

Linux

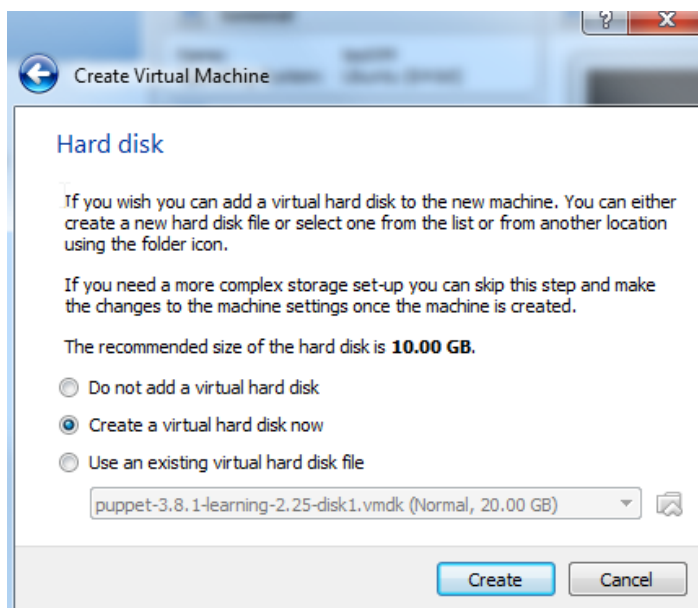
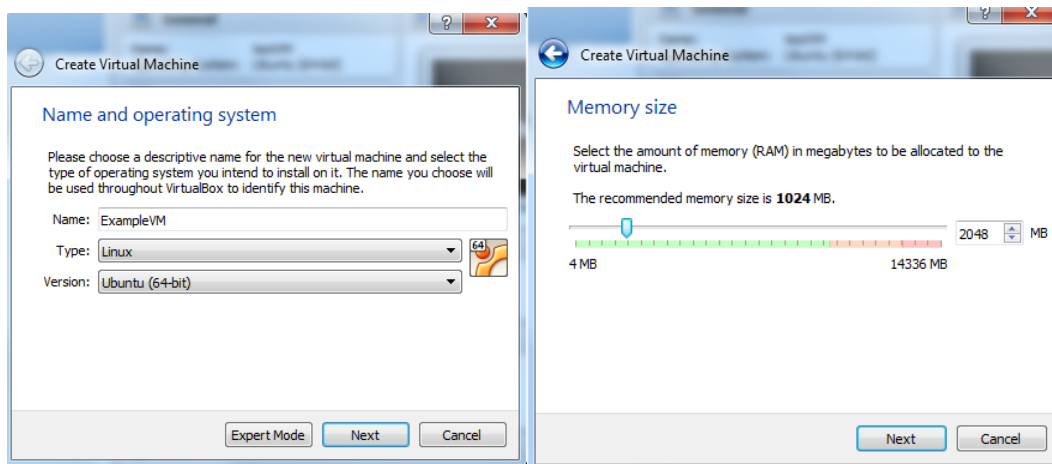
Task1: Your first Virtual Machine

Download virtualbox at <https://www.virtualbox.org/wiki/Downloads>.

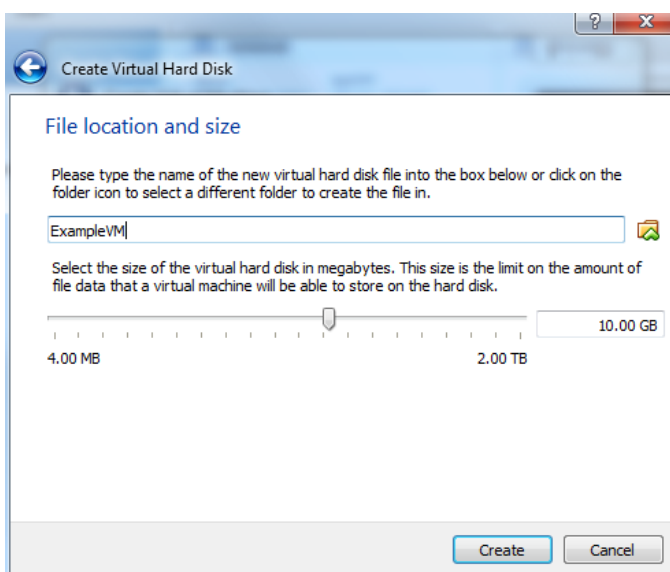
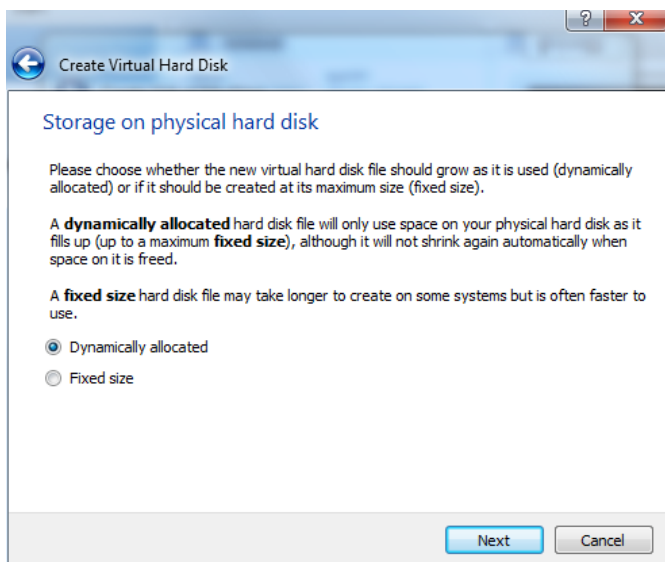
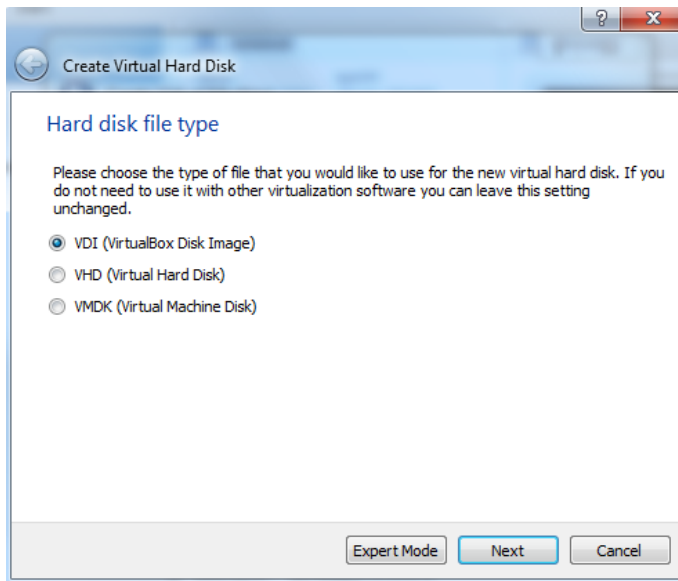


Create a new VM, Choose the OS that you have on version. If not present, choose others 64/32 bits.

Max recommended is half of available RAM.



