**Day1-(Configuring Own GIT Lab Server)**

**Topics:**

* **Basic skills of Linux concepts & Shell script/ Java/Python**
* **Introduction to DevOps**
* **Environment Setup of Git lab**

System requirement: RAM: 8/16GB or Create AWS Instance

Pre-requisites: Virtual Box, Vagrant, Git bash/Putty

**Environment Setup Git lab**

Please follow below instructions to setup the virtual machines:

1. Download and install vagrant: https://www.vagrantup.com/downloads.html

2. Download and install virtual box: <https://www.virtualbox.org/wiki/Downloads>

*Note: Make sure version should be 5.1.28 above version won’t support*

3. Download this git hub repo and extract the zip file.

 https://github.com/srinuee21/multi-vagrant-vms.git

Git clone   https://github.com/srinuee21/multi-vagrant-vms.git

4. Download putty and winscp:

        Putty: http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html

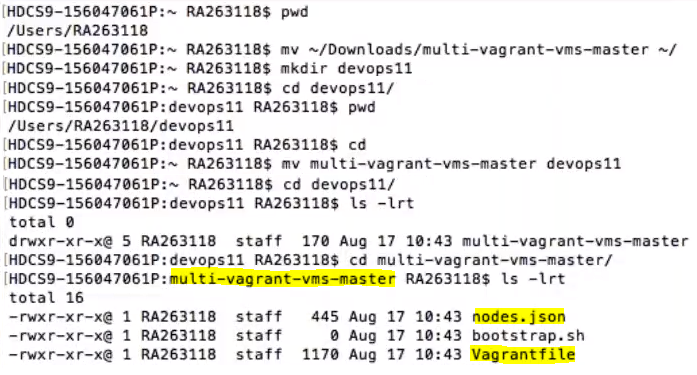
        Winscp:https://winscp.net/eng/docs/guide\_install

        GIT: GITBashshell

5. Restart the machine and press F2 or F10 to go into Bios mode. VT-x/AMD-v virtualization must be enabled in BIOS

6.  Open command prompt in windows machine/ git bash and go into the unzipped multi-vagrant directory (video: 90min)

    #cd  multi-vagrant-vms-master



#vagrant up gitlab.example.com (or ) vagrant up

7. username /password :  vagrant/vagrant

**Vagrant file is a configuration file for vagrant where we can edit type of OS, Linux flavour, Ip address, and host name, if we run the vagrant command we can bring n number of virtual machines automatically. In Nodes.json file we can create n number of nodes**

**Edit the host file by adding the host file in /etc/hosts in**

# localhost name resolution is handled within DNS itself.

# 127.0.0.1 localhost

# ::1 localhost

# **192.168.32.5 gitlab.example.com**

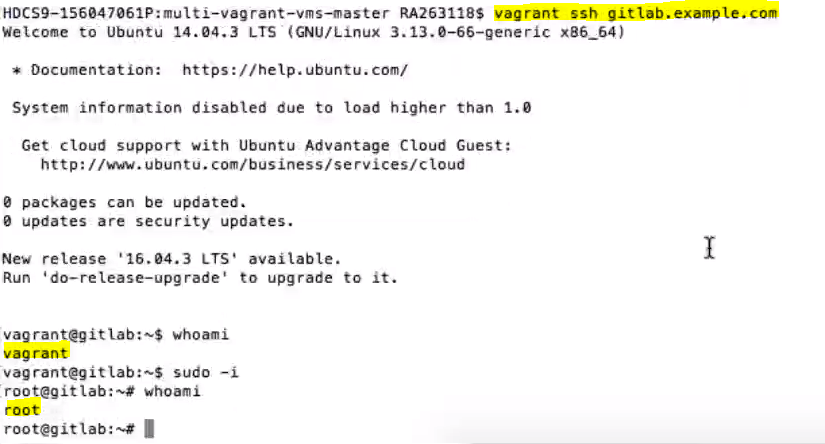
**In order to connect to the nodes we can connect through ssh /vagrant ssh**

