

REST API

GET <http://domain.com/customers>

GET <http://domain.com/api/customers>

GET <http://domain.com/api/orders>

GET <http://domain.com/api/customers/10>

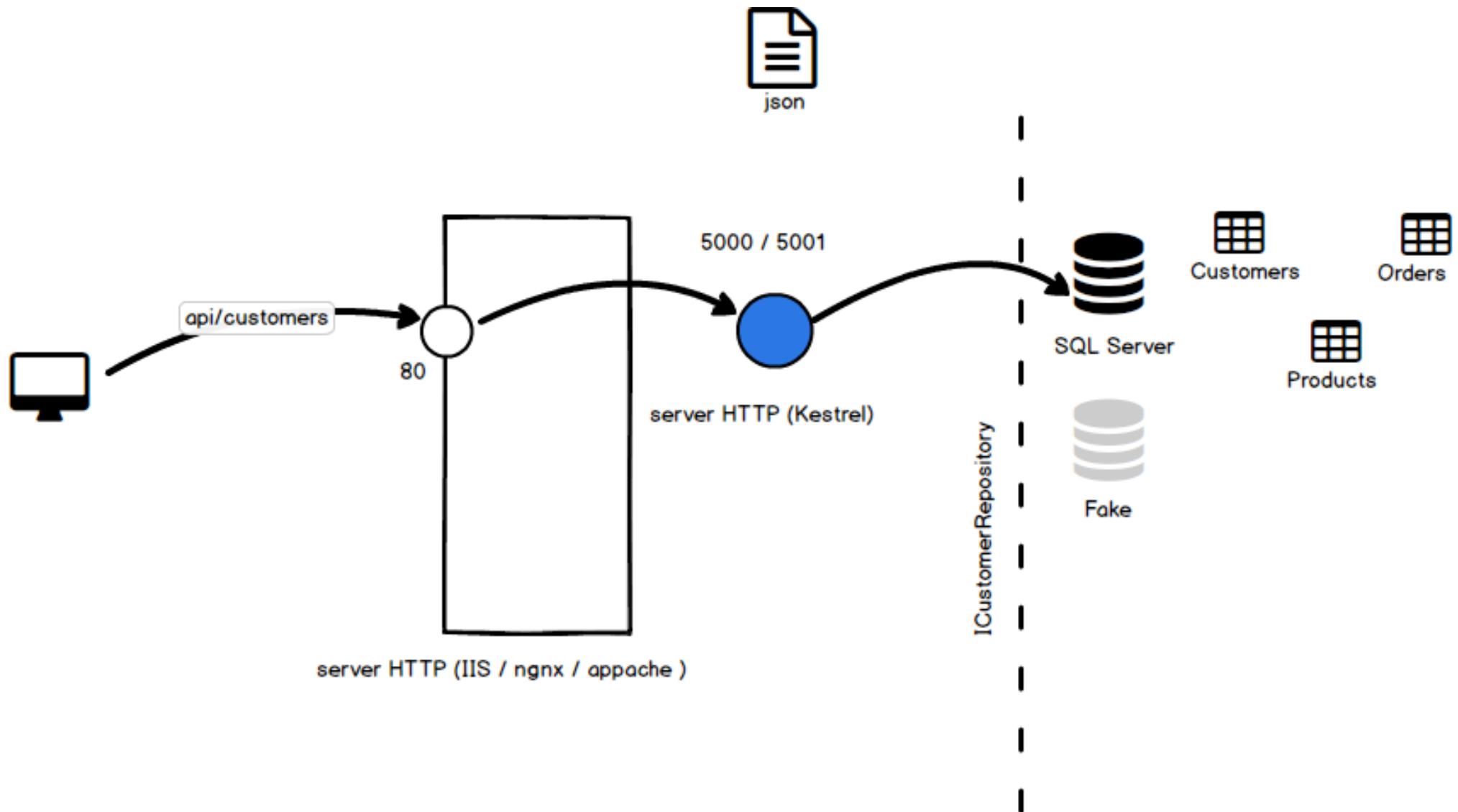
GET <http://domain.com/api/customers?City=Warsaw&Street=Dworcowa>

GET <http://domain.com/api/customers/10/orders>

OData

GET <http://domain.com/api/customers?City=Warsaw&Street=Dworcowa&orderby=City>

~~GET <http://domain.com/api/customers?action=Calculate>~~



GET `http://localhost:5000/api/ping`

GET `http://localhost:5000/api/customers`

endpoints (punkty końcowe)

Factory

T Create<T>() { ... }

Dependency Injection

Type	Value	Life
CustomersController	CustomersController	Singleton
Faker<Customer>	CustomerFaker	Singleton
IProductRepository	DbProductRepository	
DbConnection	SqlConnection	
ICustomerRepository	FakeCustomerRepository	

IServiceCollection

GET api/customers
GET api/customers/{id}
GET api/customers/{pesel}
GET api/customers?Gender=male&from=100