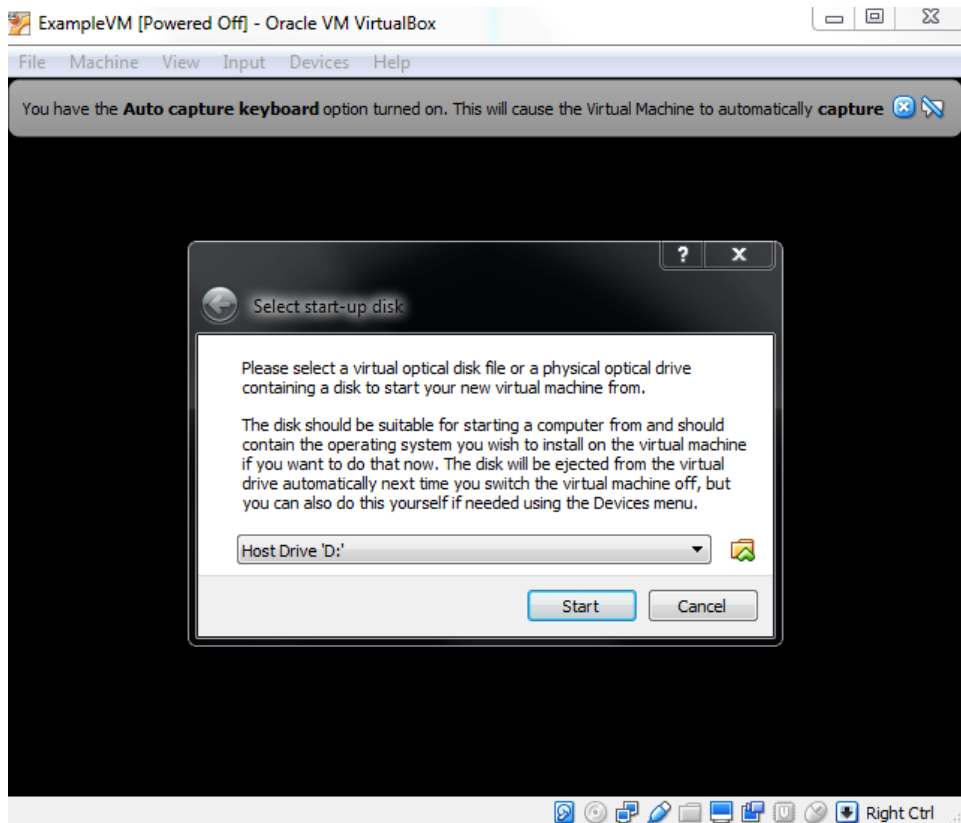
Create a virtual hard disk



Start the VM



Select the ISO file of your ubuntu machine and install it.



Task 2: Terminal Exploration

```
root@ip-172-31-10-21: /home/QACPawan
ubuntu@ip-172-31-10-21:~$ ls
ubuntu@ip-172-31-10-21:~$ whoami
ubuntu
ubuntu@ip-172-31-10-21:~$ pwd
/home/ubuntu
ubuntu@ip-172-31-10-21:~$ cd ..
ubuntu@ip-172-31-10-21:/home$ ls
ubuntu
ubuntu@ip-172-31-10-21:/home$ mkdir QACPawan
mkdir: cannot create directory 'QACPawan': Permission denied
ubuntu@ip-172-31-10-21:/home$ sudo mkdir QACPawan
ubuntu@ip-172-31-10-21:/home$ ls
QACPawan  ubuntu
ubuntu@ip-172-31-10-21:/home$ cd QACPawan/
ubuntu@ip-172-31-10-21:/home/QACPawan$ ls
ubuntu@ip-172-31-10-21:/home/QACPawan$ touch rand.txt
touch: cannot touch 'rand.txt': Permission denied
ubuntu@ip-172-31-10-21:/home/QACPawan$ sudo touch rand.txt
ubuntu@ip-172-31-10-21:/home/QACPawan$ echo "hello devops" >> rand.txt
-bash: rand.txt: Permission denied
ubuntu@ip-172-31-10-21:/home/QACPawan$ sudo echo "hello devops" >> rand.txt
-bash: rand.txt: Permission denied
ubuntu@ip-172-31-10-21:/home/QACPawan$ ls
rand.txt
ubuntu@ip-172-31-10-21:/home/QACPawan$ cat rand.txt
ubuntu@ip-172-31-10-21:/home/QACPawan$ echo "what" >>rand.txt
-bash: rand.txt: Permission denied
ubuntu@ip-172-31-10-21:/home/QACPawan$ user root
No command 'user' found, did you mean:
  Command 'kuser' from package 'kuser' (universe)
  Command 'fuser' from package 'psmisc' (main)
  Command 'users' from package 'coreutils' (main)
  Command 'userv' from package 'userv' (universe)
user: command not found
ubuntu@ip-172-31-10-21:/home/QACPawan$ echo "hello"
hello
ubuntu@ip-172-31-10-21:/home/QACPawan$ echo "hello" >> rand.txt
-bash: rand.txt: Permission denied
ubuntu@ip-172-31-10-21:/home/QACPawan$ sudo bash
root@ip-172-31-10-21:/home/QACPawan# echo "hello">>rand.txt
root@ip-172-31-10-21:/home/QACPawan# cat rand.txt
hello
root@ip-172-31-10-21:/home/QACPawan# ls
```

Task 3: Creating a script file

```
root@ip-172-31-10-21: /home/QACPawan/MyProject
GNU nano 2.5.3      File: adduser.sh
#!/bin/bash
read -p "Username: " username
useradd -g sudo -m $username
passwd $username
echo "Username "+$username+ "created in sudo group."
```

```
GNU nano 2.5.3      File: task1challenge.sh

#!/bin/bash
date
w
uptime
```

Task 4: Configuring the Linux environment

apt-get update

apt-get install maven

(Maven installed itself and java as well)

```
Processing triggers for libc-bin (2.23-0ubuntu7) ...
Processing triggers for systemd (229-4ubuntu16) ...
Processing triggers for ureadahead (0.100.0-19) ...
Processing triggers for ca-certificates (20160104ubuntu1) ...
Updating certificates in /etc/ssl/certs...
0 added, 0 removed; done.
Running hooks in /etc/ca-certificates/update.d...

done.
done.
root@ip-172-31-10-21:/home/QACPawan/MyProject# java -version
openjdk version "1.8.0_131"
OpenJDK Runtime Environment (build 1.8.0_131-8u131-b11-0ubuntu1.16.04.2-b11)
OpenJDK 64-Bit Server VM (build 25.131-b11, mixed mode)
root@ip-172-31-10-21:/home/QACPawan/MyProject# mvn -v
Warning: JAVA_HOME environment variable is not set.
Apache Maven 3.3.9
Maven home: /usr/share/maven
Java version: 1.8.0_131, vendor: Oracle Corporation
Java home: /usr/lib/jvm/java-8-openjdk-amd64/jre
Default locale: en_US, platform encoding: UTF-8
OS name: "linux", version: "4.4.0-1013-aws", arch: "amd64", family: "unix"
root@ip-172-31-10-21:/home/QACPawan/MyProject#
```

Task 5: Using Iptables

Start iptables:

sudo ufw enable

Stop iptables:

sudo ufw disable

Show status:

sudo ufw status

```

root@ip-172-31-10-21:/home/QACPawan/MyProject# ufw status
Status: active
root@ip-172-31-10-21:/home/QACPawan/MyProject# ufw disable
Firewall stopped and disabled on system startup
root@ip-172-31-10-21:/home/QACPawan/MyProject# ufw status
Status: inactive
root@ip-172-31-10-21:/home/QACPawan/MyProject# ufw enable
Command may disrupt existing ssh connections. Proceed with operation (y|n)? y
Firewall is active and enabled on system startup
root@ip-172-31-10-21:/home/QACPawan/MyProject#

```

Allowing ftp at port 21 rule:

```

root@ip-172-31-10-21:/home/QACPawan/MyProject# iptables -A INPUT -p tcp --dport ftp -j ACCEPT
root@ip-172-31-10-21:/home/QACPawan/MyProject# iptables -L -v -n
Chain INPUT (policy DROP 0 packets, 0 bytes)
 pkts bytes target     prot opt in     out     source               destination
 421 34971 ufw-before-logging-input all -- * * 0.0.0.0/0            0.0.0.0/0
 421 34971 ufw-before-input all -- * * 0.0.0.0/0            0.0.0.0/0
 40 2944 ufw-after-input all -- * * 0.0.0.0/0            0.0.0.0/0
 40 2944 ufw-after-logging-input all -- * * 0.0.0.0/0            0.0.0.0/0
 40 2944 ufw-reject-input all -- * * 0.0.0.0/0            0.0.0.0/0
 40 2944 ufw-track-input all -- * * 0.0.0.0/0            0.0.0.0/0
 0 0 ACCEPT     tcp -- * * 0.0.0.0/0            0.0.0.0/0            tcp dpt:21

