

챗봇

▼ 챗봇

자연어처리

챗봇 : 대화

질문 > 답변 반복

의도 파악 후 답변을 잘 하는지 중요!

▼ Chat GPT

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▼ KoGPT2 활용해서 간단한 챗봇 만들기

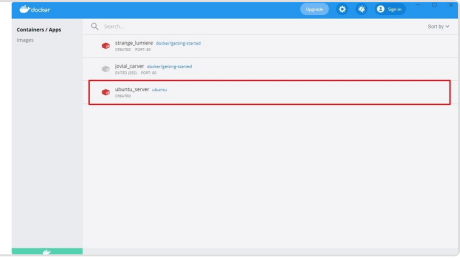
https://s3-us-west-2.amazonaws.com/secure.notion-static.com/5eb87171-4824-4719-b91e-b7359933e7b3/KoGPT2_%EC%B1%97%EB%B4%87_ipynb%EC%9D%98_%EC%82%AC%EB%B3%B8.ipynb

▼ 나만의 데이터셋으로 KoGPT2 활용해서 챗봇 만들기

▼ Windows 10 환경에서 Docker에 Ubuntu 설치 (환경설정)

[Docker] Windows10 환경에서 Docker에 Ubuntu 설치

출처 : hwan-shell.tistory.com/178?category=858112 도커]
Windows 10에서 도커로 우분투 설치하기 우선 windows 10에
있는 powershell을 켜줍니다. 도커를 정상적으로 설치가 된다면
🔗 <https://hermeslog.tistory.com/498>



1. 버전 확인

```
PS C:\Users\032> docker version
Client:
 Cloud integration: v1.0.29
 Version: 20.10.22
 API version: 1.41
 Go version: go1.18.9
 Git commit: 3a2c30b
 Built: Thu Dec 15 22:36:18 2022
 OS/Arch: windows/amd64
 Context: default
 Experimental: true

Server: Docker Desktop 4.16.1 (95567)
Engine:
 Version: 20.10.22
 API version: 1.41 (minimum version 1.12)
 Go version: go1.18.9
 Git commit: 42c8b31
 Built: Thu Dec 15 22:26:14 2022
 OS/Arch: linux/amd64
 Experimental: false
 containerd:
 Version: 1.6.14
 GitCommit: 9ba4b250366a5ddde94bb7c9d1def331423aa323
 runc:
 Version: 1.1.4
 GitCommit: v1.1.4-0-g5fd4c4d
 docker-init:
 Version: 0.19.0
 GitCommit: de40ad0
```

2. docker 우분투 찾기

```
PS C:\Users\032> docker search ubuntu
```

NAME	DESCRIPTION	STARS	OFFICIAL	AU
TOMATED				
ubuntu	Ubuntu is a Debian-based Linux operating sys...	15513	[OK]	
websphere-liberty	WebSphere Liberty multi-architecture images ...	291	[OK]	
ubuntu-upstart	DEPRECATED, as is Upstart (find other proces...	112	[OK]	
neurodebian	NeuroDebian provides neuroscience research s...	98	[OK]	
ubuntu/nginx	Nginx, a high-performance reverse proxy & we...	75		
open-liberty	Open Liberty multi-architecture images based...	56	[OK]	
ubuntu/apache2	Apache, a secure & extensible open-source HT...	53		
ubuntu-debootstrap	DEPRECATED; use "ubuntu" instead	50	[OK]	
ubuntu/squid	Squid is a caching proxy for the Web. Long-t...	50		
ubuntu/bind9	BIND 9 is a very flexible, full-featured DNS...	45		
ubuntu/mysql	MySQL open source fast, stable, multi-thread...	41		
ubuntu/prometheus	Prometheus is a systems and service monitori...	35		
ubuntu/postgres	PostgreSQL is an open source object-relatio...	23		
ubuntu/kafka	Apache Kafka, a distributed event streaming ...	21		
ubuntu/redis	Redis, an open source key-value store. Long...	16		
ubuntu/prometheus-alertmanager	Alertmanager handles client alerts from Prom...	8		
ubuntu/dotnet-deps	Chiselled Ubuntu for self-contained .NET & A...	6		
ubuntu/grafana	Grafana, a feature rich metrics dashboard & ...	6		
ubuntu/memcached	Memcached, in-memory keyvalue store for smal...	5		
ubuntu/zookeeper	ZooKeeper maintains configuration informatio...	5		
ubuntu/dotnet-runtime	Chiselled Ubuntu runtime image for .NET apps...	5		
ubuntu/telegraf	Telegraf collects, processes, aggregates & w...	4		
ubuntu/cortex	Cortex provides storage for Prometheus. Long...	3		
ubuntu/dotnet-aspnet	Chiselled Ubuntu runtime image for ASP.NET a...	3		
ubuntu/cassandra	Cassandra, an open source NoSQL distributed ...	2		