GET http://localhost:5000/api/customers

GET api/customers HTTP/1.1

metoda zasób protokół/wersja

Host: localhost

Accept: application/json

POST api/customers HTTP/1.1

metoda zasób protokół/wersja

Host: localhost

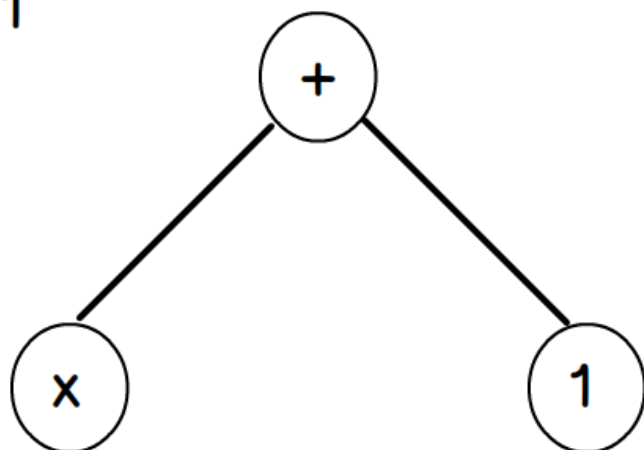
Accept: application/json

Content-Type: application/xml

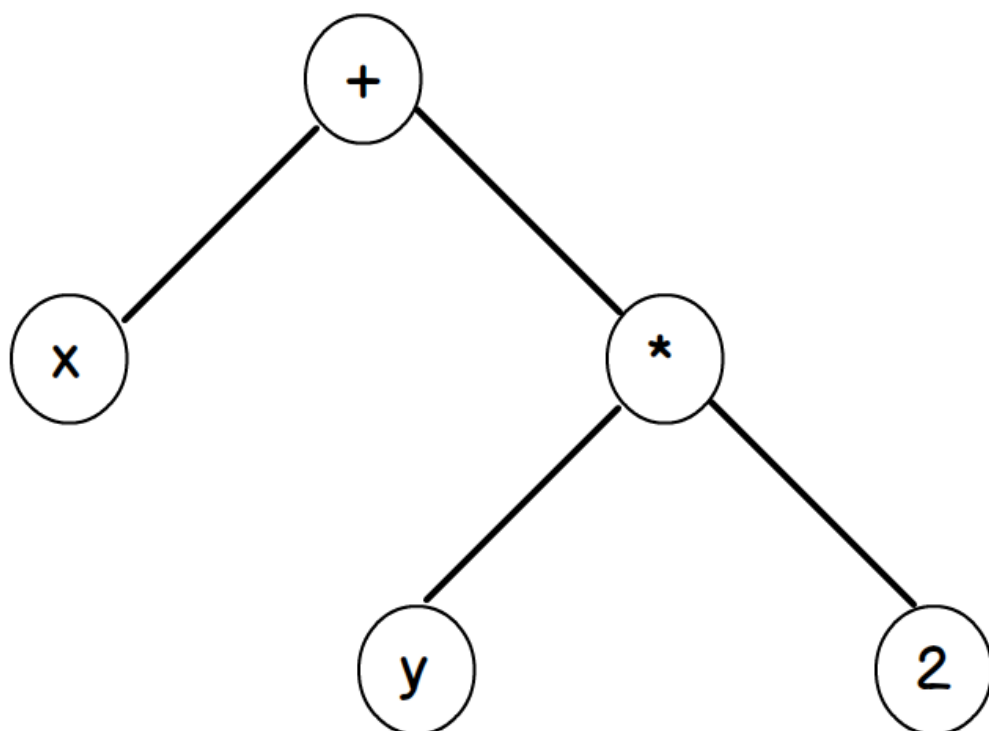
<xml> ... </xml>

		200 - 299	300 - 399	400 - 499	500 - 599
GET	pobierz zasób	200 OK		404 Not Found	
POST	utwórz zasób	201 Created + header: Location: ... + body: object		400 BadRequest	
		202 Accepted			
PUT	zamień zasób	204 NoContent			
PATCH	zmień częściowo zasób	204 NoContent			
DELETE	usuń zasób	200 OK			
HEAD	sprawdź czy istnieje zasób	200 OK		404 Not Found	
OPTIONS	jakie operacje są dostępne na tym zasobie?	200 OK + body: GET,POST			

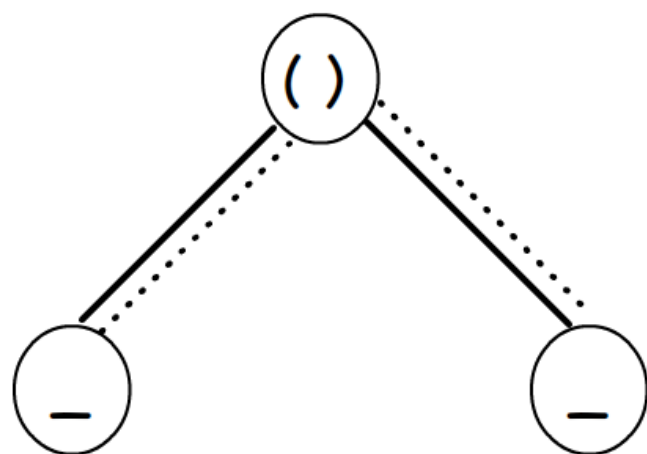
$x + 1$



$x + y * 2$



operator



lewy operand

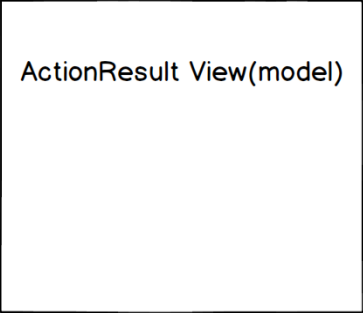
prawy operand

$x++$

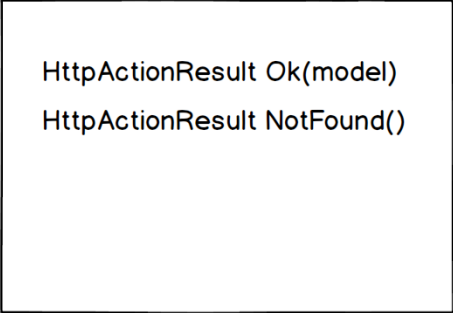
$++x$

$!x$

$x!$



Controller

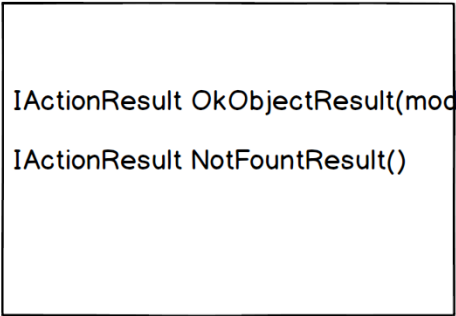


ApiController

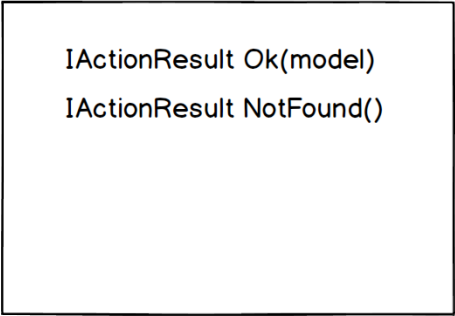
ASP.NET MVC (.NET Framework)



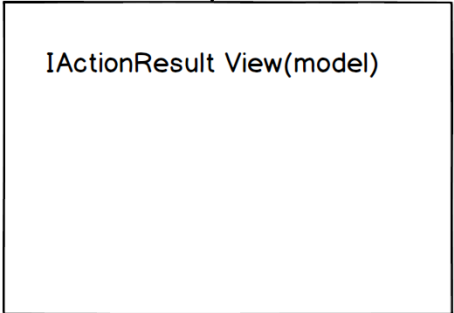
ASP.NET MVC Core (.NET Core)