```

View rule by input chain and by line number, delete by input chain+linenumber

```

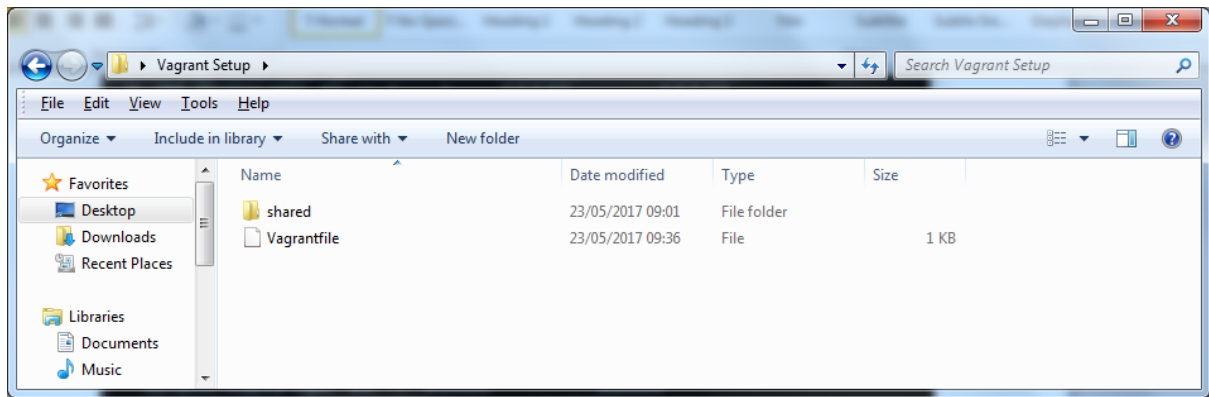
Chain INPUT (policy DROP)
num target     prot opt source               destination
1  ufw-before-logging-input all -- anywhere            anywhere
2  ufw-before-input all -- anywhere            anywhere
3  ufw-after-input all -- anywhere            anywhere
4  ufw-after-logging-input all -- anywhere            anywhere
5  ufw-reject-input all -- anywhere            anywhere
6  ufw-track-input all -- anywhere            anywhere
7  ACCEPT      tcp -- anywhere            anywhere            tcp dpt:ftp
root@ip-172-31-10-21:/home/QACPawan/MyProject# iptables -L INPUT --line-number
Chain INPUT (policy DROP)
num target     prot opt source               destination
1  ufw-before-logging-input all -- anywhere            anywhere
2  ufw-before-input all -- anywhere            anywhere
3  ufw-after-input all -- anywhere            anywhere
4  ufw-after-logging-input all -- anywhere            anywhere
5  ufw-reject-input all -- anywhere            anywhere
6  ufw-track-input all -- anywhere            anywhere
7  ACCEPT      tcp -- anywhere            anywhere            tcp dpt:ftp
root@ip-172-31-10-21:/home/QACPawan/MyProject# iptables -D INPUT 7
root@ip-172-31-10-21:/home/QACPawan/MyProject# iptables -L INPUT --line-number
Chain INPUT (policy DROP)
num target     prot opt source               destination
1  ufw-before-logging-input all -- anywhere            anywhere
2  ufw-before-input all -- anywhere            anywhere
3  ufw-after-input all -- anywhere            anywhere
4  ufw-after-logging-input all -- anywhere            anywhere
5  ufw-reject-input all -- anywhere            anywhere
6  ufw-track-input all -- anywhere            anywhere
root@ip-172-31-10-21:/home/QACPawan/MyProject#

```

Task 6: Vagrant scripting

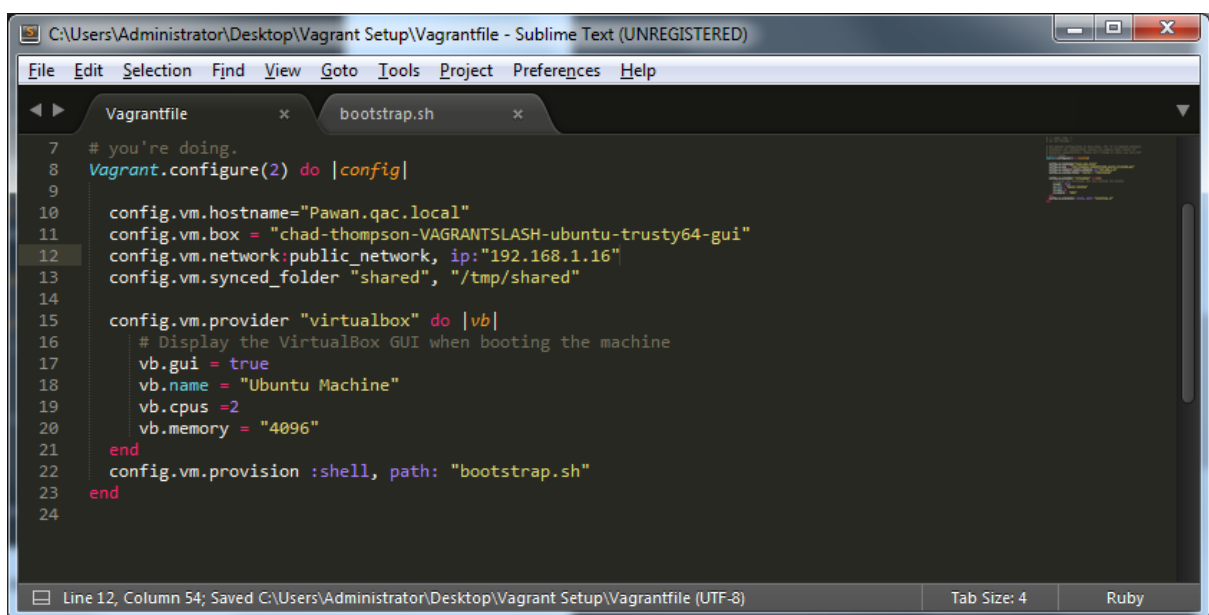
Create directory "Vagrant Setup" - in here open Git bash and use the command, *vagrant init*, to initialise a new vagrant repository. This should add a Vagrantfile to the directory

Create a shared folder to use with VM.