Ex: vagrant ssh gitlab.exampl.com

vagrant ssh node01.example.com

vagrant ssh node02.example.com

Switch to the root user after connecting by command sudo –i



**Now Install Git Lab in node gitlab.exampl.com**

**Git lab server installation steps**:

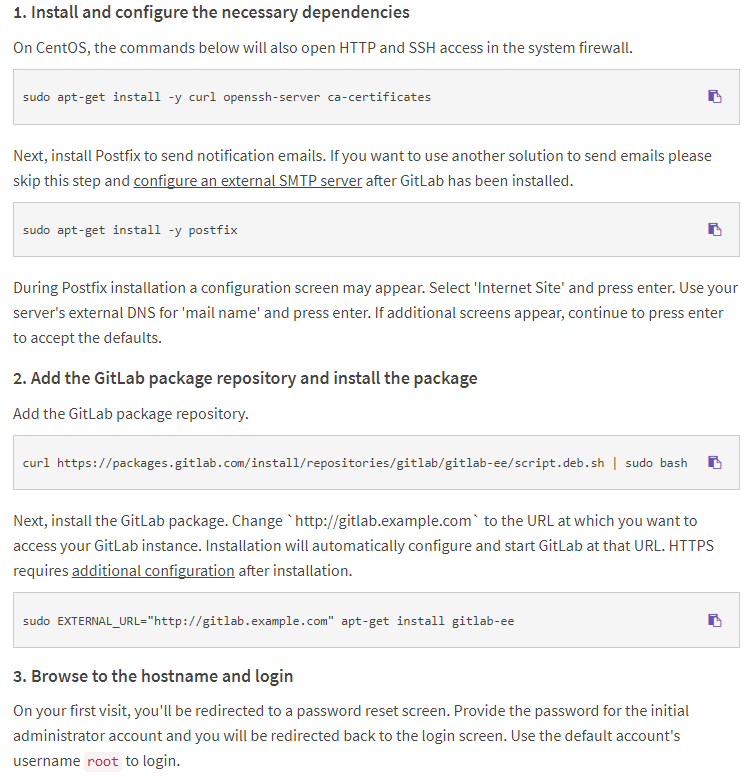
Go to site for reference: <https://about.gitlab.com/installation/#ubuntu>

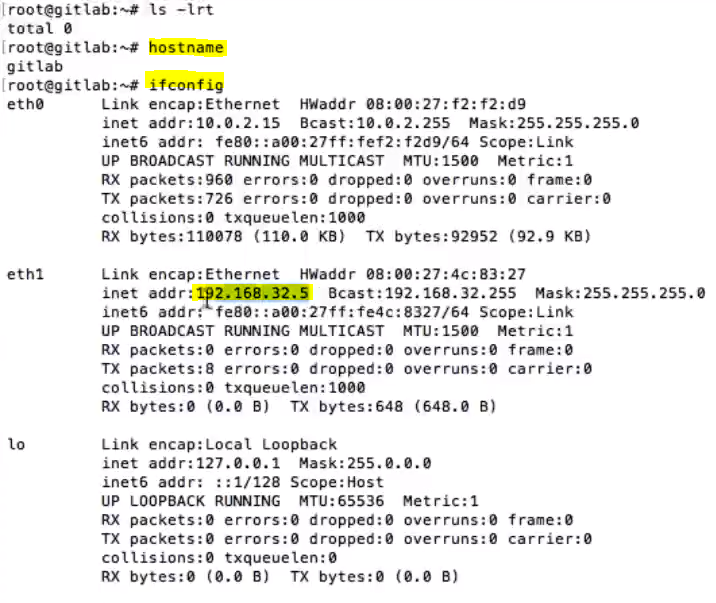
sudo apt-get install -y curl openssh-server ca-certificates