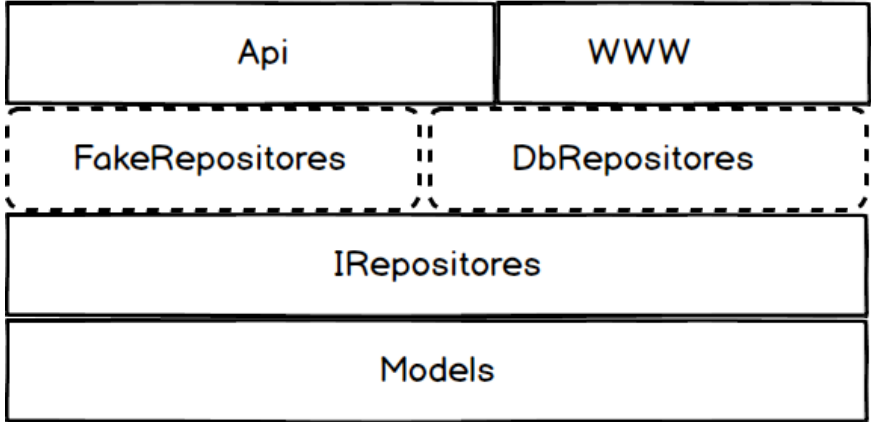
POCO



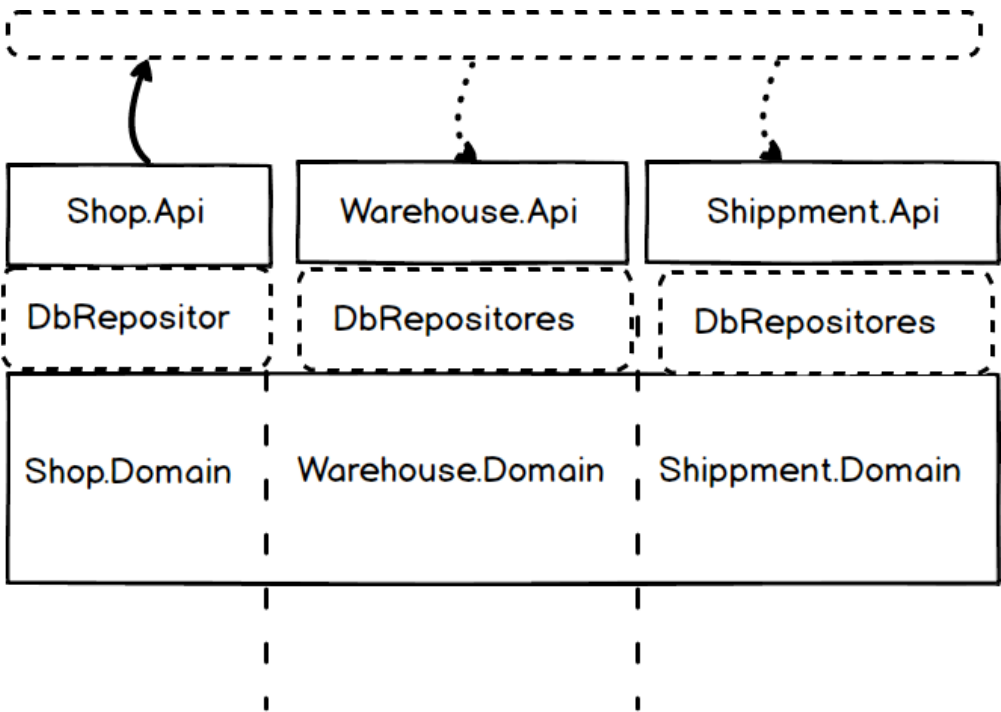
ControllerBase



Controller



Monolit (leniwe)



DDD (Domain Driven Development)

GET api/products

POST api/products

PUT api/products

PATCH api/products

DELETE api/products

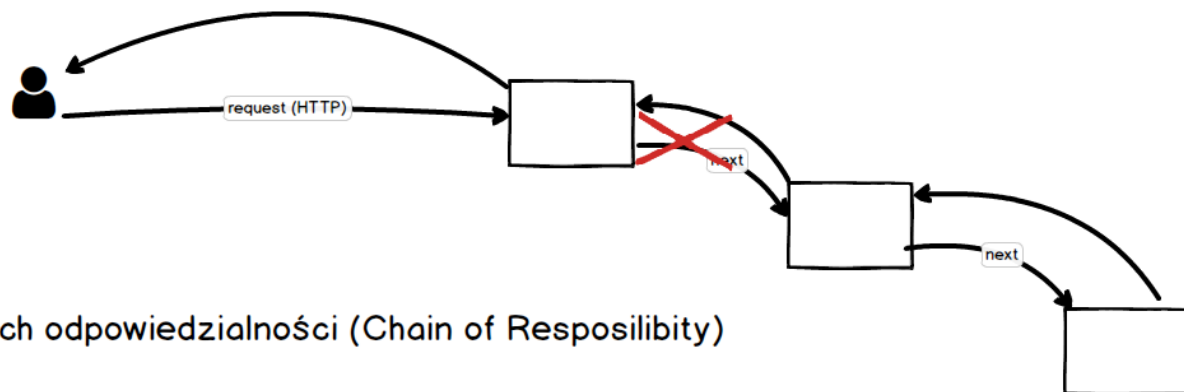
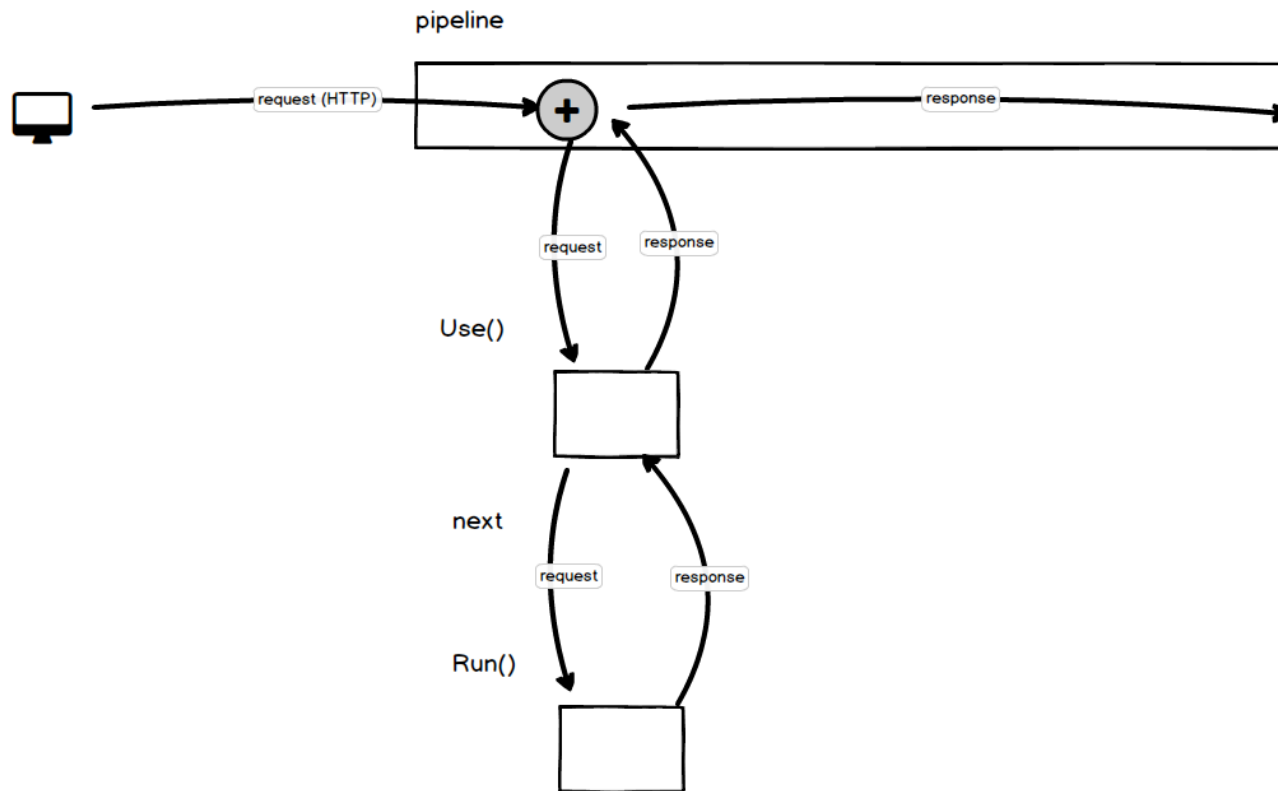
Product
Name
Color
UnitPrice
Size { S, M, L, XL }

