

# 멋쟁이 사자처럼

# Vagrant 로 로컬 개발 환경 만들기

for windows OS

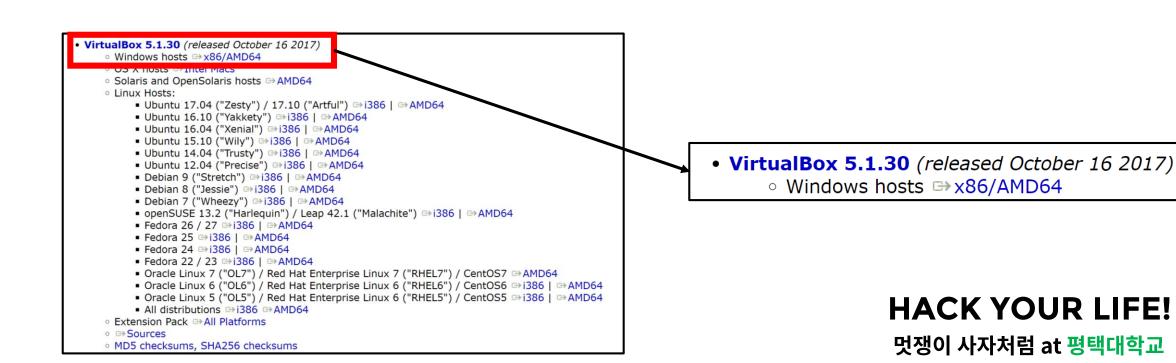
# 시작 전 해야 할 일

- **▼VirtualBox 설치**
- **▼Vagrant 설치**
- **▼Git 설치** 
  - 설치 시 모든 설정은 초기 설정 유지!

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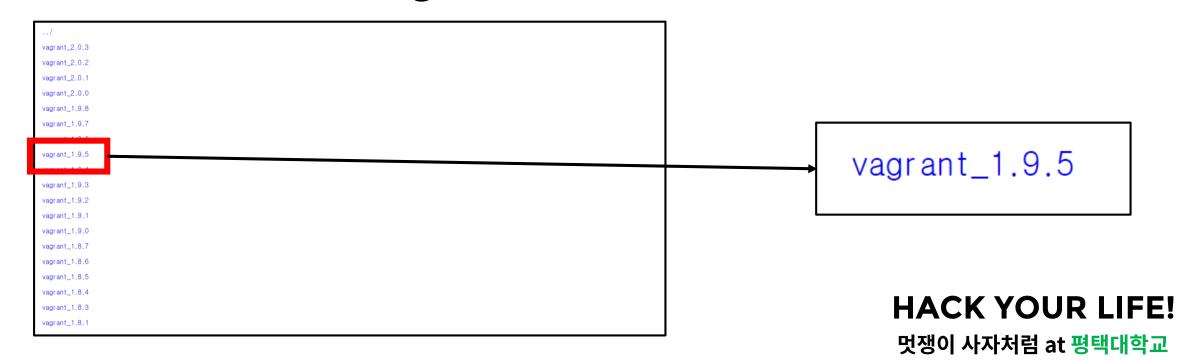
### VirtualBox 설치 🖊

- https://www.virtualbox.org/wiki/Download\_Old\_Builds\_5\_1
  - 위 링크로 접속하여 VirtualBox 5.1.30 version 설치



# Vagrant 설치

- https://releases.hashicorp.com/vagrant/?\_ga=2.237010176. 1475687836.1513147132-756484628.1513147132
  - 위 링크로 접속하여 Vagrant\_1.9.5 version 설치



# Git for window 설치

- https://gitforwindows.org/
  - 위 링크로 접속하여 현재 버전 설치



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### 가상 환경 설정하기 🦊

※지금부터는 2번째 강의의 "github 링크 자료" 를 중심으로 보며 참조하세요



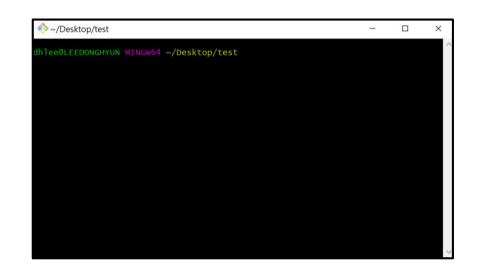
- 1. 원하는 위치에 원하는 이름의 폴더를 만듭니다.
- 한글 이름도 상관 없는 것 같지만, 혹시 모르니 영어 이름으로 만들기를 권장합니다!



