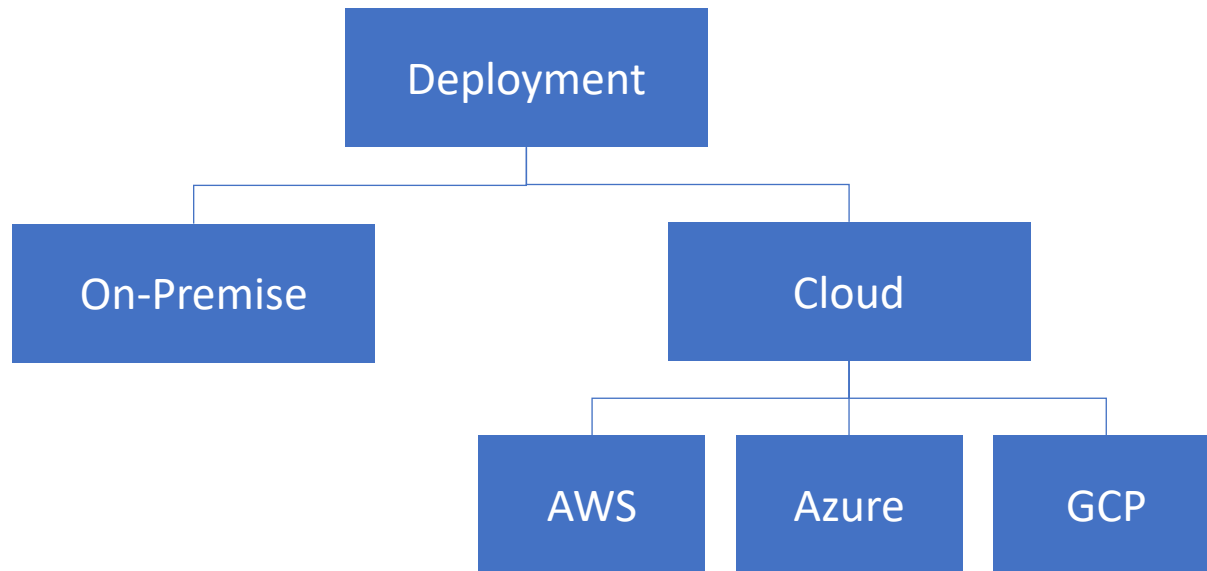


Model Deployment

Model Deployment

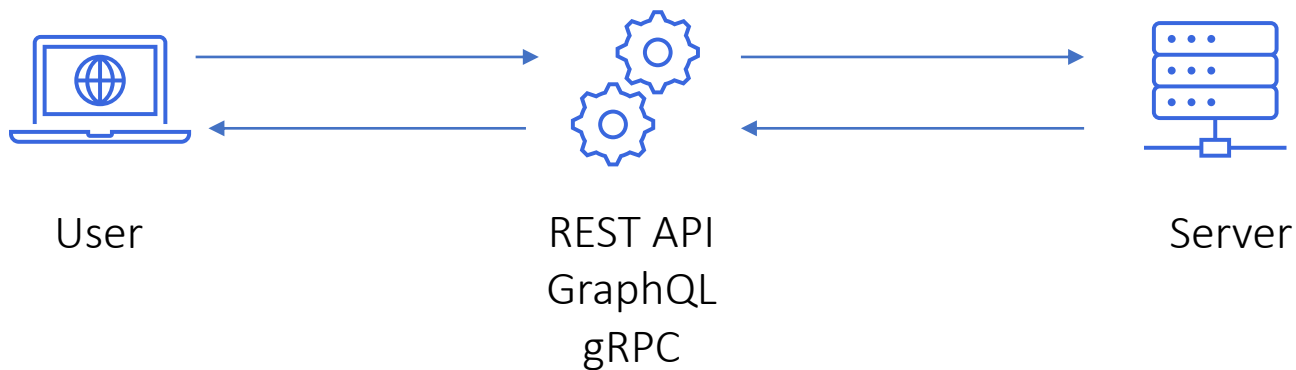
Where to deploy?



Model Deployment

How to deploy?