sudo apt-get install -y pogpstfix

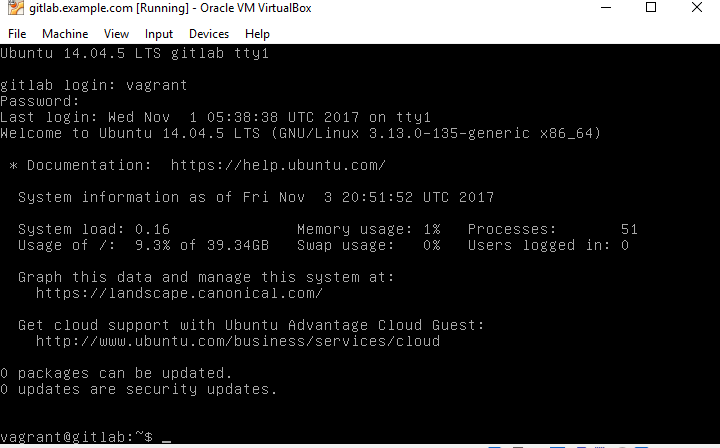
curl https://packages.gitlab.com/install/repositories/gitlab/gitlab-ee/script.deb.sh | sudo bash

sudo EXTERNAL\_URL="http://gitlab.example.com" apt-get install gitlab-ee

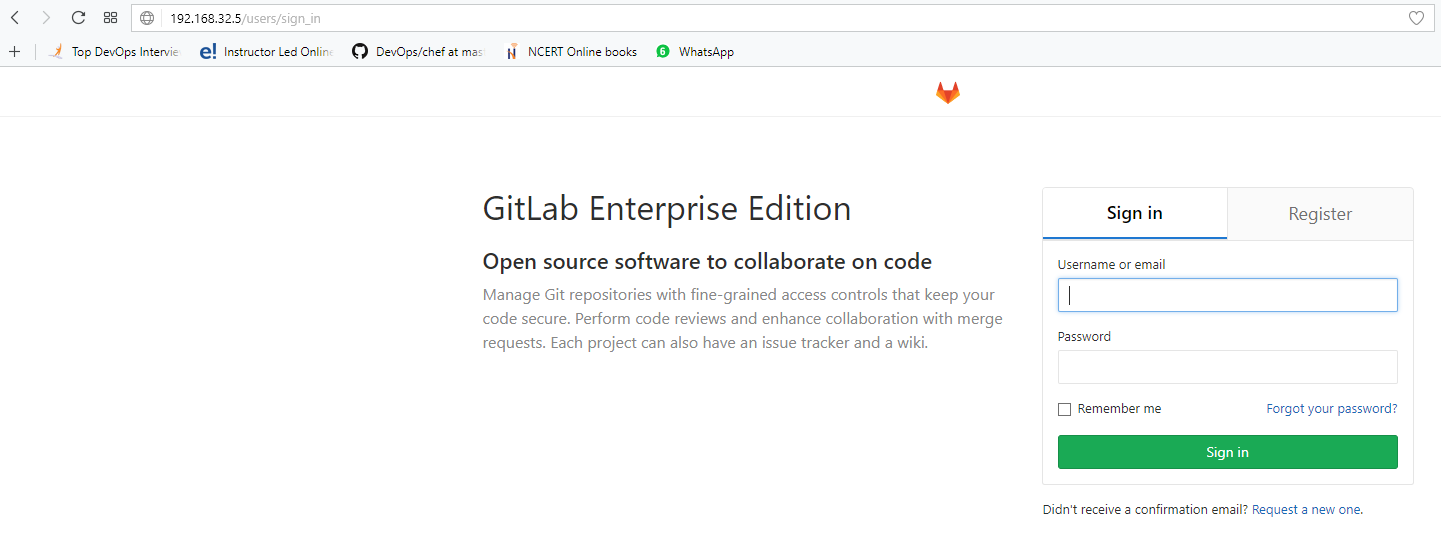




Start the git lab node in Virtual box



Connect using link in your browser: <http://192.168.32.5> then your own Git Lab login page will appear



Login into the page using credentials username : root & password: \*\*\*\*\*\*\*\*\*