GET api/customers/10/products

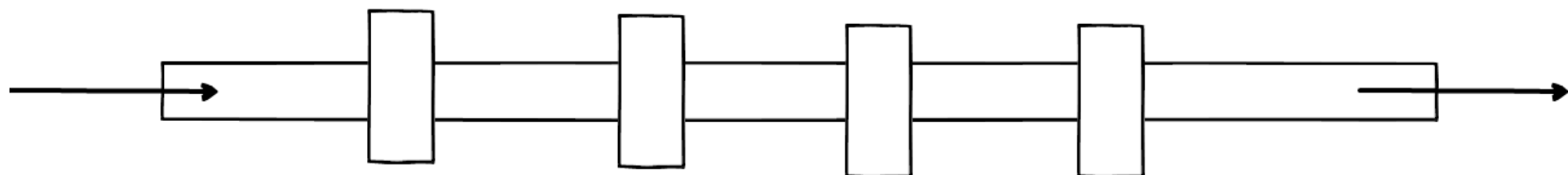
GET api/products/10/customers

rezultat

GET api/customers/10/orders/2020/05

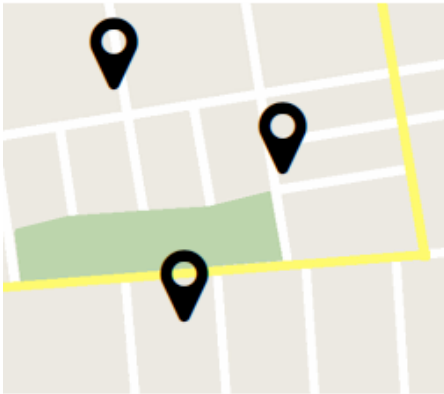


Łancuch odpowiedzialności (Chain of Responsibility)



url: api/customers?format=kml

Content-Type: kml

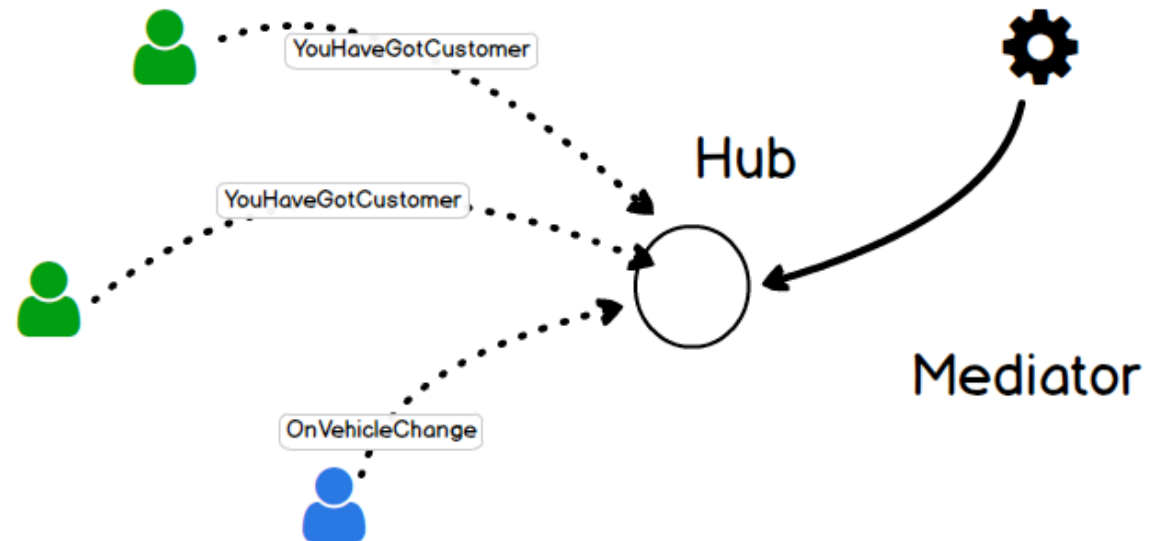
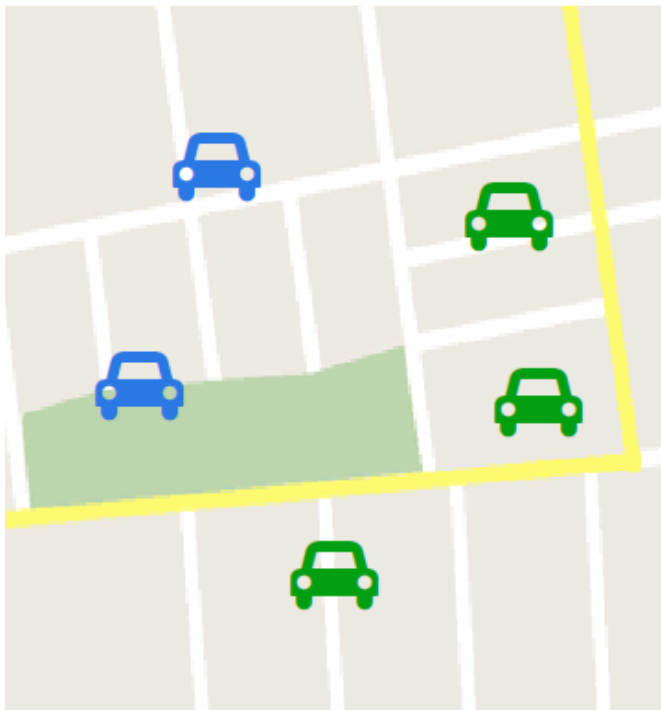


