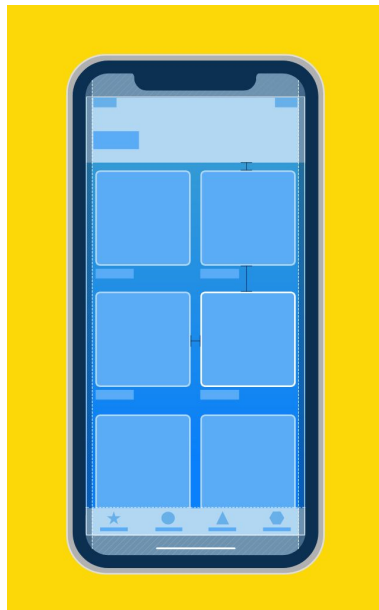


서버 & 인프라 개념 교육 (2차시)

박지호

Interface란?



Linux에 대하여



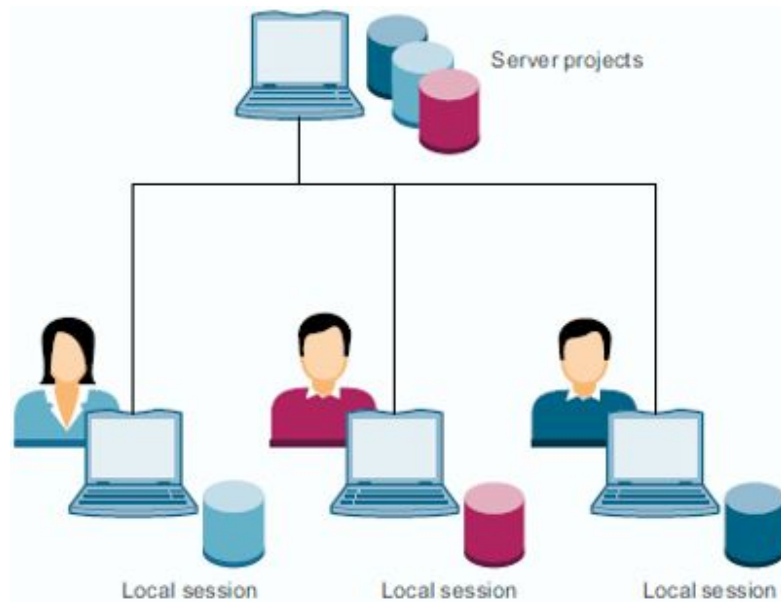
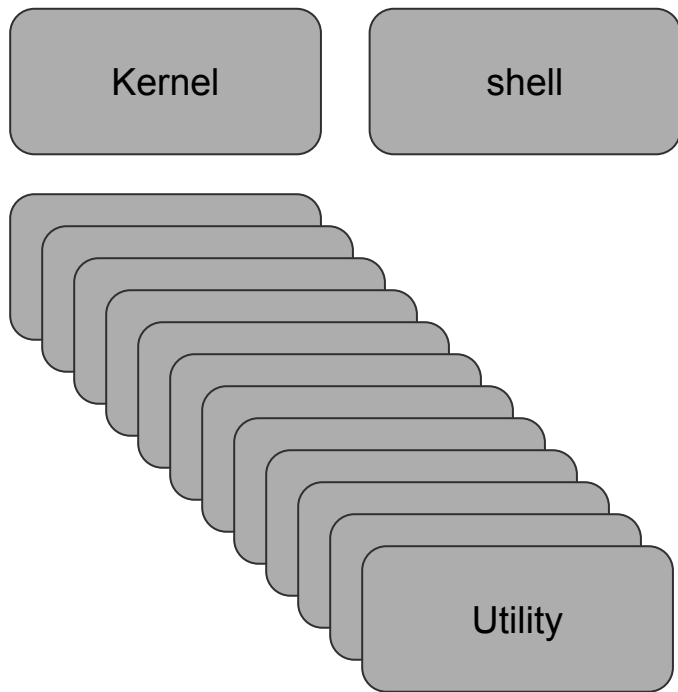
Linux에 대하여