3. docker 우분투 내려받기

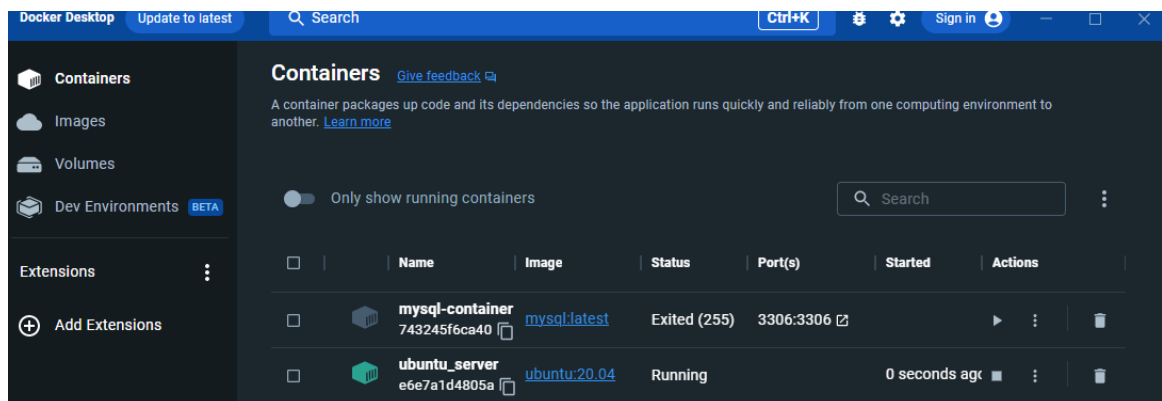
docker pull mysql 로 하지 말고

docker pull mysql:8.0.22로 버전을 지정해줘야 한다.

```
PS C:\Users\032> docker pull ubuntu:20.04
20.04: Pulling from library/ubuntu
846c0b181fff: Pull complete
Digest: sha256:0e0402cd13f68137edb0266e1d2c682f217814420f2d43d300ed8f65479b14fb
Status: Downloaded newer image for ubuntu:20.04
docker.io/library/ubuntu:20.04
```

4. docker 이미지를 Container 파일로 생성한다.

docker create -it --name ubuntu_server ubuntu:20.04



5. docker에서 start 버튼으로 서버 실행

6. docker 우분투 서버 접속

docker attach ubuntu_server

```
PS C:\Users\032> docker attach ubuntu_server
root@e6e7a1d4805a:/# cd /
root@e6e7a1d4805a:/# ll
total 56
drwxr-xr-x  1 root root 4096 Jan 30 07:28 ./
drwxr-xr-x  1 root root 4096 Jan 30 07:28 ../
-rwxr-xr-x  1 root root  0 Jan 30 07:28 .dockerenv*
lrwxrwxrwx  1 root root  7 Nov 30 02:04 bin -> usr/bin/
drwxr-xr-x  2 root root 4096 Apr 15 2020 boot/
drwxr-xr-x  5 root root 360 Jan 30 07:28 dev/
drwxr-xr-x  1 root root 4096 Jan 30 07:28 etc/
drwxr-xr-x  2 root root 4096 Apr 15 2020 home/
lrwxrwxrwx  1 root root  7 Nov 30 02:04 lib -> usr/lib/
lrwxrwxrwx  1 root root  9 Nov 30 02:04 lib32 -> usr/lib32/
lrwxrwxrwx  1 root root  9 Nov 30 02:04 lib64 -> usr/lib64/
lrwxrwxrwx  1 root root 10 Nov 30 02:04 libx32 -> usr/libx32/
drwxr-xr-x  2 root root 4096 Nov 30 02:04 media/
drwxr-xr-x  2 root root 4096 Nov 30 02:04 mnt/
drwxr-xr-x  2 root root 4096 Nov 30 02:04 opt/
dr-xr-xr-x 275 root root  0 Jan 30 07:28 proc/
drwx----- 2 root root 4096 Nov 30 02:07 root/
drwxr-xr-x  5 root root 4096 Nov 30 02:07 run/
lrwxrwxrwx  1 root root  8 Nov 30 02:04 sbin -> usr/sbin/
drwxr-xr-x  2 root root 4096 Nov 30 02:04 srv/
dr-xr-xr-x 11 root root  0 Jan 30 07:28 sys/
drwxrwxrwt  2 root root 4096 Nov 30 02:07 tmp/
drwxr-xr-x 13 root root 4096 Nov 30 02:04 usr/
drwxr-xr-x 11 root root 4096 Nov 30 02:07 var/
root@e6e7a1d4805a:/#
```