format: kml



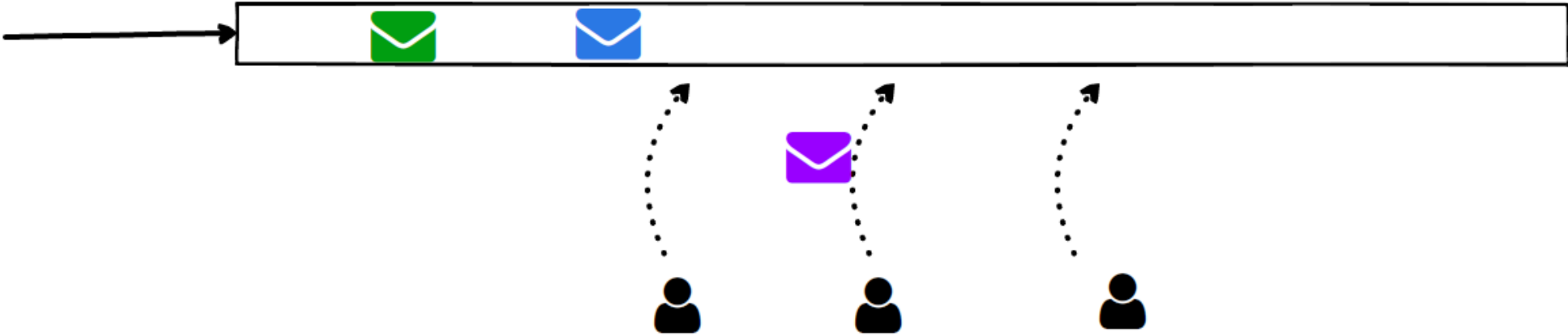
Customers

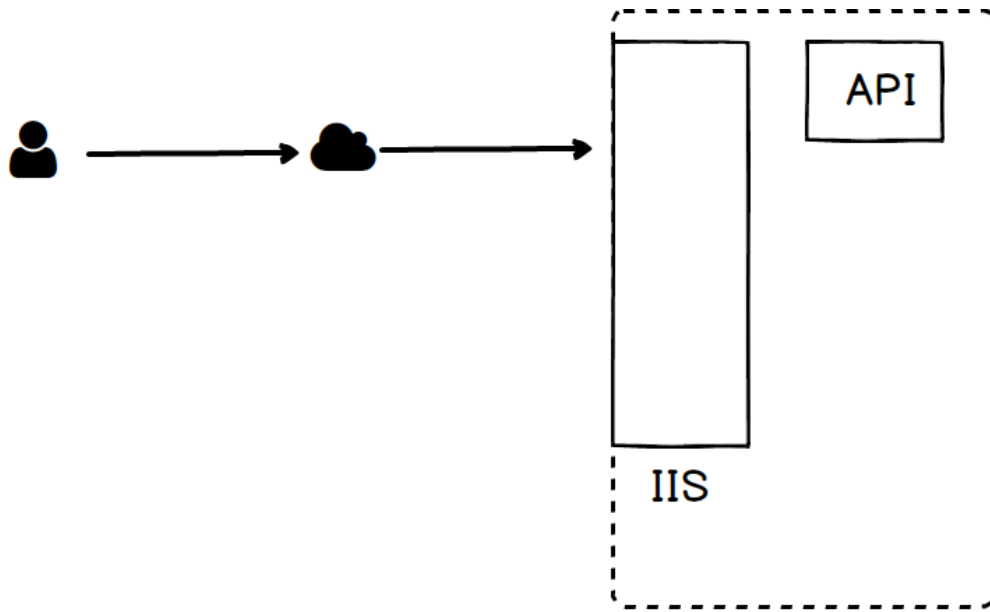
Signal-R



Publisher

Consument





1. Zakładamy folder C:\inetpub\wwwroot\my-api
2. Udostępnij folder z prawami do zapisu dla programisty
3. Publish
4. Uruchamiamy IIS Manager: cmd> inetmgr
5. Tworzymy pulę aplikacji (Pool) i wybieramy No Managed Code
6. Dodajemy aplikację i wybieramy pulę
7. W uprawnieniach przydziel grupę IIS_IUSRS

Internet Information Services (IIS) Manager

EC2AMAZ-SM04VQ3 > Application Pools

File View Help

Connections

- Start Page
- EC2AMAZ-SM04VQ3 (EC2AMAZ-SM04VQ3)
 - Application Pools
 - Sites
 - Default Web Site

Application Pools

This page lets you view and manage the list of application pools on the server. Application pools are associated with worker processes, contain one or more applications, and provide isolation among different applications.

Filter: [v] Go [v] Show All [v] Group by: No Grouping [v]

Name	Status	.NET CLR V...	Managed Pipel...	Identity	Applications
DefaultAppPool	Started	v4.0	Integrated	ApplicationPoolId...	1

Add Application Pool ? X

Name: [Net Core Pool]

.NET CLR version: [No Managed Code]

Managed pipeline mode: [Integrated]