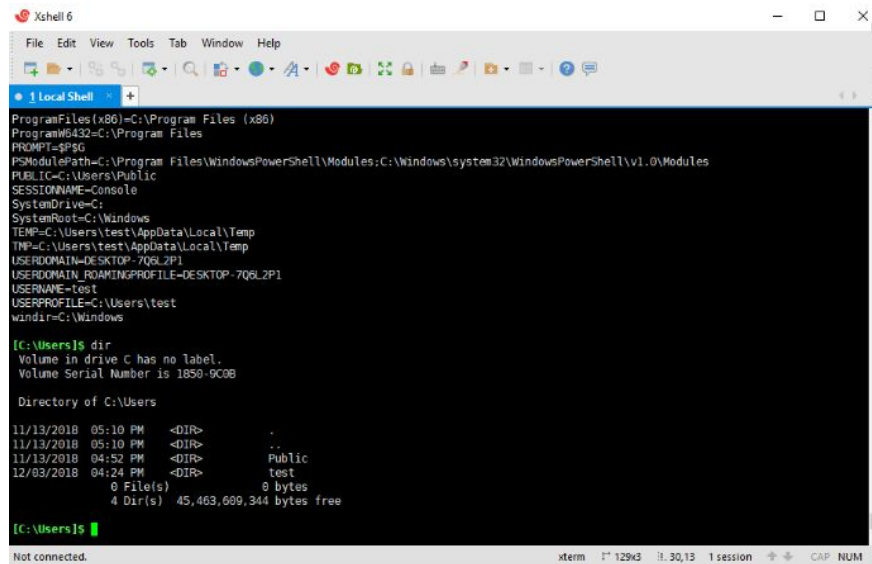
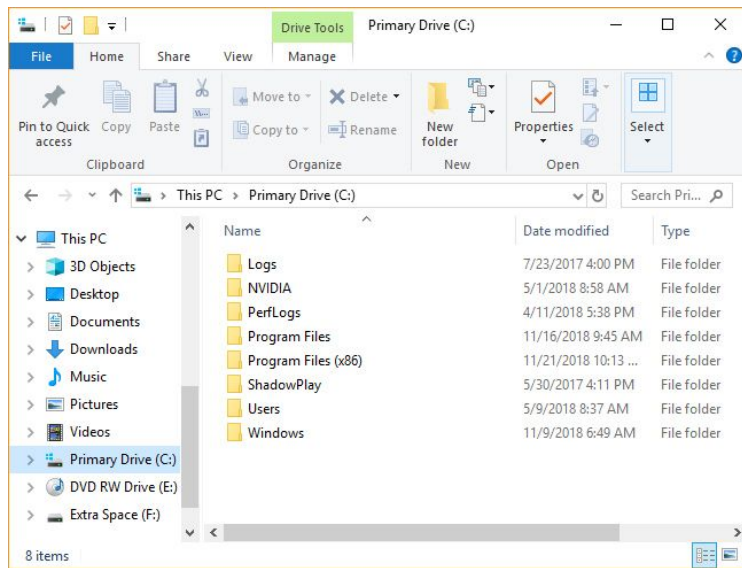
Multi-User
Multi-Tasking
Multi-Thread
Network Operating System

