Server Congfiguration and api

Table of contents

O1 Server API
Pengenalan

PostmanMetode Penggunaan API

Python API
Flask python

Ngrok Tunnel
Tunneling API

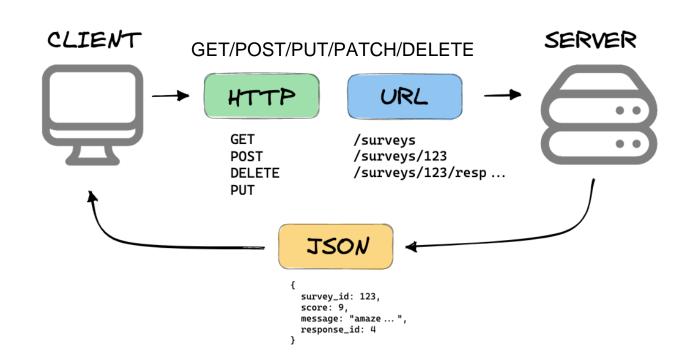


Goal

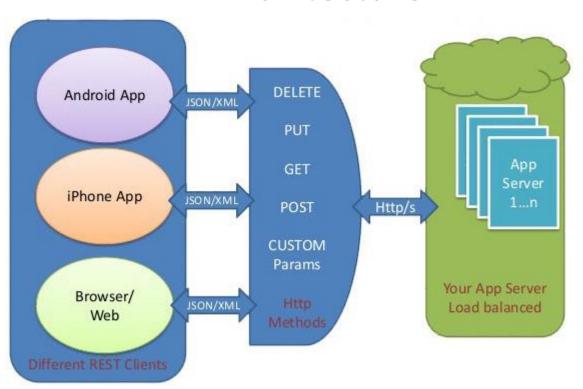
- Memahami system kerja API
- Menggunakan API service
- Membuat API python (flask + ngrok)



Application Programming Interface (API)



API Architecture



Types of api

Public API Private API Partner API



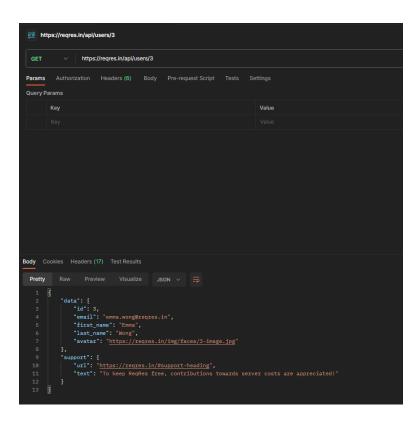
APA itu POstman

https://www.postman.com/

Postman is an API platform for building and using APIs. Postman simplifies each step of the API lifecycle and streamlines collaboration so you can create better APIs—faster.



Test with real API



```
https://regres.in/
Request
GET https://regres.in/api/users/3
POST https://regres.in/api/users
    "name": "morpheus",
    "job": "leader"
PUT https://regres.in/api/users/2
    "name": "morpheus",
    "job": "zion resident"
```

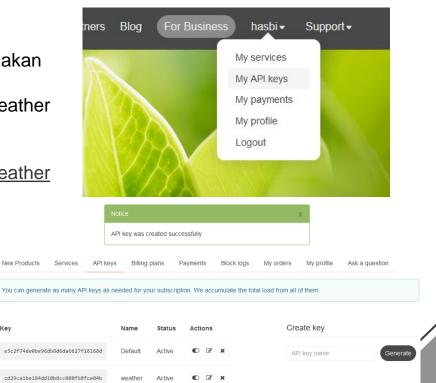
Openweather

New Products

https://openweathermap.org/api Create user pilih API keys yang akan digunakan

https://api.openweathermap.org/data/2.5/weather ?lat=44.34&lon=10.99&appid={API key}

https://api.openweathermap.org/data/2.5/weather ?lat=-6.97&lon=107.65 Gunakan API keys auth