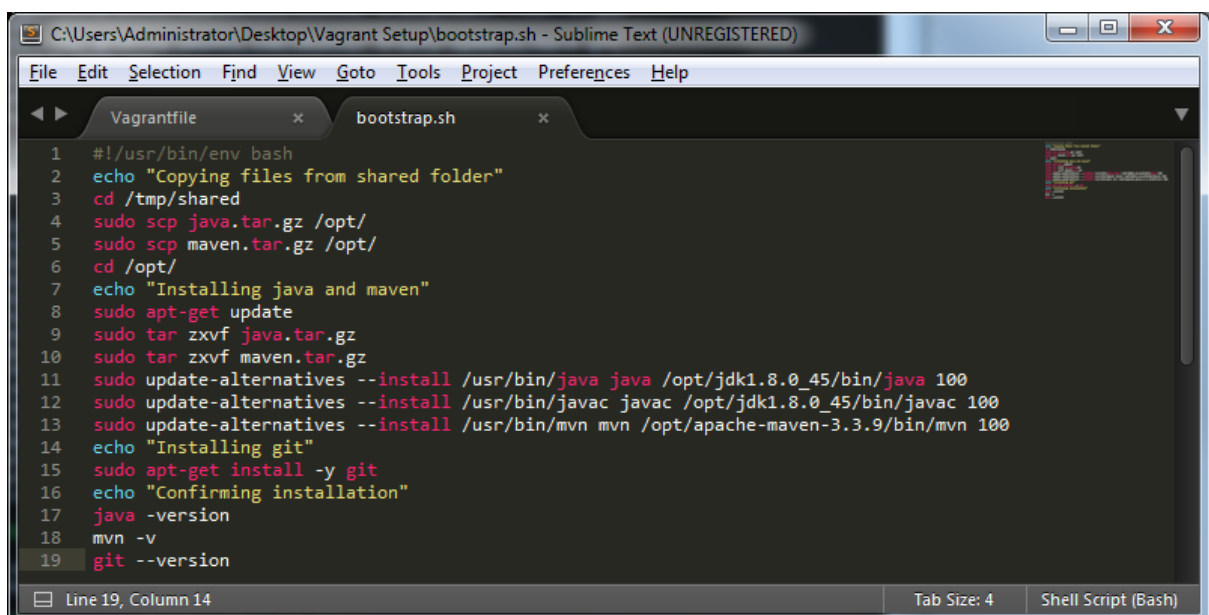


For single VM installation

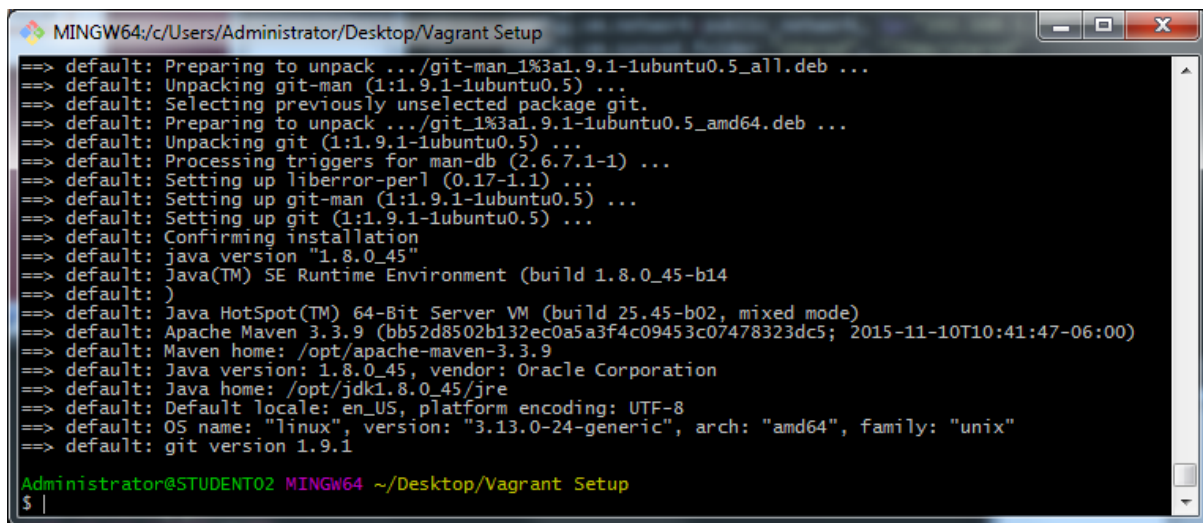
Edited vagrantfile to setup the VM with required specification.



Bash script used to install JAVA, Maven and Git on VM.



Use "vagrant up" on the folder with vagrantfile to create VM and run bash script.



```
MINGW64:/c/Users/Administrator/Desktop/Vagrant Setup
==> default: Preparing to unpack .../git-man_1%3a1.9.1-1ubuntu0.5_all.deb ...
==> default: Unpacking git-man (1:1.9.1-1ubuntu0.5) ...
==> default: Selecting previously unselected package git.
==> default: Preparing to unpack .../git_1%3a1.9.1-1ubuntu0.5_amd64.deb ...
==> default: Unpacking git (1:1.9.1-1ubuntu0.5) ...
==> default: Processing triggers for man-db (2.6.7.1-1) ...
==> default: Setting up liberror-perl (0.17-1.1) ...
==> default: Setting up git-man (1:1.9.1-1ubuntu0.5) ...
==> default: Setting up git (1:1.9.1-1ubuntu0.5) ...
==> default: Confirming installation
==> default: java version "1.8.0_45"
==> default: Java(TM) SE Runtime Environment (build 1.8.0_45-b14
==> default: )
==> default: Java HotSpot(TM) 64-Bit Server VM (build 25.45-b02, mixed mode)
==> default: Apache Maven 3.3.9 (bb52d8502b132ec0a5a3f4c09453c07478323dc5; 2015-11-10T10:41:47-06:00)
==> default: Maven home: /opt/apache-maven-3.3.9
==> default: Java version: 1.8.0_45, vendor: Oracle Corporation
==> default: Java home: /opt/jdk1.8.0_45/jre
==> default: Default locale: en_US, platform encoding: UTF-8
==> default: OS name: "linux", version: "3.13.0-24-generic", arch: "amd64", family: "unix"
==> default: git version 1.9.1

Administrator@STUDENT02 MINGW64 ~/Desktop/Vagrant Setup
$
```

For multiple VM installation

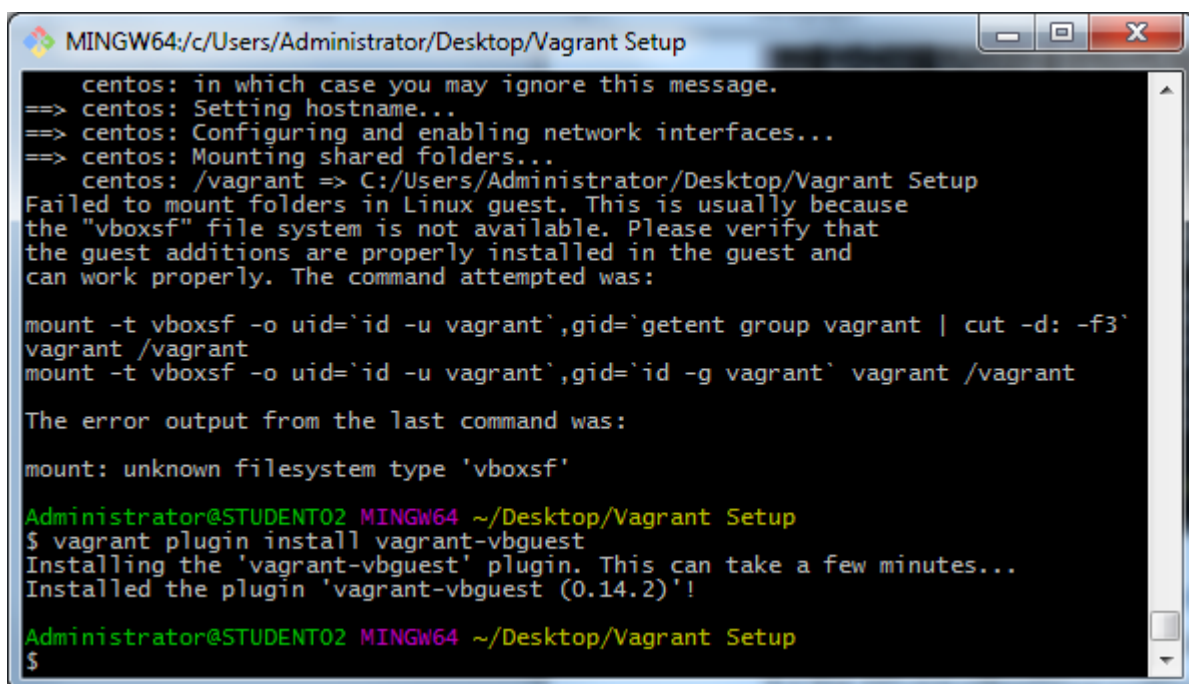
For CentOS installation, edit C:\Users\Administrator\.vagrant.d\boxes\centos-VAGRANTSLASH-7\1704.01\virtualbox\Vagrantfile

```
config.vm.synced_folder ".", "/vagrant", type: "rsync"
```

```
config.vm.synced_folder ".", "/vagrant", type: "virtualbox"
```

Rsync isn't installed.