☒ Start application pool immediately

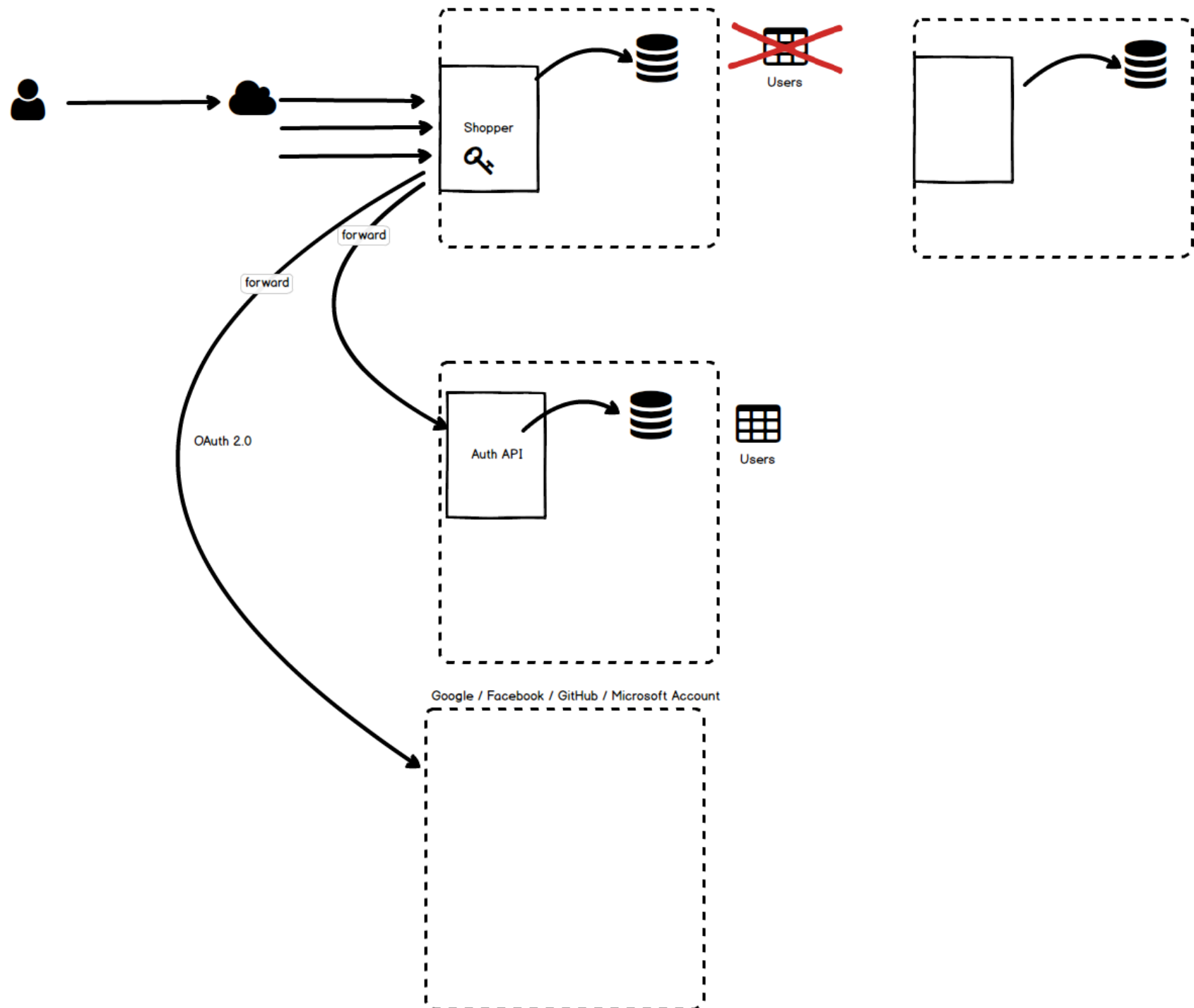
OK Cancel

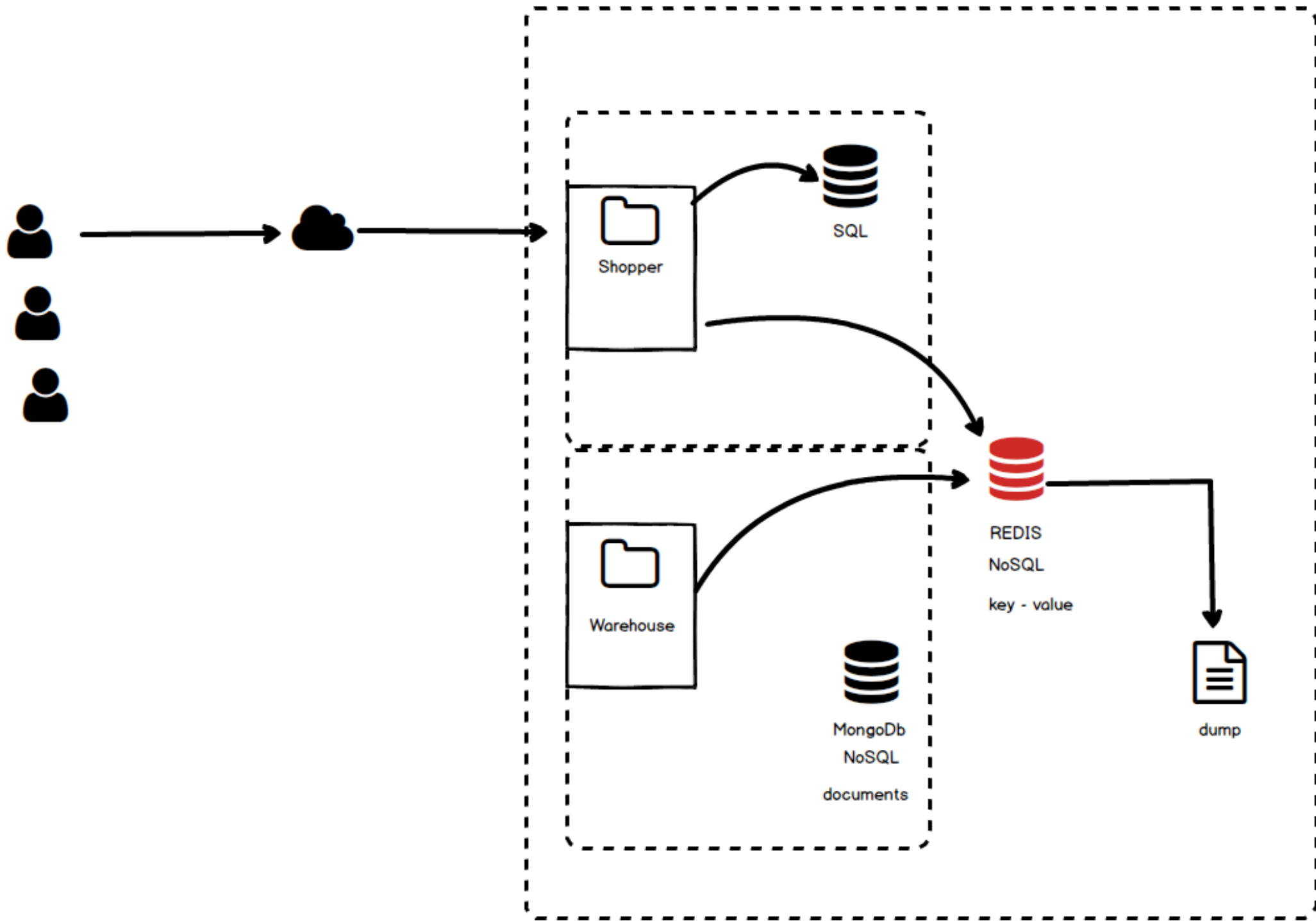
Basic Authentication (login + password)

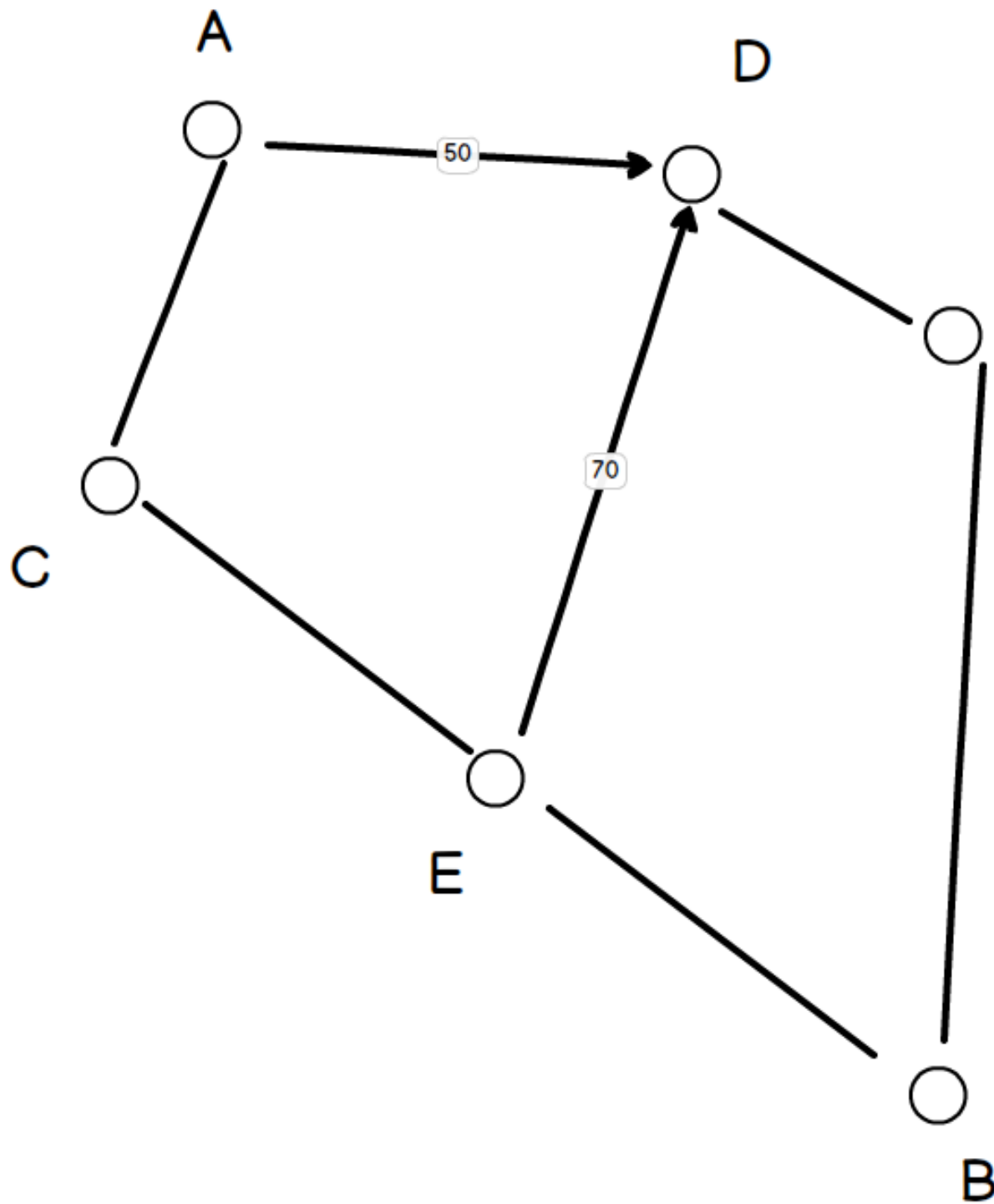
login + password

token: 5430ucbw98pu9u23wy9u432zs872

JWT (Json Web Tokens)