2. 폴더를 우 클릭 후 git Bash Here을 눌러줍시다!

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#### 가상 환경 설정하기 🖊



3. 요런게 나왔을텐데 vagrant init 명령어를 입력 후 Enter!

dhlee@LEEDONGHYUN MINGW64 ~/Desktop/test
vagrant init
A `Vagrantfile` has been placed in this directory. You are now ready to `vagrant up` your first virtual environment! Please read the comments in the Vagrantfile as well as documentation on `vagrantup.com` for more information on using Vagrant.

dhlee@LEEDONGHYUN MINGW64 ~/Desktop/test

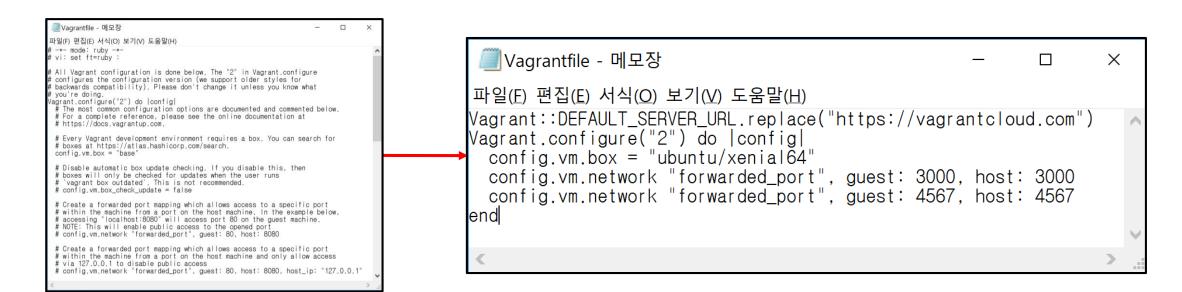
이런 결과가 나왔다면 성공! 해당 폴더로 들어가 봅시다.

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### 가상 환경 설정하기



4. Vagrantfile을 텍스트 편집기로 열고 내용을 바꾸어 저장합니다.



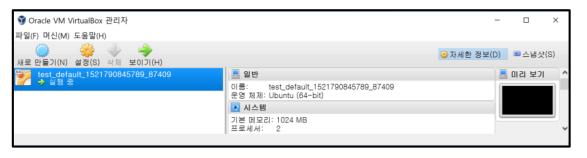
- 텍스트를 편집 할 수 있다면 어떤 프로그램으로 수정해도 관계는 없지만

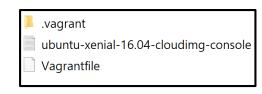
Atom이나 sublime과 같은 text-editer를 설치하여 사용할 것을 권장합니다!

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### 가상 환경 만들기

- 5. 다시 bash로 돌아와 Vagrant ssh 명령어를 입력 후 Enter!
- 우측과 같은 결과들이 나오지 않았다면,사전 설치 파일들이 정확히 설치 되었는지 확인!
- 환경에 따라 시간이 많이 소요될 수 있습니다.





-명령어 이후 생성된 폴더와 파일

-최종적으로 만들어진 가상 환경은 VirtualBox 관리자에서 확인 가능합니다.