Run **vagrant plugin install vagrant-vbguest** on git bash as the shared folder encounters problem with CentOS due to mismatch of GuestAdditions between CentOS and virtualbox.



```
MINGW64:/c/Users/Administrator/Desktop/Vagrant Setup
centos: in which case you may ignore this message.
==> centos: Setting hostname...
==> centos: Configuring and enabling network interfaces...
==> centos: Mounting shared folders...
centos: /vagrant => C:/Users/Administrator/Desktop/Vagrant Setup
Failed to mount folders in Linux guest. This is usually because
the "vboxsf" file system is not available. Please verify that
the guest additions are properly installed in the guest and
can work properly. The command attempted was:

mount -t vboxsf -o uid=id -u vagrant,gid=getent group vagrant | cut -d: -f3
vagrant /vagrant
mount -t vboxsf -o uid=id -u vagrant,gid=id -g vagrant vagrant /vagrant

The error output from the last command was:

mount: unknown filesystem type 'vboxsf'

Administrator@STUDENT02 MINGW64 ~/Desktop/Vagrant Setup
$ vagrant plugin install vagrant-vbguest
Installing the 'vagrant-vbguest' plugin. This can take a few minutes...
Installed the plugin 'vagrant-vbguest (0.14.2)'!

Administrator@STUDENT02 MINGW64 ~/Desktop/Vagrant Setup
$
```


Vagrantfile for multiple VM

```
8 Vagrant.configure(2) do |config|
9   config.vm.define "ubuntu" do |ubuntu|
10     ubuntu.vm.hostname="Pawan.qac.local"
11     ubuntu.vm.box = "chad-thompson-VAGRANTSLASH-ubuntu-trusty64-gui"
12     ubuntu.vm.network:public_network, ip:"192.168.1.17"
13     ubuntu.vm.synced_folder "shared", "/tmp/shared"
14
15     ubuntu.vm.provider "virtualbox" do |vb|
16       # Display the VirtualBox GUI when booting the machine
17       vb.gui = true
18       vb.name = "Ubuntu Machine"
19       vb.cpus =2
20       vb.memory = "4096"
21     end
22   end
23   config.vm.define "centos" do |centos|
24     centos.vm.hostname="Pawan1.qac.local"
25     centos.vm.box = "centos-VAGRANTSLASH-7"
26     centos.vm.network:public_network
27     centos.vm.synced_folder "shared", "/tmp/shared"
28
29     centos.vm.provider "virtualbox" do |vb|
30       # Display the VirtualBox GUI when booting the machine
31       vb.gui = true
32       vb.name = "CentOS"
33       vb.cpus =2
34       vb.memory = "4096"
35     end
36   end
37   config.vm.provision :shell, path: "bootstrap.sh"
38 end
```

Line 38, Column 4; Saved C:\Users\Administrator\Desktop\Vagrant Setup\Vagrantfile (UTF-8) Tab Size: 4 Ruby

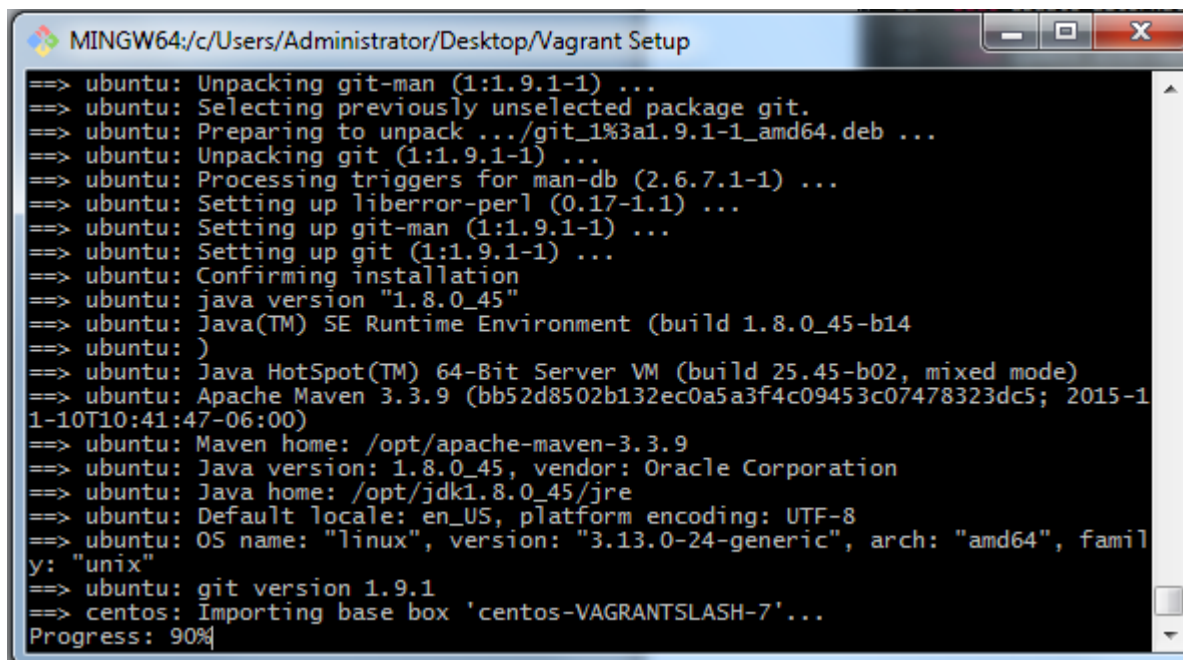
Script file for multiple VM

```
C:\Users\Administrator\Desktop\Vagrant Setup\bootstrap.sh - Sublime Text (UNREGISTERED)
File Edit Selection Find View Goto Tools Project Preferences Help
Vagrantfile — Desktop\Vagrant Setup x Vagrantfile — .vagrant.d\...virtualbox x bootstrap.sh x
1 #!/usr/bin/env bash
2 echo "Copying files from shared folder"
3 cd /tmp/shared
4 sudo scp java.tar.gz /opt/
5 sudo scp maven.tar.gz /opt/
6 cd /opt/
7 echo "Installing java and maven"
8 if [ "$(. /etc/os-release; echo $NAME)" = "Ubuntu" ]; then
9   sudo apt-get install updates
10 else
11   sudo yum update
12 fi
13 sudo tar zxvf java.tar.gz
14 sudo tar zxvf maven.tar.gz
15 sudo update-alternatives --install /usr/bin/java java /opt/jdk1.8.0_45/bin/java 100
16 sudo update-alternatives --install /usr/bin/javac javac /opt/jdk1.8.0_45/bin/javac 100
17 sudo update-alternatives --install /usr/bin/mvn mvn /opt/apache-maven-3.3.9/bin/mvn 100
18 echo "Installing git"
19 if [ "$(. /etc/os-release; echo $NAME)" = "Ubuntu" ]; then
20   sudo apt-get install -y git
21 else
22   sudo yum install -y git
23 fi
24 echo "Confirming installation"
25 java -version
26 mvn -v
27 git --version
```

Line 22, Column 26 Tab Size: 4 Shell Script (Bash)

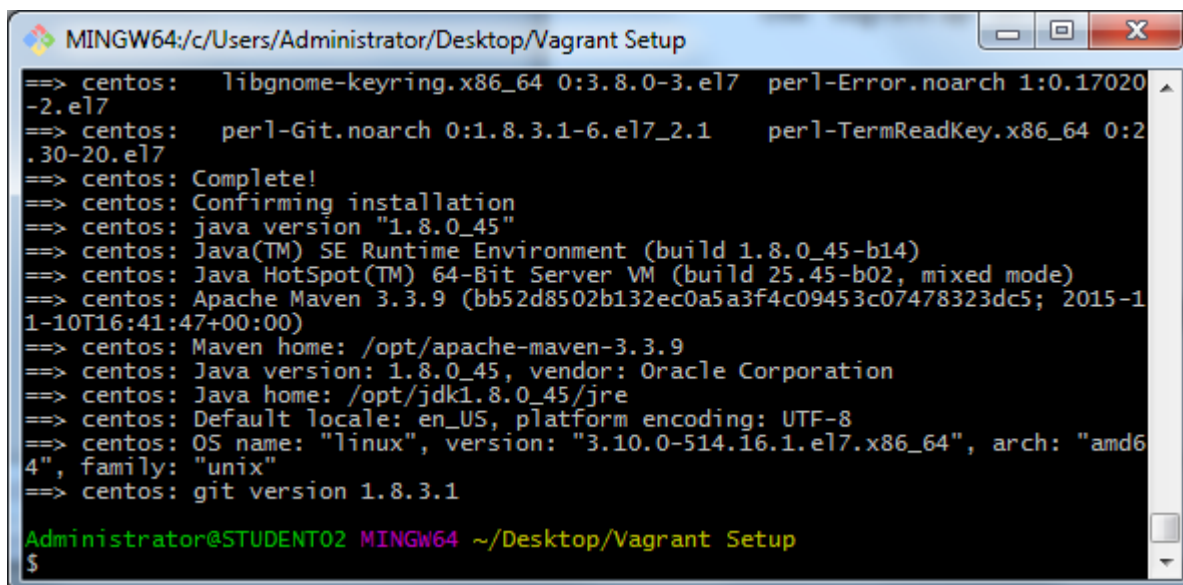
Use “vagrant up” on the folder with vagrantfile to create VM and run bash script.

