**Aim:** To identify the open source software and write a points on it.

**VAGRANT**

1. **Idea:**

Vagrant was first started as a personal side-project by Mitchell Hashimoto in January 2010. The first version of Vagrant was released in March 2010. In October 2010, [Engine Yard](https://en.wikipedia.org/wiki/Engine_Yard) declared that they were going to sponsor the Vagrant project. The first stable version, Vagrant 1.0, was released in March 2012, exactly two years after the original version was released. In November 2012, Mitchell formed an organization called [HashiCorp](https://en.wikipedia.org/wiki/HashiCorp) to support the full-time development of Vagrant; Vagrant remained permissively licensed [free software](https://en.wikipedia.org/wiki/Free_software). HashiCorp now works on creating commercial additions and provides professional support and training for Vagrant. Vagrant uses "Provisioners" and "Providers" as building blocks to manage the development environments. Provisioners are tools that allow users to customize the configuration of virtual environment

1. **Popularity:**

Vagrant is an [open-source software](https://en.wikipedia.org/wiki/Open-source_software) product for building and maintaining [portable](https://en.wikipedia.org/wiki/Software_portability) [virtual](https://en.wikipedia.org/wiki/Virtualization) software development environments,[[4]](https://en.wikipedia.org/wiki/Vagrant_(software)#cite_note-4)e.g. for [Virtual Box](https://en.wikipedia.org/wiki/VirtualBox), [KVM](https://en.wikipedia.org/wiki/Kernel-based_Virtual_Machine), [Hyper-V](https://en.wikipedia.org/wiki/Hyper-V), [Docker containers](https://en.wikipedia.org/wiki/Docker_(software)), [VMware](https://en.wikipedia.org/wiki/VMware), and [AWS](https://en.wikipedia.org/wiki/AWS_EC2). It tries to simplify [software configuration management](https://en.wikipedia.org/wiki/Software_configuration_management) of [virtualizations](https://en.wikipedia.org/wiki/Hardware_virtualization) in order to increase development productivity. Vagrant is written in the [Ruby language](https://en.wikipedia.org/wiki/Ruby_(programming_language)), but its ecosystem supports development in a few languages.Vagrant is an [open-source software](https://en.wikipedia.org/wiki/Open-source_software) product for building and maintaining [portable](https://en.wikipedia.org/wiki/Software_portability) [virtual](https://en.wikipedia.org/wiki/Virtualization) software development environments,[[4]](https://en.wikipedia.org/wiki/Vagrant_(software)#cite_note-4)e.g. for [Virtual Box](https://en.wikipedia.org/wiki/VirtualBox), [KVM](https://en.wikipedia.org/wiki/Kernel-based_Virtual_Machine), [Hyper-V](https://en.wikipedia.org/wiki/Hyper-V), [Docker containers](https://en.wikipedia.org/wiki/Docker_(software)), [VMware](https://en.wikipedia.org/wiki/VMware), and [AWS](https://en.wikipedia.org/wiki/AWS_EC2). It tries to simplify [software configuration management](https://en.wikipedia.org/wiki/Software_configuration_management) of [virtualizations](https://en.wikipedia.org/wiki/Hardware_virtualization) in order to increase development productivity. Vagrant is written in the [Ruby language](https://en.wikipedia.org/wiki/Ruby_(programming_language)), but its ecosystem supports development in a few languages.Vagrant is an [open-source software](https://en.wikipedia.org/wiki/Open-source_software) product for building and maintaining [portable](https://en.wikipedia.org/wiki/Software_portability) [virtual](https://en.wikipedia.org/wiki/Virtualization) software development environments,[[4]](https://en.wikipedia.org/wiki/Vagrant_(software)#cite_note-4)e.g. for [Virtual Box](https://en.wikipedia.org/wiki/VirtualBox), [KVM](https://en.wikipedia.org/wiki/Kernel-based_Virtual_Machine), [Hyper-V](https://en.wikipedia.org/wiki/Hyper-V), [Docker containers](https://en.wikipedia.org/wiki/Docker_(software)), [VMware](https://en.wikipedia.org/wiki/VMware), and [AWS](https://en.wikipedia.org/wiki/AWS_EC2). It tries to simplify [software configuration management](https://en.wikipedia.org/wiki/Software_configuration_management) of [virtualizations](https://en.wikipedia.org/wiki/Hardware_virtualization) in order to increase development productivity. Vagrant is written in the [Ruby language](https://en.wikipedia.org/wiki/Ruby_(programming_language)), but its ecosystem supports development in a few languages.Vagrant is an [open-source software](https://en.wikipedia.org/wiki/Open-source_software) product for building and maintaining [portable](https://en.wikipedia.org/wiki/Software_portability) [virtual](https://en.wikipedia.org/wiki/Virtualization) software development environments,[[4]](https://en.wikipedia.org/wiki/Vagrant_(software)#cite_note-4)e.g. for [Virtual Box](https://en.wikipedia.org/wiki/VirtualBox), [KVM](https://en.wikipedia.org/wiki/Kernel-based_Virtual_Machine), [Hyper-V](https://en.wikipedia.org/wiki/Hyper-V), [Docker containers](https://en.wikipedia.org/wiki/Docker_(software)), [VMware](https://en.wikipedia.org/wiki/VMware), and [AWS](https://en.wikipedia.org/wiki/AWS_EC2). It tries to simplify [software configuration management](https://en.wikipedia.org/wiki/Software_configuration_management) of [virtualizations](https://en.wikipedia.org/wiki/Hardware_virtualization) in order to increase development productivity. Vagrant is written in the [Ruby language](https://en.wikipedia.org/wiki/Ruby_(programming_language)), but its ecosystem supports development in a few languages.

