class

Send your Gmail email id for slack/google drive access in the questions pane

Check your email for invites

Class to start at 8.30pm sharp

Initial Class layout

Slack Sign up for everyone

Google drive access through slack

Whatsapp sign up

Trainer introduction

Amir Ahmad

Kashmir

Currently based out in hyderabad

Work for a startup in hyderabad

5 + years of experience

Participant Introduction

Name:-

Current Organisation

Current Location:-

Current Role:-

Total number of years of experience:-

Expectation from the course:-

Confirmed everyone is on slack/google drive and whatsapp

About feedback:-

After every session you will get a feedback pop up which asks for content rating, instructing

Bad

Average

Good

Excellent

Comments Box

After four hour i get the mail for feedback

Google drive is something which i own

Its not from edureka.

Can we have a poll here on what kind of approach you want me to follow in the classes

Handson Approach

Slide based approach

Reply with your opinion everyone

Majority wins

Handson wins

For 50 mins of class

And then ten minutes of break

8 minutes of questions

You can keep on posting questions as and when they come to your mind

But i will pick them up in the break

Set up a new.vcs backed by gitlab community edition

4GB ram , 4vCPU and 50 GB Hard disk

vim /etc/hostname

Enter gitlab-server

reboot

apt-get update -y

apt-get dist-upgrade -y

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

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

apt-get update -y

apt-get install gitlab-ce -y

vim /etc/gitlab/gitlab.rb

Put the ip address of the machien in the external\_address paramter

gitlab-ctl reconfigure

root@gitlab-server:~# ifconfig

enp0s3 Link encap:Ethernet HWaddr 08:00:27:f7:12:9a

inet addr:192.168.1.32 Bcast:192.168.1.255 Mask:255.255.255.0

inet6 addr: fe80::a00:27ff:fef7:129a/64 Scope:Link

UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1

RX packets:530 errors:0 dropped:0 overruns:0 frame:0

TX packets:9 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:1000

RX bytes:74592 (74.5 KB) TX bytes:990 (990.0 B)

enp0s8 Link encap:Ethernet HWaddr 08:00:27:b0:f0:ac

inet addr:192.168.1.31 Bcast:192.168.1.255 Mask:255.255.255.0

inet6 addr: fe80::a00:27ff:feb0:f0ac/64 Scope:Link

UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1

RX packets:217165 errors:0 dropped:0 overruns:0 frame:0

TX packets:39288 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:1000

RX bytes:321243500 (321.2 MB) TX bytes:3468401 (3.4 MB)

lo Link encap:Local Loopback

inet addr:127.0.0.1 Mask:255.0.0.0

inet6 addr: ::1/128 Scope:Host

UP LOOPBACK RUNNING MTU:65536 Metric:1

RX packets:698 errors:0 dropped:0 overruns:0 frame:0

TX packets:698 errors:0 dropped:0 overruns:0 carrier:0

collisions:0 txqueuelen:1

RX bytes:397922 (397.9 KB) TX bytes:397922 (397.9 KB)

Go to the ip on the machine

Pase 192.168.1.32

In the browser

redhat123

redhat123

Login as root

And password redhat123

Create a project which is going to be my code repository

That project is going to be used as a dummy for devops delivery pipeline

Sample application called addressbook.war which we will be deploying to tomcat

Two ways to add code

Http--required a username and password for private

Disadvantage is that you cant use http in automated setups

Ssh-- not required to enter a username and password

More desirable for automated setups.

Set up a git client

Rename the host

Rebooted the machine

ssh-keygen -t rsa

Which will create an ssh key

root@git-client:~# ssh-keygen -t rsa

Generating public/private rsa key pair.

Enter file in which to save the key (/root/.ssh/id\_rsa):

Enter passphrase (empty for no passphrase):

Enter same passphrase again:

Your identification has been saved in /root/.ssh/id\_rsa.

Your public key has been saved in /root/.ssh/id\_rsa.pub.

The key fingerprint is:

SHA256:VGyx7tqNhs0jlE5AxLFdgFgx8VUOMCqEnL2kNGXhJms root@git-client

The key's randomart image is:

+---[RSA 2048]----+

| . ==\*B=++\*o. |

| \*++ +\* =o+ |

| ..++oo +.. . |

| .+.... . |

| E .S.. |

| . +. |

| + +. |

| +o=o |

| .oo.. |

+----[SHA256]-----+

root@git-client:~#

root@git-client:~# cat .ssh/id\_rsa.pub

ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABAQDrQzMWdrmnQVfC2swskar8K2M+ks318dCTTWSN0ejUohlPAkPMiUKo7dN0zTU45jJfozggArJb+M+4to6c/EVIoTeutHsACBhyp49Arl3f0qFUFbPhZpA9SGhbVJH+6WsSVwPPelfDB7kVCVrzVkho19yBRwZ3GHoZZkiW96qawzGJsxikt9xQ4HGoswU5L55EygD/ooTPiHkmejd1lMkozYBvTu96PLfTJAVkHsJ3xN/VJ5BpV233Jfacr7oruhi3cgf/pOLfOuVDUCnRrHuyAiwRCiHxaDv+M84GeLxh3u5Omfq4LSqkDNkMkgTuf4dit7dxgUMeABHysBBATpfV root@git-client

root@git-client:~#

root@git-client:~# git clone git@192.168.1.32:root/addressbook.git

Cloning into 'addressbook'...

Warning: Permanently added '192.168.1.32' (ECDSA) to the list of known hosts.

warning: You appear to have cloned an empty repository.

Checking connectivity... done.

root@git-client:~# ≈

Summarize:-

Signed up everyone on slack

Signed up everyone on whatsapp group

Signed up everyone on Google drive share

Introduced myself

Unmuted the participants and introduced everyone to everyone

Did a poll on whether we should follow slides or handson approach

Everyone said handson approach

Went through five slides of first module

Explained devops

Straightaway went to devops handson

Virtual Box installation on my windows machine

Downloading of the fresh\_vm\_v5 from google drive shareable folder -> 008-OVA files

Imported two machines

One is gitlab server

Second is git client

Renamed both machines’s hostnames

updated and upgraded the packages of both machines

Installed gitlab on the git lab server machine

Went through the architecture diagram

Generated an ssh key on the git client

Created a project on the gitlab server

Fixed the ip address issue in gitlab server (Ignore)

Addred the ssh key to the gitlab server

Clone the addressbook application on the git client

Make sure you stop the vm using the halt command (gitlab vm)

Other wise ur vm postgres database might get corrupted :-)

**Assignment:-**

Set up gitlab server and git client (ubuntu 16.04 class vm from gogle drive)

Add ssh key of the client on the server

I will be asking anyone to show the demo to the class.