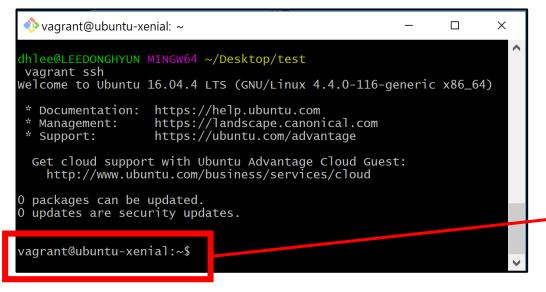
```
~/Desktop/test
                                                            > default: have version '20180320.0.0'. The latest is version '20

    default: `vagrant box update` to update.

   default: Clearing any previously set network interfaces...
   default: Preparing network interfaces based on configuration.
  default: Forwarding ports...
default: 3000 (guest) => 3000 (host) (adapter 1)
   default: 4567 (guest) => 4567 (host) (adapter 1)
   default: 22 (guest) => 2222 (host) (adapter 1)
  default: Running 'pre-boot' VM customizations...
   default: Booting VM...
   default: Waiting for machine to boot. This may take a few minut
  default: SSH username: vagrant
  default: SSH auth method: private key
  default: Warning: Connection reset. Retrying...
  default: Vagrant insecure key detected. Vagrant will automatica
   default: this with a newly generated keypair for better securit
  default: Inserting generated public key within guest...
  default: Removing insecure key from the guest if it's present.
   default: Key inserted! Disconnecting and reconnecting using new
=> default: Machine booted and ready
  default: Checking for guest additions in VM...
  default: The guest additions on this VM do not match the instal
  default: VirtualBox! In most cases this is fine, but in rare ca
  default: prevent things such as shared folders from working pre
  default: shared folder errors, please make sure the guest addi
  installed on
  default: your host and reload your VM.
  default: Guest Additions Version: 5.0.40
   default: VirtualBox Version: 5.1
   default: Mounting shared folders...
   default: /vagrant => C:/Users/dhlee/Desktop/test
```

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### 가상 환경 접속하기

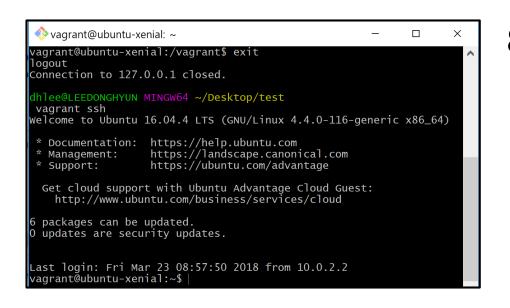


6. 이어서 vagrant ssh 명령어를 입력 후 Enter!

-이 상태가 가상 머신에 접속되었음을 의미합니다.

- 위와 같은 결과가 나오지 않았다면, 가상 환경이 정상적으로 만들어 졌는지 확인합시다!

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8. 이어서 할 경우:

가상 환경에서 설치 되어야 하기 때문에

"exit" 명령어로 로그아웃 후 다시 접속하길 바랍니다.

- 이와 같은 상태에서 진행되어야 합니다.

vagrant@ubuntu-xenial:~\$

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#### 9. Bash에 순서대로 한줄 한줄 복사 붙여 넣기 후 Enter!

- 지금부터는 명령어 입력 시 결과 확인용으로, 같은 결과가 나왔는지 비교하시면 되겠습니다.

#### 오류가 발생하면 명령어 행을 정확히 입력했는지 확인해봅시다!

curl -sL https://deb.nodesource.com/setup\_8.x | sudo -E bash -

- 이것 저것 진행됩니다. 시간이 많이 소요되면 정상 작동입니다.

```
curl -ss https://dl.yarnpkg.com/debian/pubkey.gpg | sudo apt-key add -
```

vagrant@ubuntu-xenial:~\$ curl -sS https://dl.yarnpkg.com/debian/pubk ey.gpg | sudo apt-key add ok

```
echo "deb https://dl.yarnpkg.com/debian/
stable main" | sudo tee /etc/apt/sources.list.d/yarn.list
```

vagrant@ubuntu-xenial:~\$ echo "deb https://dl.yarnpkg.com/debian/ st
able main" | sudo tee /etc/apt/sources.list.d/yarn.list
deb https://dl.yarnpkg.com/debian/ stable main



#### sudo apt-get update

```
vagrant@ubuntu-xenial:~$ sudo apt-get update
Hit:1 https://deb.nodesource.com/node_8.x xenial InRelease
Get:2 https://dl.yarnpkg.com/debian stable InRelease [11.5 kB]
Hit:3 http://security.ubuntu.com/ubuntu xenial-security InRelease
Get:4 https://dl.yarnpkg.com/debian stable/main amd64 Packages [6,966 B]
Get:5 https://dl.yarnpkg.com/debian stable/main all Packages [6,966 B]
Hit:6 http://archive.ubuntu.com/ubuntu xenial InRelease
Hit:7 http://archive.ubuntu.com/ubuntu xenial-updates InRelease
Hit:8 http://archive.ubuntu.com/ubuntu xenial-backports InRelease
Fetched 25.4 kB in 1s (15.6 kB/s)
Reading package lists... Done
vagrant@ubuntu-xenial:~$
```

