**Installation and Setup Instructions**

The installation of this developer version of Java GlusterFS requires a Linux 64 bit host, for the purpose of this manual, we will use an Ubuntu 64 version.This host will run a guest Linux VM using VirtualBox and Vagrant. The VM is for loading the Gluster file system.

For the demo environmnent, again we need a Linux 64, and the guest VM will have to be a 32 bit version, so that the demo environment is stable.

When downloading packages, put them into the same folder, something like ~/JGFS

Requirements:

1. GlusterFS

2. Java JKD 7 or higher

3. Maven

4. Virtualbox

5. Vagrant

6. A Ubuntu image for the demo VM

7. Git

All installation instructions are form the linux console using bash.

**Install Glusterfs**

|  |
| --- |
| sudo add-apt-repository ppa:gluster/glusterfs-3.6  apt-get update  sudo apt-get install glusterfs-common |

**Install Java JDK 7**

|  |
| --- |
| #download Java jdk 7 and 8 from oracle into ~/JGFS  cd ~/JGFS  wget http://download.oracle.com/otn-pub/java/jdk/7u75-b13/jdk-7u75-linux-x64.tar.gz  #extract it  tar -xvf jdk-7u75-linux-x64.tar.gz |

**Download and set Maven**

|  |
| --- |
| #download Maven into ~/JGFS  cd ~/JGFS  wget ftp://mirror.reverse.net/pub/apache/maven/maven-3/3.2.5/binaries/apache-maven-3.2.5-bin.tar.gz  tar -xvf apache-maven-3.2.5-bin.tar.gz  #edit ~.bashrc to include the following (create the file if it does not exists)  export M2\_HOME=~/JGFS/apache-maven-3.2.5  alias mvn="$M2\_HOME/bin/mvn" |

We will need to come back to Maven to install it, as it requires other packages to be set up first.

// after sitting within the code folder

//run install

rm -rf ~/.m2

mvn clean install

mvn -Pdownload -Pfull install

//or

mvn -Pdownload -Plinux64 install

mvn --version

**Install Virtualbox**

|  |
| --- |
| sudo apt-get install virtualbox |

**Install Vagrant**

|  |
| --- |
| cd ~/JGFS  wget http://files.vagrantup.com/packages/0219bb87725aac28a97c0e924c310cc97831fd9d/vagrant\_1.2.4\_i686.deb  dpkg -i vagrant\_1.2.4\_i686.deb |

**Install Git**

|  |
| --- |
| sudo apt-get install git |