1. **License Under:**

Vagrant is licensed under the MIT License. The MIT License is a [permissive free software license](https://en.wikipedia.org/wiki/Permissive_free_software_license) originating at the [Massachusetts Institute of Technology](https://en.wikipedia.org/wiki/Massachusetts_Institute_of_Technology) (MIT) in the late 1980s. As a permissive license, it puts only very limited restriction on reuse and has, therefore, an excellent [license compatibility](https://en.wikipedia.org/wiki/License_compatibility). The MIT license permits reuse within [proprietary software](https://en.wikipedia.org/wiki/Proprietary_software) provided that all copies of the licensed software include a copy of the MIT License terms and the copyright notice. The MIT license is also [compatible](https://en.wikipedia.org/wiki/License_compatibility) with many [copyleft](https://en.wikipedia.org/wiki/Copyleft) licenses, such as the [GNU General Public License](https://en.wikipedia.org/wiki/GNU_General_Public_License) (GPL). MIT licensed software can be integrated into [GPL](https://en.wikipedia.org/wiki/GPL) software, but not the other way around.

1. **Impact:**

Vagrant sits on top of virtualization software as a [wrapper](https://en.wikipedia.org/wiki/Wrapper_library) and helps the developer interact easily with the providers. It automates the configuration of virtual environments using [Chef](https://en.wikipedia.org/wiki/Chef_(software))or [Puppet](https://en.wikipedia.org/wiki/Puppet_(software)), and the user does not have to directly use any other virtualization software. Machine and software requirements are written in a file called "Vagrantfile" to execute necessary steps in order to create a development-ready box. "Box" is a [format](https://en.wikipedia.org/wiki/File_format) and an [extension](https://en.wikipedia.org/wiki/Software_extension) for Vagrant environments that is copied to another machine in order to replicate the same environment.  [Puppet](https://en.wikipedia.org/wiki/Puppet_(software)) and [Chef](https://en.wikipedia.org/wiki/Chef_(software)) are the two most widely used provisioners in the Vagrant [ecosystem](https://en.wikipedia.org/wiki/Software_ecosystem). Providers are the [services](https://en.wikipedia.org/wiki/Software_service) that Vagrant uses to set up and create virtual environments. Support for [VirtualBox](https://en.wikipedia.org/wiki/VirtualBox), [Hyper-V](https://en.wikipedia.org/wiki/Hyper-V), and [Docker](https://en.wikipedia.org/wiki/Docker_(software)) virtualization ships with Vagrant, while [VMware](https://en.wikipedia.org/wiki/VMware) and [AWS](https://en.wikipedia.org/wiki/AWS_EC2) are supported via plugins.