작성 언어: C

Linux에 대하여



둘다 결국엔 Interface

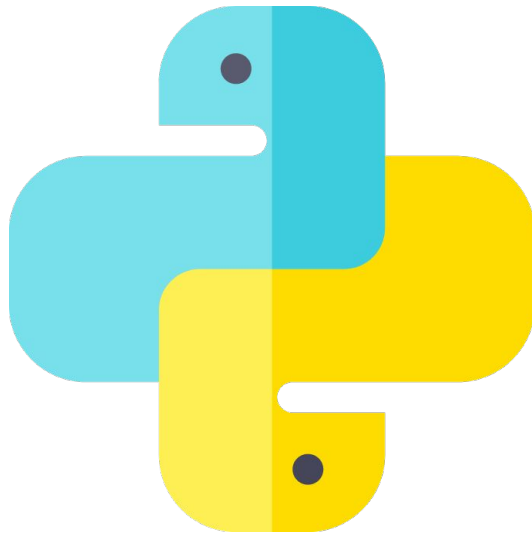


API

Application Programming Interface

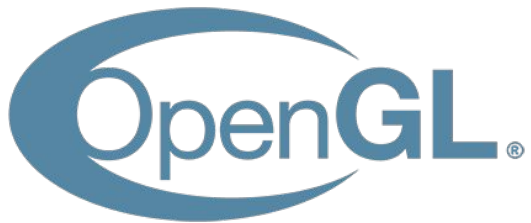
쉽게 말해

프로그램을 만들때 사용하는 인터페이스



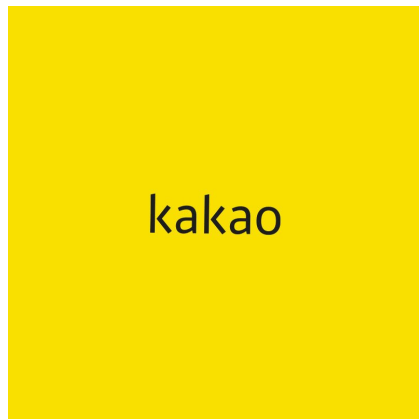
쉽게 말해

프로그램을 만들때 사용하는 인터페이스



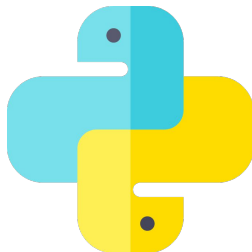
쉽게 말해

프로그램을 만들때 사용하는 인터페이스

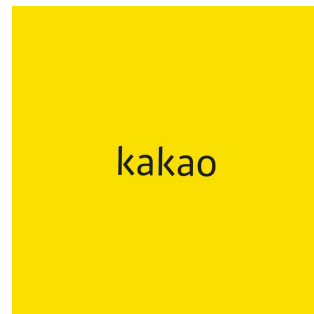


API의 구분?

Local



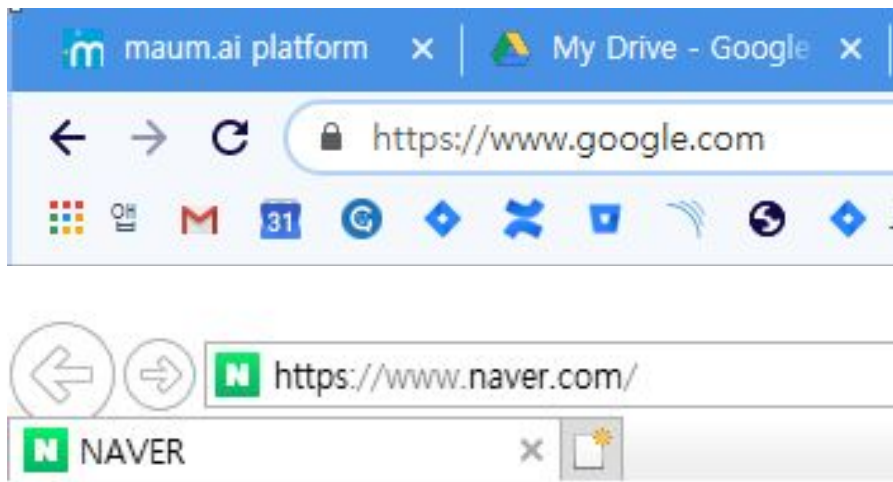
Remote



업무중 이야기하게 되는 API 중 절대 다수가
http를 이용한 remote API

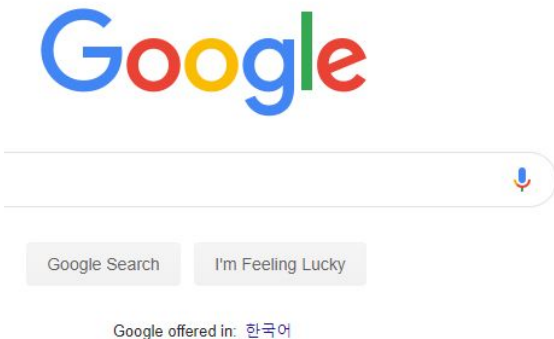
HyperText Transfer Protocol

WWW 상에서 정보를 주고받는 protocol(통신 규약).



HyperText Markup Language

웹 브라우저에서 전시되기 위해 정의된 Markup-Language



```
Elements Console Sources Network Performance Memory A
<!DOCTYPE html>
<html itemscope itemtype="http://schema.org/WebPage" lang="en-KR">
  <head>
    <meta charset="UTF-8">
    <meta content="origin" name="referrer">
    <meta content="/images/branding/googleg/1x/google_standard_color_128dp.png" itemprop="image">
    <meta content="origin" name="referrer">
    <title>Google</title>
    <script src="https://apis.google.com/_/scs/abc-static/_/js/k=gapi.gapi.en.ZR5Mg_d=1/ed=1/am=AAV/rs=AHpOoo-4737FsIV55fJ3ya7-4n9QA-0-og/cb=gapi.loaded_0" nonce="t8Ydoao3jL25WBY50DntUg==" async"></script>
    <script nonce="t8Ydoao3jL25WBY50DntUg=="></script>
    <style data-impl="1596460634641"></style>
    <script async type="text/javascript" charset="UTF-8" src="https://www.gstatic.com/gg/_/js/k=gg.og2.en_US.m4uQAdf8CdQ.O/rte=j/m=def,aswid/exm=in,fot/d=1/ed=1/rs=AA2YrTvRm2jx70Xtst0nk0vV2L12MswTtw" nonce="t8Ydoao3jL25WBY50DntUg=="></script>
    <link rel="stylesheet" type="text/css" href="https://www.gstatic.com/gg/_/ss/k=gg.og2.-1pdu7s7shluws.L.H.O/m=lg/excm=in,fot/d=1/ed=1/cte=gms/rs=AA2YrTtdyEK67rF0ryo6JR8sV1HEUOnC-g">
    <script async type="text/javascript" charset="UTF-8" src="https://www.gstatic.com/gg/_/js/k=gg.og2.en_US.m4uQAdf8CdQ.O/rte=j/_at/exm=in,fot,def,aswid/d=1/ed=1/rs=AA2YrTvRm2jx70Xtst0nk0vV2L12MswTtw" nonce="t8Ydoao3jL25WBY50DntUg=="></script>
  </head>
  <body jsmodel=" TvHxbe" class="hp vasq big" id="gsr" jsaction="tbSCpf: .CLIENT"> == $0
    <style data-jiis="cc" id="gstyle" data-impl="1596460634641"></style>
    <style data-impl="1596460634641"></style>
```