Ubuntu installed with JAVA, MAVEN, and GIT.



```
==> ubuntu: Unpacking git-man (1:1.9.1-1) ...
==> ubuntu: Selecting previously unselected package git.
==> ubuntu: Preparing to unpack ../git_1%3a1.9.1-1_amd64.deb ...
==> ubuntu: Unpacking git (1:1.9.1-1) ...
==> ubuntu: Processing triggers for man-db (2.6.7.1-1) ...
==> ubuntu: Setting up liberror-perl (0.17-1.1) ...
==> ubuntu: Setting up git-man (1:1.9.1-1) ...
==> ubuntu: Setting up git (1:1.9.1-1) ...
==> ubuntu: Confirming installation
==> ubuntu: java version "1.8.0_45"
==> ubuntu: Java(TM) SE Runtime Environment (build 1.8.0_45-b14)
==> ubuntu: )
==> ubuntu: Java HotSpot(TM) 64-Bit Server VM (build 25.45-b02, mixed mode)
==> ubuntu: Apache Maven 3.3.9 (bb52d8502b132ec0a5a3f4c09453c07478323dc5; 2015-1
1-10T10:41:47-06:00)
==> ubuntu: Maven home: /opt/apache-maven-3.3.9
==> ubuntu: Java version: 1.8.0_45, vendor: Oracle Corporation
==> ubuntu: Java home: /opt/jdk1.8.0_45/jre
==> ubuntu: Default locale: en_US, platform encoding: UTF-8
==> ubuntu: OS name: "linux", version: "3.13.0-24-generic", arch: "amd64", famil
y: "unix"
==> ubuntu: git version 1.9.1
==> centos: Importing base box 'centos-VAGRANTSLASH-7'...
Progress: 90%
```

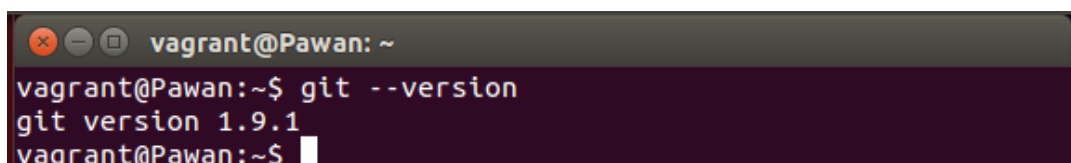
CentOS installed with JAVA, MAVEN, and GIT.



```
==> centos: libgnome-keyring.x86_64 0:3.8.0-3.e17 perl-Error.noarch 1:0.17020
-2.e17
==> centos: perl-Git.noarch 0:1.8.3.1-6.e17_2.1 perl-TermReadKey.x86_64 0:2
.30-20.e17
==> centos: Complete!
==> centos: Confirming installation
==> centos: java version "1.8.0_45"
==> centos: Java(TM) SE Runtime Environment (build 1.8.0_45-b14)
==> centos: Java HotSpot(TM) 64-Bit Server VM (build 25.45-b02, mixed mode)
==> centos: Apache Maven 3.3.9 (bb52d8502b132ec0a5a3f4c09453c07478323dc5; 2015-1
1-10T16:41:47+00:00)
==> centos: Maven home: /opt/apache-maven-3.3.9
==> centos: Java version: 1.8.0_45, vendor: Oracle Corporation
==> centos: Java home: /opt/jdk1.8.0_45/jre
==> centos: Default locale: en_US, platform encoding: UTF-8
==> centos: OS name: "linux", version: "3.10.0-514.16.1.e17.x86_64", arch: "amd6
4", family: "unix"
==> centos: git version 1.8.3.1
Administrator@STUDENT02 MINGW64 ~/Desktop/Vagrant Setup
$
```

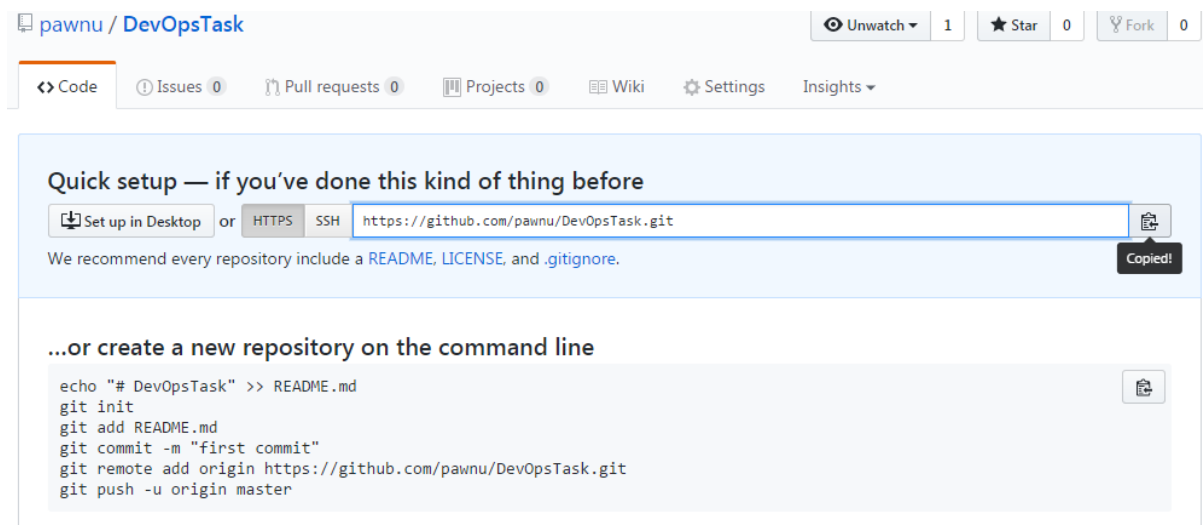
Task 7: Repository Management

Confirmed Git is installed in VM

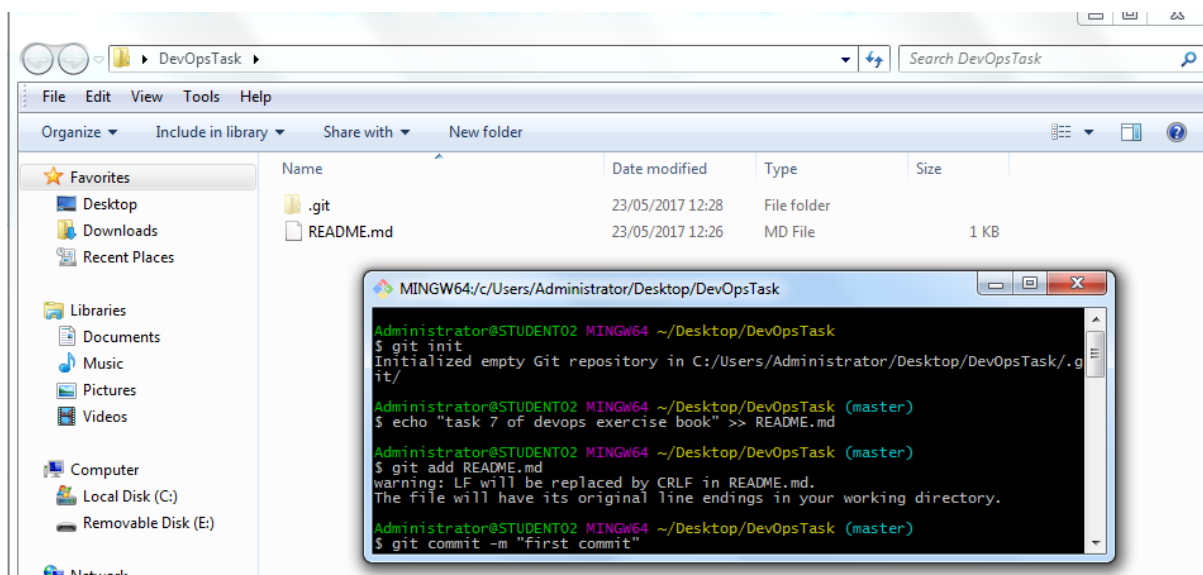


```
vagrant@Pawan: ~
vagrant@Pawan:~$ git --version
git version 1.9.1
vagrant@Pawan:~$
```

On Windows host machine, create a repository on github.