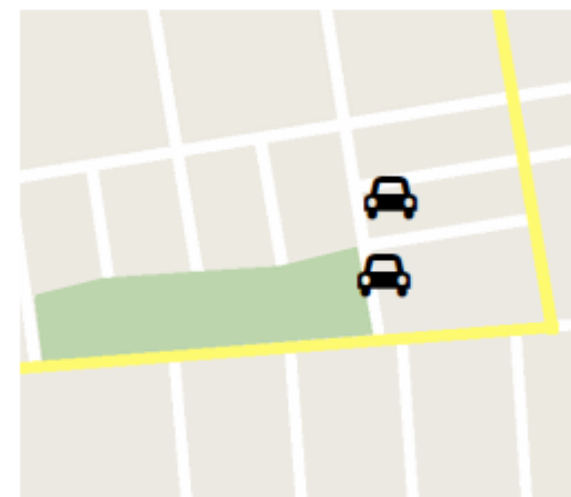


Neo4j

NoSQL

Cypher / Gremlin

Bazy danych grafowe





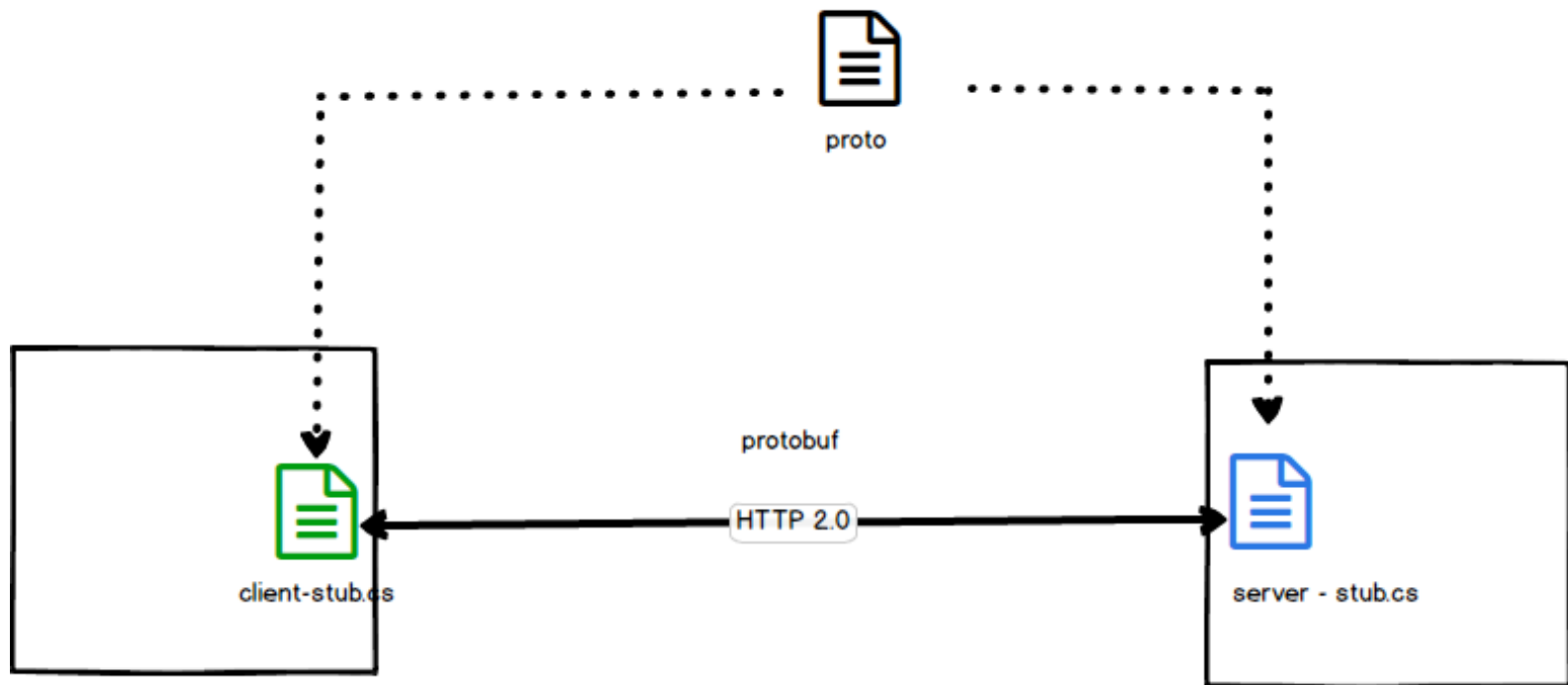
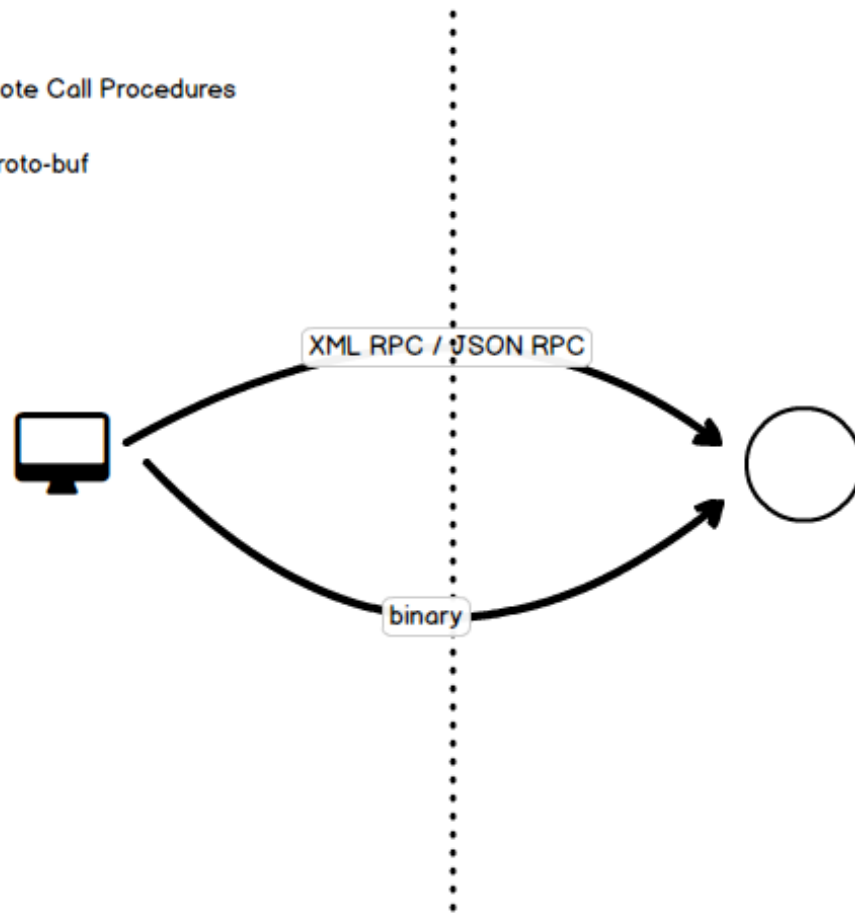
202 Accepted