HTTP의 구성 요소

Http Request Message

Method - 보내는 요청으로 무엇을 할것인지

Header - 요청에 관한 추가 정보

Body - 요청 데이터(라고 생각하면 됨)

HTTP의 구성 요소

Http Response Message

Status - 요청 처리 상태에 대한 정보

Header - 응답에 대한 추가적 정보

Body - 응답 데이터(라고 생각하면 됨)

HTTP Methods / Status Codes



| Request Method | Status Code |
|----------------|-------------|
| GET | 200 |
| HEAD | 201 |
| POST | 204 |
| PUT | 301 |
| DELETE | 400 |
| CONNECT | 401 |
| OPTIONS | 403 |
| TRACE | 404 |
| PATCH | 500 |

HTTP Headers



Headers

Accept-Charset

Content-Encoding

Content-Type

Content-Length

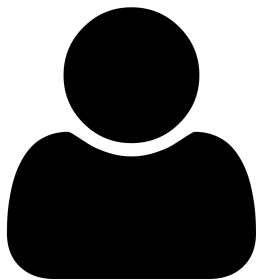
Transfer-Encoding

알면 좋지만 모르면 찾아보면 되는 것!

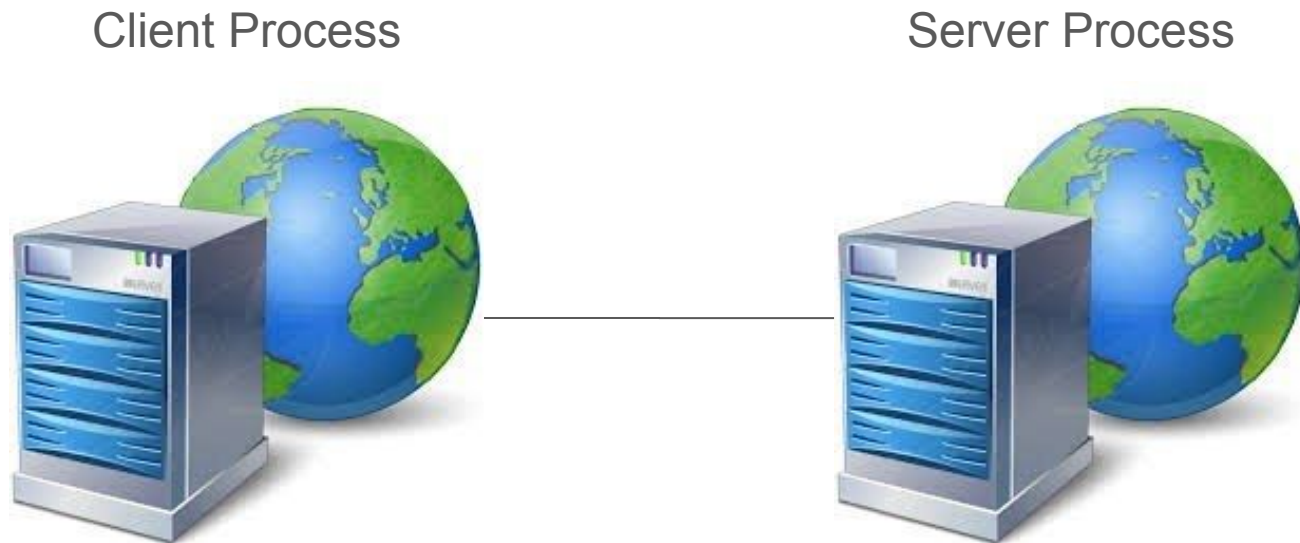
웹 서버와 웹 클라이언트



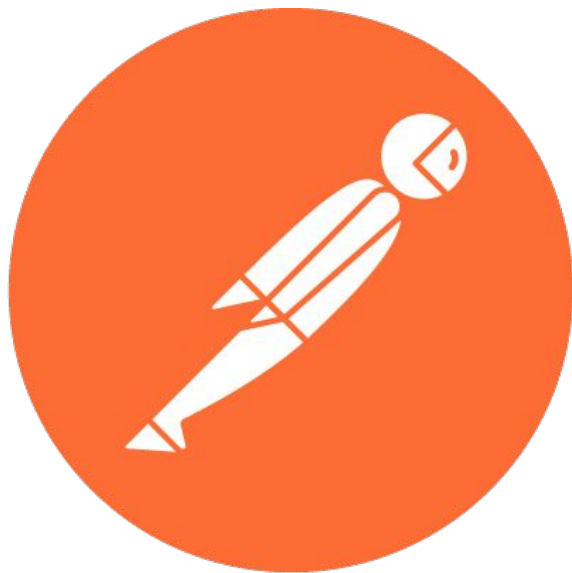
웹 서버와 웹 클라이언트



웹 서버와 웹 클라이언트



Postman(실습)



POSTMAN

REST API란?