On host windows machine, create a directory for git and use "git init" command on that folder. Create a file, add and commit it.



Add the commit to your repository on github with HTTPS link and push the changes.

```
MINGW64:/c/Users/Administrator/Desktop/DevOpsTask
Administrator@STUDENT02 MINGW64 ~/Desktop/DevOpsTask (master)
$ git commit -m "first commit"
[master (root-commit) c4c5727] first commit
1 file changed, 1 insertion(+)
create mode 100644 README.md

Administrator@STUDENT02 MINGW64 ~/Desktop/DevOpsTask (master)
$ git remote add origin https://github.com/pawnu/DevOpsTask.git

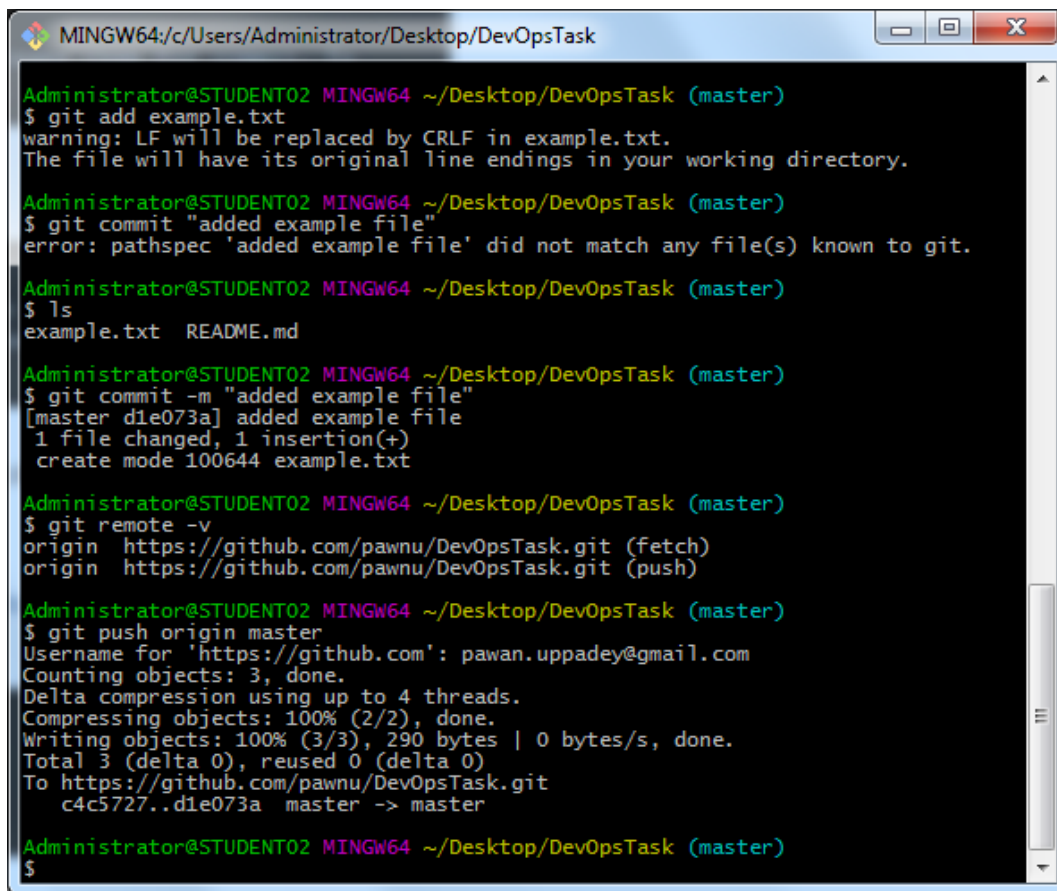
Administrator@STUDENT02 MINGW64 ~/Desktop/DevOpsTask (master)
$ git push -u origin master
Username for 'https://github.com': pawan.uppadey@gmail.com
Counting objects: 3, done.
Writing objects: 100% (3/3), 243 bytes | 0 bytes/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/pawnu/DevOpsTask.git
* [new branch]      master -> master
Branch master set up to track remote branch master from origin.

Administrator@STUDENT02 MINGW64 ~/Desktop/DevOpsTask (master)
$ |
```

On Ubuntu guest machine, clone and confirm the file created earlier is present.

```
vagrant@Pawan: ~/Desktop/DevOps/DevOpsTask
vagrant@Pawan:~$ ls
Desktop  Downloads  Music  Public  Videos
Documents  examples.desktop  Pictures  Templates
vagrant@Pawan:~$ cd Desktop/
vagrant@Pawan:~/Desktop$ ls
vagrant@Pawan:~/Desktop$ mkdir DevOps
vagrant@Pawan:~/Desktop$ cd DevOps/
vagrant@Pawan:~/Desktop/DevOps$ ls
vagrant@Pawan:~/Desktop/DevOps$ git clone https://github.com/pawnu/DevOpsTask.git
Cloning into 'DevOpsTask'...
remote: Counting objects: 3, done.
remote: Total 3 (delta 0), reused 3 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), done.
Checking connectivity... done.
vagrant@Pawan:~/Desktop/DevOps$ ls
DevOpsTask
vagrant@Pawan:~/Desktop/DevOps$ cd DevOpsTask/
vagrant@Pawan:~/Desktop/DevOps/DevOpsTask$ ls
README.md
vagrant@Pawan:~/Desktop/DevOps/DevOpsTask$ cat README.md
task 7 of devops exercise book
vagrant@Pawan:~/Desktop/DevOps/DevOpsTask$
```