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sudo apt-get install git-core curl zlib1g-dev build-essential
libssl-dev libreadline-dev libyaml-dev libsqlite3-dev sqlite3
libxml2-dev libxslt1-dev libcurl4-openssl-dev python-software-properties
libffi-dev nodejs yarn

```
vagrant@ubuntu-xenial: ~
                                                                                 \times
                                                                         П
Setting up libitm1:amd64 (5.4.0-6ubuntu1~16.04.9) ...
Setting up libatomic1:amd64 (5.4.0-6ubuntu1~16.04.9) ...
Setting up libasan2:amd64 (5.4.0-6ubuntu1~16.04.9) ...
Setting up liblsan0:amd64 (5.4.0-6ubuntu1~16.04.9) ...
Setting up libtsan0:amd64 (5.4.0-6ubuntu1~16.04.9) ...
Setting up libubsan0:amd64 (5.4.0-6ubuntu1~16.04.9) ...
Setting up libcilkrts5:amd64 (5.4.0-6ubuntu1~16.04.9) ...
Setting up libmpx0:amd64 (5.4.0-6ubuntu1~16.04.9) ...
Setting up libquadmath0:amd64 (5.4.0-6ubuntu1~16.04.9) ...
Setting up libgcc-5-dev:amd64 (5.4.0-6ubuntu1~16.04.9) ...
Setting up gcc-5 (5.4.0-6ubuntu1~16.04.9) ...
Setting up gcc (4:5.3.1-1ubuntu1) ...
Setting up libstdc++-5-dev:amd64 (5.4.0-6ubuntu1~16.04.9) ...
Setting up g++-5 (5.4.0-6ubuntu1~16.04.9) ...
Setting up g++ (4:5.3.1-1ubuntu1) ...
update-alternatives: using /usr/bin/g++ to provide /usr/bin/c++ (c++
 in auto mode
Setting up make (4.1-6) ...
Setting up libdpkg-perl (1.18.4ubuntu1.4) ...
Setting up dpkg-dev (1.18.4ubuntu1.4) ...
Setting up build-essential (12.1ubuntu2) ...
Setting up libfakeroot:amd64 (1.20.2-1ubuntul)
```

- 이것 저것 자동으로 진행되는데 시간이 꽤 걸립니다.

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git clone https://github.com/rbenv/rbenv.git ~/.rbenv

```
vagrant@ubuntu-xenial:~$ git clone https://github.com/rbenv/rbenv.gi
t ~/.rbenv
Cloning into '/home/vagrant/.rbenv'...
remote: Counting objects: 2714, done.
remote: Total 2714 (delta 0), reused 0 (delta 0), pack-reused 2714
Receiving objects: 100% (2714/2714), 506.25 KiB | 299.00 KiB/s, done.
Resolving deltas: 100% (1700/1700), done.
Checking connectivity... done.
vagrant@ubuntu-xenial:~$
```

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```
echo 'export PATH="$HOME/.rbenv/bin:$PATH"' >> ~/.bashrc
echo 'eval "$(rbenv init -)"' >> ~/.bashrc
exec $SHELL
git clone https://github.com/rbenv/ruby-build.git ~/.rbenv/plugins/ruby-build
echo 'export PATH="$HOME/.rbenv/plugins/ruby-build/bin:$PATH"' >> ~/.bashrc
exec $SHELL

vagrant@ubuntu-xenial:~$ echo 'export PATH="$HOME/.rbenv/bin:$PATH"'
>> ~/.bashrc
```