cd / : 루트로 이동

ll : 파일 리스트

7. docker 우분투 업그레이드


```
root@e6e7a1d4805a:/# apt-get update
Get:1 http://archive.ubuntu.com/ubuntu focal InRelease [265 kB]
Get:2 http://security.ubuntu.com/ubuntu focal-security InRelease [114 kB]
Get:3 http://security.ubuntu.com/ubuntu focal-security/multiverse amd64 Packages [27.7 kB]
Get:4 http://security.ubuntu.com/ubuntu focal-security/main amd64 Packages [2442 kB]
Get:5 http://archive.ubuntu.com/ubuntu focal-updates InRelease [114 kB]
Get:6 http://archive.ubuntu.com/ubuntu focal-backports InRelease [108 kB]
Get:7 http://archive.ubuntu.com/ubuntu focal/multiverse amd64 Packages [177 kB]
Get:8 http://archive.ubuntu.com/ubuntu focal/main amd64 Packages [1275 kB]
Get:9 http://security.ubuntu.com/ubuntu focal-security/restricted amd64 Packages [1882 kB]
Get:10 http://archive.ubuntu.com/ubuntu focal/universe amd64 Packages [11.3 MB]
Get:11 http://security.ubuntu.com/ubuntu focal-security/universe amd64 Packages [988 kB]
Get:12 http://archive.ubuntu.com/ubuntu focal/restricted amd64 Packages [33.4 kB]
Get:13 http://archive.ubuntu.com/ubuntu focal-updates/restricted amd64 Packages [2009 kB]
Get:14 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 Packages [2920 kB]
Err:14 http://archive.ubuntu.com/ubuntu focal-updates/main amd64 Packages
```

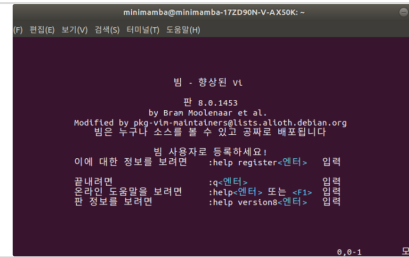
에러 고치는법

먼저 apt-get install vim 또는 apt-get install nano를 통해 진행한다.

[Linux] 리눅스 텍스트 에디터 vi와 vim, nano, gedit 차이 설명

미니맘바 • 2021. 5. 26. 1:14 세 가지 모두 같은 파일이지만 에디터에 따라 다르게 보이고 편집 방법도 다르다. 리눅스에서 사용하는 텍스트 에디터 vim, nano, gedit에 대해서 간단하게 알아보자. 그러면

 <https://blog.naver.com/PostView.naver?blogId=ycpiglet&logNo=222367301056>



sudo apt-get upgrade 다운로드 서버 변경

sudo apt-get upgrade 를 하니까 E: Some index files failed to download. They have been ignored, or old ones used instead. 이런 에러 메시지가 떴다. 그래서 인터넷을 찾아보니

☞ <https://wooriel.tistory.com/3>

```
[sudo] password for wooriel:
Hit:1 http://mirror.kakao.com/ubuntu bionic InRelease
Get:2 http://mirror.kakao.com/ubuntu bionic-updates InRelease [88.7 kB]
Get:3 http://mirror.kakao.com/ubuntu bionic-backports InRelease [74.6 kB]
Hit:4 http://packages.ros.org/ros/ubuntu bionic InRelease
Get:5 http://security.ubuntu.com/ubuntu bionic-security InRelease [88.7 kB]
Get:6 http://mirror.kakao.com/ubuntu bionic-updates/main amd64 Packages [983 kB]
Get:7 http://mirror.kakao.com/ubuntu bionic-updates/universe amd64 Packages [1087 kB]
Fetched 2322 kB in 12s (187 kB/s)
Reading package lists... Done
wooriel@DESKTOP-529345T:/$
```

vim을 통해서 외국 주소를 한국 주소로 바꿔주면 에러가 해결된다.

▼ 다음