- common API standard: **REST API**...
Representational **S**tate **T**ransfer, **A**pplication **P**rogramming **I**nterface
- webservices communicate with user requests via API
- API defines set of rules for applications to communicate with each other



Model Deployment

URL Anatomy

RESTful endpoint

`http://awesomeweathersite.com:80/weather/forecast/{date}`

Protocol

domain name

port

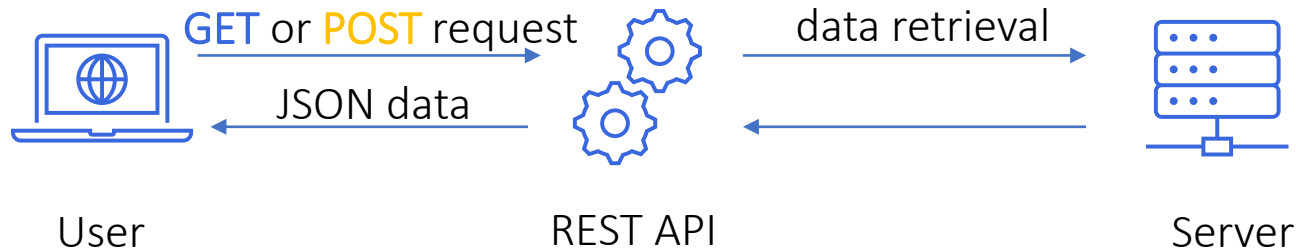
application

resource

parameter

Model Deployment

HTTP-Methods



retrieve data



add data



delete data



update data

Model Deployment

Flask

- web framework for Python
- lightweight, flexible and simple to use
- large community, good documentation

```
from flask import Flask

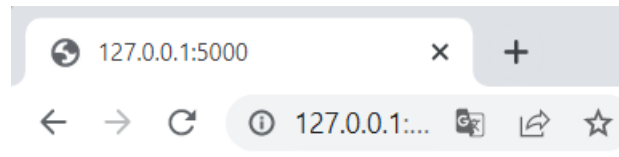
app = Flask(__name__)

@app.route('/')
def home():
    return 'Hello, world!'

if __name__ == '__main__':
    app.run()
```

Python code

GET-Request



Hello, world

Browser result

Model Deployment

API Testing

- test APIs with Postman
- user friendly UI

```
from flask import Flask

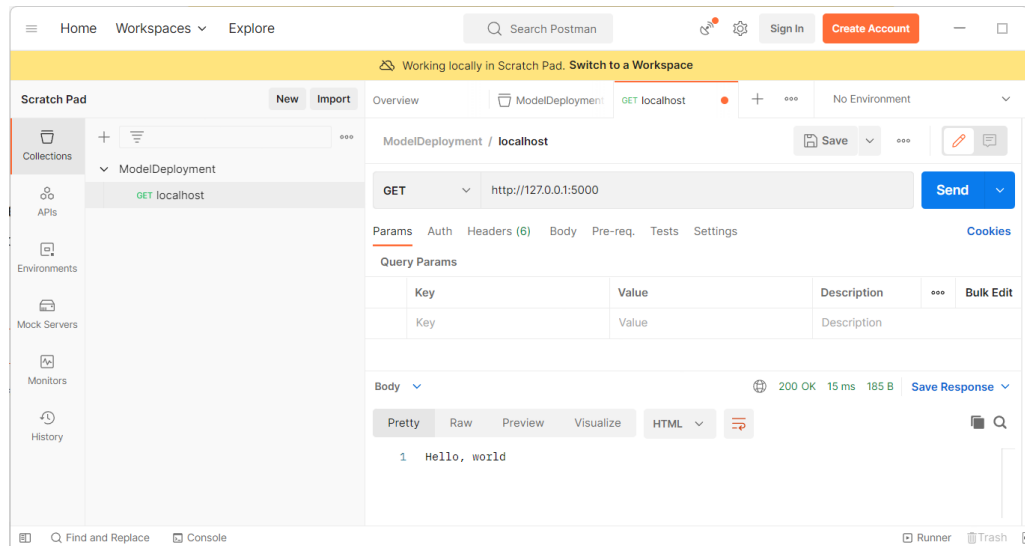
app = Flask(__name__)

@app.route('/')
def home():
    return 'Hello, world!'

if __name__ == '__main__':
    app.run()
```

Python code

GET-Request



Postman result

Model Deployment

Our toolbox

Development



Flask

Python package

Testing



Postman



<https://www.postman.com/>