box (delete all the things).
- **vagrant global-status** - display the status of the all the vagrant boxes
- **vagrant box outdated** - checks for updates for vagrant boxes
- **vagrant box update** - updates the vagrant boxes

Contact



Abhishek Sharma
Sr EnterPrise Architect

+91 8335866647

abhishek.msharma@yahoo.in