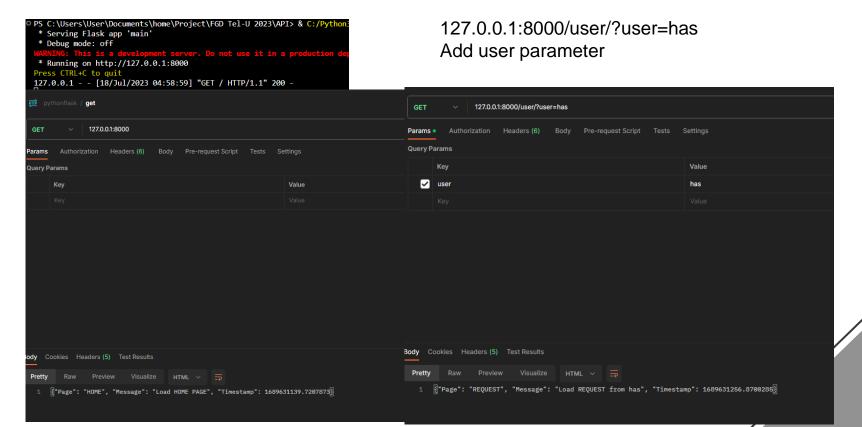
API with python

Flask

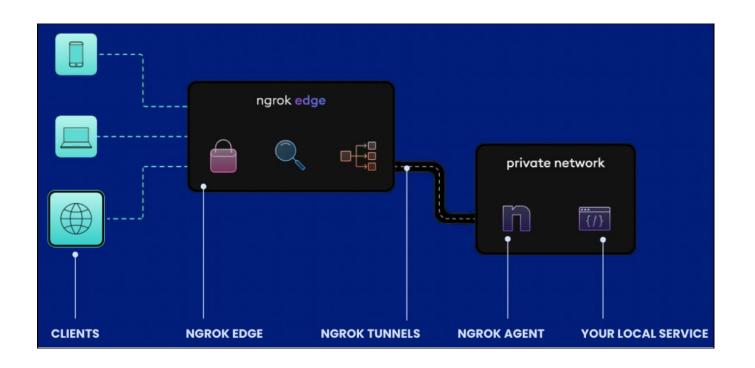
Flask

Pip install flask
Pip install pyngrok

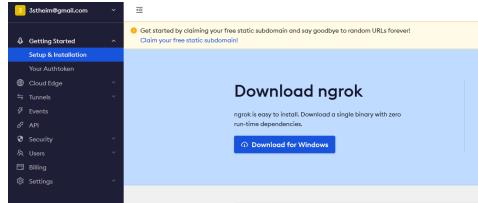
Running flask in port 8000



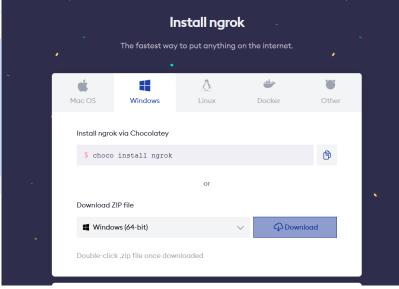
NGROK



NGROK Tunnel



Create user dan setup authtoken



Auth via command line

PS C:\Users\User\Documents\home\Project\FGD Tel-U 2023\API> .\ngrok.exe config add-authtoken 2SiZtxydSJckb6ksQ3w6yJhRtoY_79P8QWwYALdKQmfAtTe6E Authtoken saved to configuration file: C:\User\AppData\Local/ngrok/ngrok.yml

PS C:\Users\User\Documents\home\Project\FGD Tel-U 2023\API>

```
ADD Auth Token

ngrok config add-authtoken <token>

Start a Tunnel

ngrok http 80
```

```
Try the ngrok Kubernetes Ingress Controller: https://ngrok.com/s/k8s-ingress
Session Status
Account
                              3stheim@gmail.com (Plan: Free)
                              3.3.1
Version
                              Asia Pacific (ap)
Region
Latency
Web Interface
                              http://127.0.0.1:4040
Forwarding
                              https://4ac6-103-129-95-197.ngrok-free.app -> http://localhost:8000
Connections
                              ttl
                                                                      p90
                                              0.00
                                                              0.00
                                                                     0.00
```

Open forwarding link in other device https://4ac6-103-129-95-197.ngrok-free.app

Thanks

Do you have any question?

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