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| **Recommended PC configuration** | |
| **Windows**: Windows 10 or Higher  Minimum 8 GB RAM  Available 40 GB Hard Disk Space | **Mac**: Latest Mac OS  Minimum 8 GB RAM  Available 40 GB Hard Disk Space |

1. Download and install Mac/Windows versions of the following software:

[VirtualBox](https://www.virtualbox.org/wiki/Downloads) (the software that creates virtual machines)

[Vagrant](https://www.vagrantup.com/) (our hero, the software that deploys virtual machines and runs provisioning scripts)

1. Setup Centos and Ubuntu Guest machines (Virtual machines) using Vagrant

* Create a folder DevOps/vagrant/ubuntu & DevOps/vagrant/centos under preferred drive in your Mac/Windows PC
* Create a ‘Vagranfile’ file under ubuntu & centos folder, past the sample vagrant file content from github links

<https://github.com/shobancs/vagrant/blob/jenkins-private-network/jenkins/ubantu-single-node/Vagrantfile>

<https://github.com/shobancs/vagrant/blob/jenkins-private-network/jenkins/centos-single-node/Vagrantfile>

* Open two command prompts, cd to “DevOps\Vagrant\Ubantu” and “DevOps\Vagrant\CentOS”
* (for MAC only) Go to VM folder where you created Vagrantfile and run “**vagrant init hashicorp/bionic64**”

C:\DevOps\Vagrant\Ubantu>vagrant init hashicorp/bionic64

A `Vagrantfile` has been placed in this directory. You are now

ready to `vagrant up` your first virtual environment! Please read

the comments in the Vagrantfile as well as documentation on

`vagrantup.com` for more information on using Vagrant.

* (For MAC and Windows) Now from the same location, run “**vagrant up --provision**” for Ubuntu and CentOS
* Let it complete the ubuntu and centos machines up and running

