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# GDL Deployment Guide

Prepare for Operating System

7/15/2025

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## Detailed Instructions to set up CentOS/7 in Windows 10 Environment

### Recommended OS

- Linux CentOS 7 is recommended and tested version.
- Windows 10 is not recommended due to Hyper-V issues existing in Windows 10 environment.
- Mac OS is possible, but not tested with these procedures.

### Install Virtual Box

Download the VirtualBox setup file for Windows hosts and execute the setup file with admin privileges.

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

### Install Vagrant

Download Vagrant 2.1.2 version (recommended tested version) to build and manage virtual machine environment. The general downloads for all versions can be obtained [here](#), and the archived versions are available [here](#).

Run the `vagrant 2.1.2 x86_64.msi` setup file, and install in C:\ drive.

### Configure Vagrant

1. Create a folder of any name (say GDL) in C:\HashiCorp\Vagrant\
2. Launch Command Prompt as Administrator (Run as Administrator)
3. Change the directory of Command Prompt as C:\HashiCorp\Vagrant\GDL
4. Type the command **vagrant init centos/7** and click **Enter**.

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```
C:\>cd Hashicorp
C:\HashiCorp>cd Vagrant
C:\HashiCorp\Vagrant>cd GDL
C:\HashiCorp\Vagrant\GDL>vagrant init centos/7
```

Vagrant creates a configuration file named Vagrantfile in GDL folder.

## CentOS 7 Specifications

1. Open the VagrantFile (under C:/Hashicorp/Vagrant/GDL) using a text editor(run text editor as Administrator) and change the following properties of the file.

1. config.vm.box="centos/7" (in line 15)

```
13 # Every Vagrant development environment
14 # boxes at https://vagrantcloud.com/sea
15 config.vm.box = "centos/7"
16
```

2. config.vm.network "private network", ip: "192.168.33.10" (in line 35)

```
33 # Create a private network, which allows host-only access to the
34 # using a specific IP.
35 config.vm.network "private_network", ip: "192.168.33.10"
36
```

3. config.vm.provider "virtualbox" do|vb|(in line 52)

```
50 # Example for VirtualBox:
51 #
52 config.vm.provider "virtualbox" do |vb|
53 # # Display the VirtualBox GUI when booting the machine
```

4. vb.memory= "4096" (in line 57)

5. end (in line 58)

```
56 # # Customize the amount of memory on the VM:
57 vb.memory = "4096"
58 end
```

6. config.vm.synced\_folder "C:/dockerlinux/", "/Shared", nfs: true(in line 70)

```
69 # SHELL
70 config.vm.synced_folder "C:/dockerlinux", "/Shared", nfs: true
71 end
```

Ensure the path specified in #6 (line 70) contains the unzipped content of IP file **IP\_GDL\_900\_ENU\_DockerLinux.zip**. It contains four files as given below.

1. docker-compose-cluster-full.yml

- 
2. docker-compose-single.yml
  3. docker-compose-cluster-half.yml
  4. IP\_GDL\_900\_ENU\_DockerLinux.tar

In Docker environment, these files are accessed from the host machine(Windows 10) through guest machine (CentOS/7).

## Logging on to CentOS using Vagrant

1. Type the command **vagrant up** to boot up the newly created CentOS/7 Virtual Machine VM.
  1. If you encounter error while booting up CentOS/7 due to hyper-V, follow the steps given here to remove the hyper-V issue.
  2. If you encounter error regarding shared folders (mounting issues), type the command **vagrant plugin install vagrant-vbguest** to use the folders of host machine (Windows 10) in guest machine (CentOS/7).
2. Type the command **vagrant reload** to reflect the changes made in vagrant box.
3. Type the command **vagrant ssh** to login the CentOS/7 VM as Vagrant user.

The VM setup with CentOS/7 is ready for the installation of Docker software.