<https://singularity.lbl.gov/install-windows>

**Setup**

First, install the following software:

* install [Git for Windows](https://git-for-windows.github.io/)
* install [VirtualBox for Windows](https://www.virtualbox.org/wiki/Downloads)
* install [Vagrant for Windows](https://www.vagrantup.com/downloads.html)
* install [Vagrant Manager for Windows](http://vagrantmanager.com/downloads/)

Install Singularity:.

1. Run GitBash.
2. Then issue the following commands to bring up the Virtual Machine:

vagrant init singularityware/singularity-2.4

vagrant up

vagrant ssh

To check your version: singularity --version

Build a Container:

1. You can use the build command to download a container from Singularity Hub.

Command: singularity build lolcow.simg shub://GodloveD/lolcow

1. **Downloading a existing container from Docker Hub.**

Command: singularity build lolcow.simg docker://godlovedc/lolcow

1. **Creating --writable images:**

Command: sudo singularity build --writable lolcow.img shub://GodloveD/lolcow

1. **Converting containers from one format to another.**

if you had a squashfs container called production.simg and wanted to convert it to a writable ext3 container called development.img you could:

sudo singularity build --writable development.img production.simg

**Singularity Recipe:**

A Singularity Recipe is the driver of a custom build, and the starting point for designing any custom container. It includes specifics about installation software, environment variables, files to add, and container metadata.