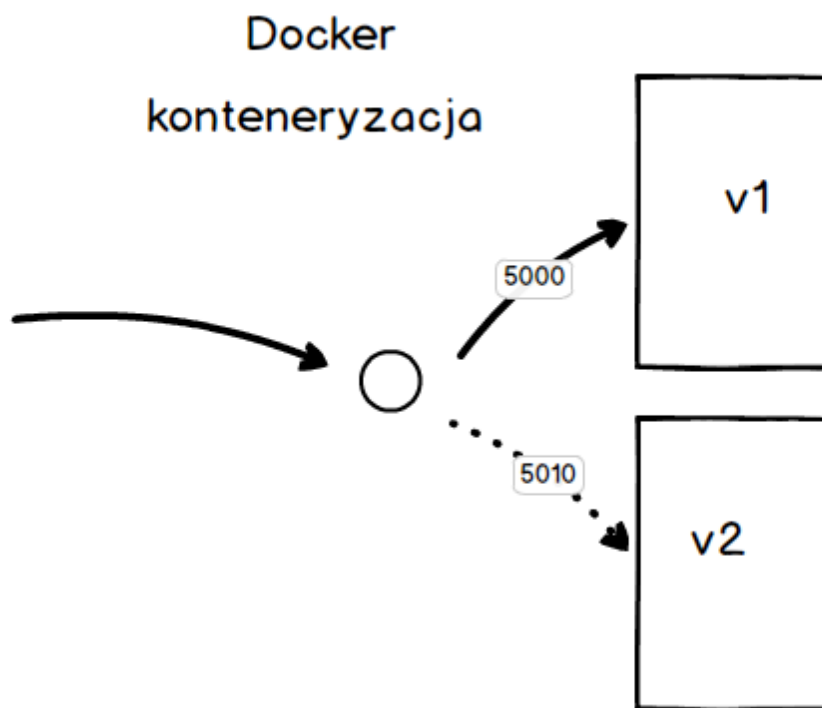
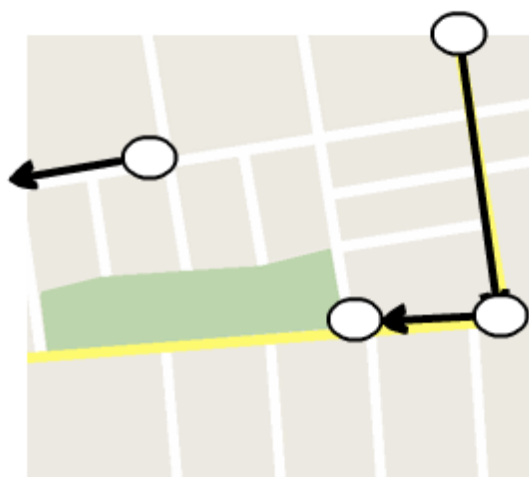
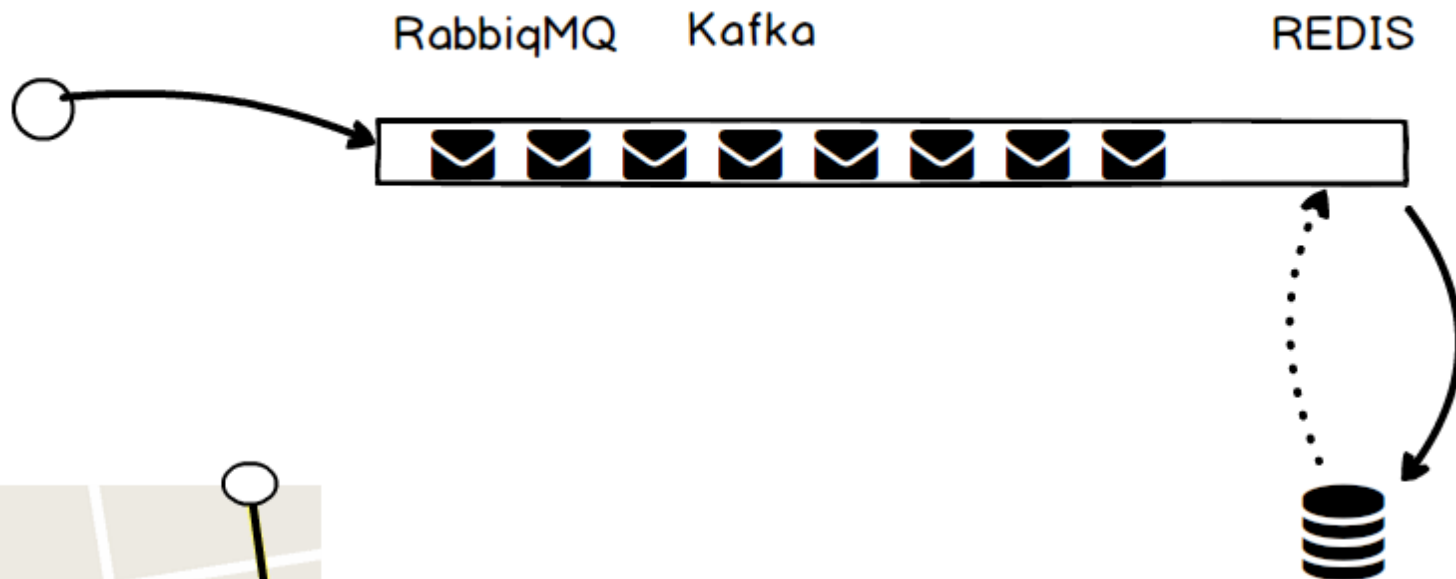
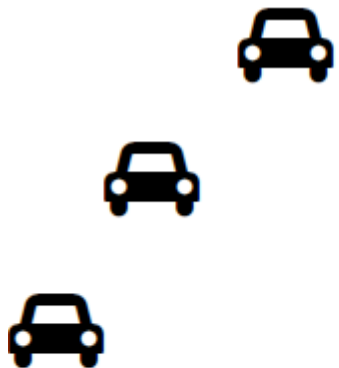
signalr

gRPC

gRPC Google Remote Call Procedures

binarny protokół proto-buf





GraphQL

POST <http://domain.com/graphql>