```
vagrant@ubuntu-xenial:~$ echo 'export PATH="$HOME/.rbenv/bin:$PATH"'
vagrant@ubuntu-xenial:~$ echo 'eval "$(rbenv init -)"' >> ~/.bashrc
vagrant@ubuntu-xenial:~$ exec $SHELL
vagrant@ubuntu-xenial:~$ git clone https://github.com/rbenv/ruby-bui
ld.git ~/.rbenv/plugins/ruby-build
Cloning into '/home/vagrant/.rbenv/plugins/ruby-build'...
remote: Counting objects: 8557, done.
remote: Compressing objects: 100% (4/4), done.
remote: Total 8557 (delta 2), reused 0 (delta 0), pack-reused 8553
Receiving objects: 100% (8557/8557), 1.79 MiB | 804.00 KiB/s, done.
Resolving deltas: 100% (5452/5452), done.
Checking connectivity... done.
vagrant@ubuntu-xenial:~$ echo 'export PATH="$HOME/.rbenv/plugins/rub
y-build/bin:$PATH"' >> ~/.bashrc
vagrant@ubuntu-xenial:~$ exec $SHELL
vaarant@uhuntu_vanial
```

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```
rbenv install 2.4.0 rbenv global 2.4.0 ruby -v
```

```
vagrant@ubuntu-xenial:~$ rbenv install 2.4.0
Downloading ruby-2.4.0.tar.bz2...
-> https://cache.ruby-lang.org/pub/ruby/2.4/ruby-2.4.0.tar.bz2
Installing ruby-2.4.0...
Installed ruby-2.4.0 to /home/vagrant/.rbenv/versions/2.4.0
vagrant@ubuntu-xenial:~$ rbenv global 2.4.0
vagrant@ubuntu-xenial:~$ ruby -v
ruby 2.4.0p0 (2016-12-24 revision 57164) [x86_64-linux]
vagrant@ubuntu-xenial:~$
```

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gem install bundler rbenv rehash

```
vagrant@ubuntu-xenial:~$ gem install bundler
Fetching: bundler-1.16.1.gem (100%)
Successfully installed bundler-1.16.1
Parsing documentation for bundler-1.16.1
Installing ri documentation for bundler-1.16.1
Done installing documentation for bundler after 4 seconds
1 gem installed
vagrant@ubuntu-xenial:~$ rbenv rehash
vagrant@ubuntu-xenial:~$
```

#### **HACK YOUR LIFE!**

#### gem install rails -v 5.0.6 rbenv rehash

```
Installing ri documentation for mini_mime-1.0.0
Parsing documentation for mail-2.7.0
Installing ri documentation for mail-2.7.0
Parsing documentation for actionmailer-5.0.6
Installing ri documentation for actionmailer-5.0.6
Parsing documentation for nio4r-2.3.0
Installing ri documentation for nio4r-2.3.0
Parsing documentation for websocket-extensions-0.1.3
Installing ri documentation for websocket-extensions-0.1.3
Parsing documentation for websocket-driver-0.6.5
Installing ri documentation for websocket-driver-0.6.5
Parsing documentation for actioncable-5.0.6
Installing ri documentation for actioncable-5.0.6
Parsing documentation for thor-0.20.0
Installing ri documentation for thor-0.20.0
Parsing documentation for method_source-0.9.0
Installing ri documentation for method_source-0.9.0
Parsing documentation for railties-5.0.6
Installing ri documentation for railties-5.0.6
Parsing documentation for sprockets-3.7.1
Installing ri documentation for sprockets-3.7.1
Parsing documentation for sprockets-rails-3.2.1
Installing ri documentation for sprockets-rails-3.2.1
Parsing documentation for rails-5.0.6
Installing ri documentation for rails-5.0.6
Done installing documentation for concurrent-ruby, i18n, thread_safe
, tzinfo, activesupport, rack, rack-test, mini_portile2, nokogiri, c
rass, loofah, rails-html-sanitizer, rails-dom-testing, builder, erub
is, actionview, actionpack, activemodel, arel, activerecord, globali
d, activejob, mini_mime, mail, actionmailer, nio4r, websocket-extens
ions, websocket-driver, actioncable, thor, method_source, railties,
sprockets, sprockets-rails, rails after 63 seconds
35 gems installed
agrant@ubuntu-xenial:~$ rbenv rehash
```

#### **HACK YOUR LIFE!**

```
ruby -v
rails -v
```

```
vagrant@ubuntu-xenial:~$ ruby -v
ruby 2.4.0p0 (2016-12-24 revision 57164) [x86_64-linux]
vagrant@ubuntu-xenial:~$ rails -v
Rails 5.0.6
vagrant@ubuntu-xenial:~$
```

- Ruby와 rails의 버전을 확인하는 것으로 설치가 완료 되었음을 확인하였습니다.

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