Create a new file on Windows host machine and push change to repository.



```
MINGW64/c:/Users/Administrator/Desktop/DevOpsTask

Administrator@STUDENT02 MINGW64 ~/Desktop/DevOpsTask (master)
$ git add example.txt
warning: LF will be replaced by CRLF in example.txt.
The file will have its original line endings in your working directory.

Administrator@STUDENT02 MINGW64 ~/Desktop/DevOpsTask (master)
$ git commit "added example file"
error: pathspec 'added example file' did not match any file(s) known to git.

Administrator@STUDENT02 MINGW64 ~/Desktop/DevOpsTask (master)
$ ls
example.txt  README.md

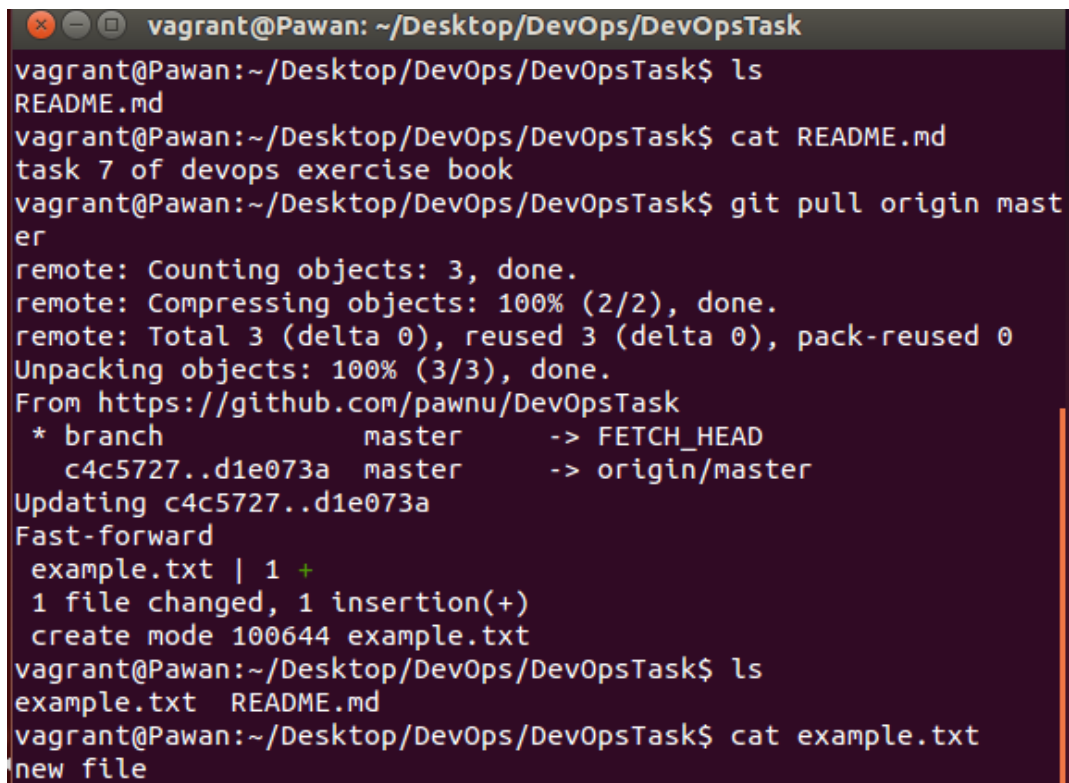
Administrator@STUDENT02 MINGW64 ~/Desktop/DevOpsTask (master)
$ git commit -m "added example file"
[master d1e073a] added example file
1 file changed, 1 insertion(+)
create mode 100644 example.txt

Administrator@STUDENT02 MINGW64 ~/Desktop/DevOpsTask (master)
$ git remote -v
origin  https://github.com/pawnu/DevOpsTask.git (fetch)
origin  https://github.com/pawnu/DevOpsTask.git (push)

Administrator@STUDENT02 MINGW64 ~/Desktop/DevOpsTask (master)
$ git push origin master
Username for 'https://github.com': pawan.uppadey@gmail.com
Counting objects: 3, done.
Delta compression using up to 4 threads.
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 290 bytes | 0 bytes/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/pawnu/DevOpsTask.git
 c4c5727..d1e073a  master -> master

Administrator@STUDENT02 MINGW64 ~/Desktop/DevOpsTask (master)
$
```

Confirm the file present on Ubuntu guest machine.



```
vagrant@Pawan: ~/Desktop/DevOps/DevOpsTask

vagrant@Pawan:~/Desktop/DevOps/DevOpsTask$ ls
README.md
vagrant@Pawan:~/Desktop/DevOps/DevOpsTask$ cat README.md
task 7 of devops exercise book
vagrant@Pawan:~/Desktop/DevOps/DevOpsTask$ git pull origin mast
er
remote: Counting objects: 3, done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 3 (delta 0), reused 3 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), done.
From https://github.com/pawnu/DevOpsTask
 * branch                master      -> FETCH_HEAD
   c4c5727..d1e073a  master      -> origin/master
Updating c4c5727..d1e073a
Fast-forward
 example.txt | 1 +
 1 file changed, 1 insertion(+)
 create mode 100644 example.txt
vagrant@Pawan:~/Desktop/DevOps/DevOpsTask$ ls
example.txt  README.md
vagrant@Pawan:~/Desktop/DevOps/DevOpsTask$ cat example.txt
new file
```


Make change to a file on Ubuntu and push to repository

```
vagrant@Pawan:~/Desktop/DevOps/DevOpsTask$ git add example.txt
vagrant@Pawan:~/Desktop/DevOps/DevOpsTask$ git commit -m "made
change to example text file"
[master 179bba0] made change to example text file
  Committer: Vagrant <vagrant@Pawan.qac.local>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accur
ate.
You can suppress this message by setting them explicitly:

    git config --global user.name "Your Name"
    git config --global user.email you@example.com

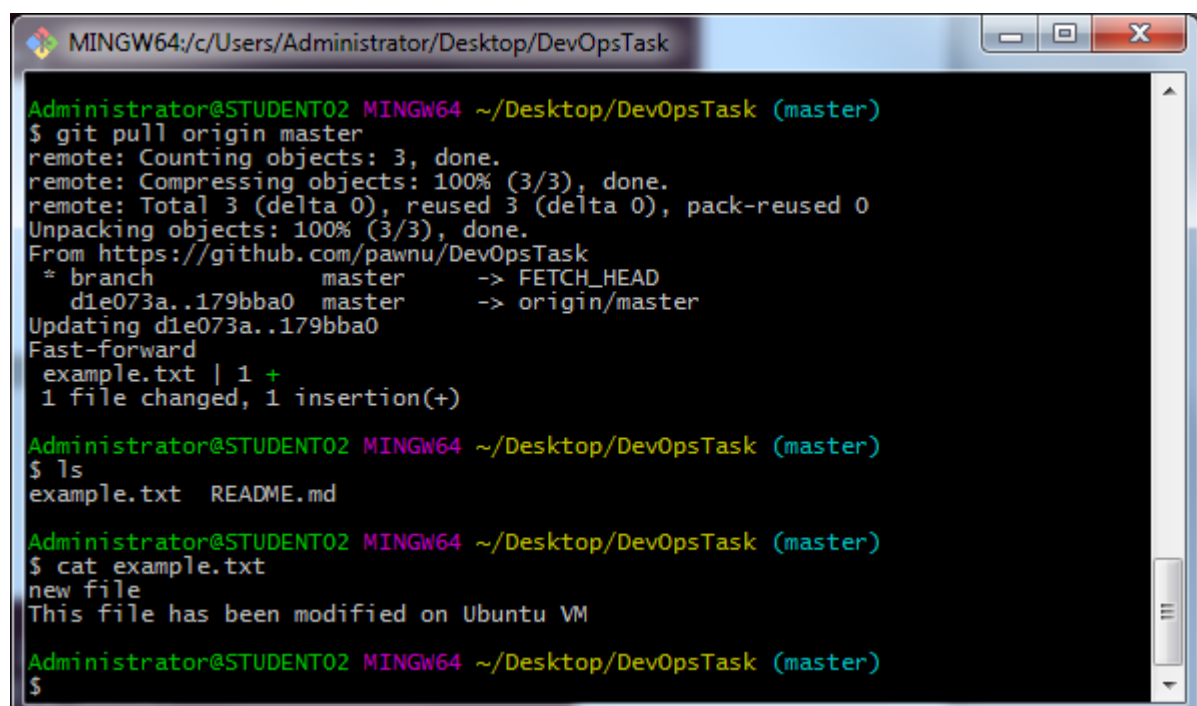
After doing this, you may fix the identity used for this commit
with:

    git commit --amend --reset-author

1 file changed, 1 insertion(+)
```

```
Counting objects: 5, done.
Delta compression using up to 2 threads.
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 339 bytes | 0 bytes/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/pawnu/DevOpsTask.git
   d1e073a..179bba0  master -> master
vagrant@Pawan:~/Desktop/DevOps/DevOpsTask$
```

Confirm changes on Windows host machine side



The screenshot shows a Windows terminal window titled "MINGW64: c:/Users/Administrator/Desktop/DevOpsTask". The terminal output shows the following commands and results:

```
Administrator@STUDENT02 MINGW64 ~/Desktop/DevOpsTask (master)
$ git pull origin master
remote: Counting objects: 3, done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 3 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), done.
From https://github.com/pawnu/DevOpsTask
 * branch            master       -> FETCH_HEAD
   d1e073a..179bba0  master       -> origin/master
Updating d1e073a..179bba0
Fast-forward
 example.txt | 1 +
 1 file changed, 1 insertion(+)

Administrator@STUDENT02 MINGW64 ~/Desktop/DevOpsTask (master)
$ ls
example.txt  README.md

Administrator@STUDENT02 MINGW64 ~/Desktop/DevOpsTask (master)
$ cat example.txt
new file
This file has been modified on Ubuntu VM

Administrator@STUDENT02 MINGW64 ~/Desktop/DevOpsTask (master)
$
```