REpresentational State Transfer

- 웹 서비스를 만드는데 몇몇 제약사항들을 정의한 소프트웨어 구조의 일종.
- 높은 성능, 안정성, 확장성을 위한 제약 사항들.

Client-Server 구조

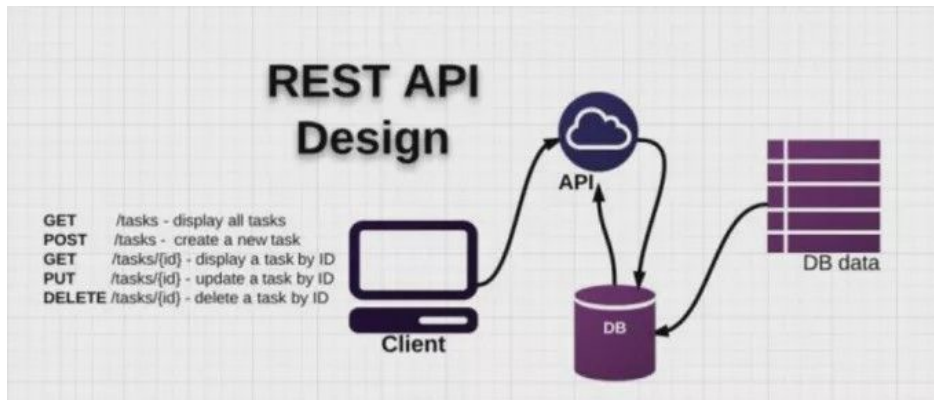
Statelessness

Cacheability

Layered System

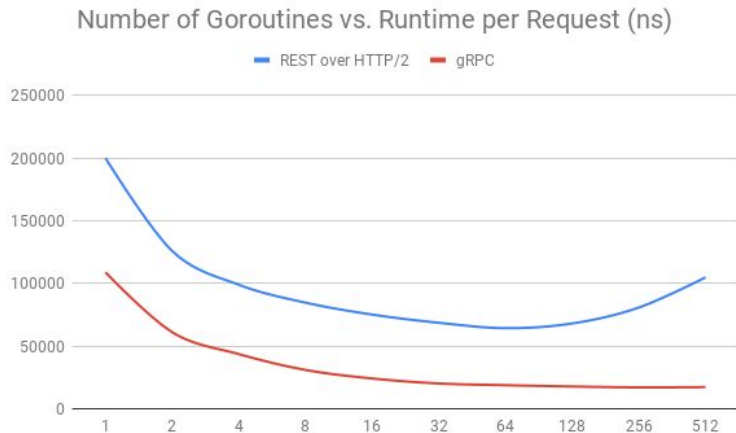
Code on demand

Uniform Interface



gRPC란?

구글에서 개발한 오픈소스 **remote procedure call** (원격 프로시저 콜).
Protocol Buffer를 IDL로 사용하며, HTTP/2를 이용해 통신한다.



Firestore란?

모바일 / 앱 애플리케이션을 개발하기 위한 구글의 BaaS(Backend as a Service).



Build better apps



Auth



Hosting



Cloud
Functions



ML Kit



Cloud
Firestore



Realtime
Database



Cloud
Storage



Improve app quality



Crashlytics



Performance
Monitoring



Test Lab



Grow your app



Analytics



Remote
Config



Predictions



A/B Testing



Cloud
Messaging



Dynamic
Links



In-app
Messaging