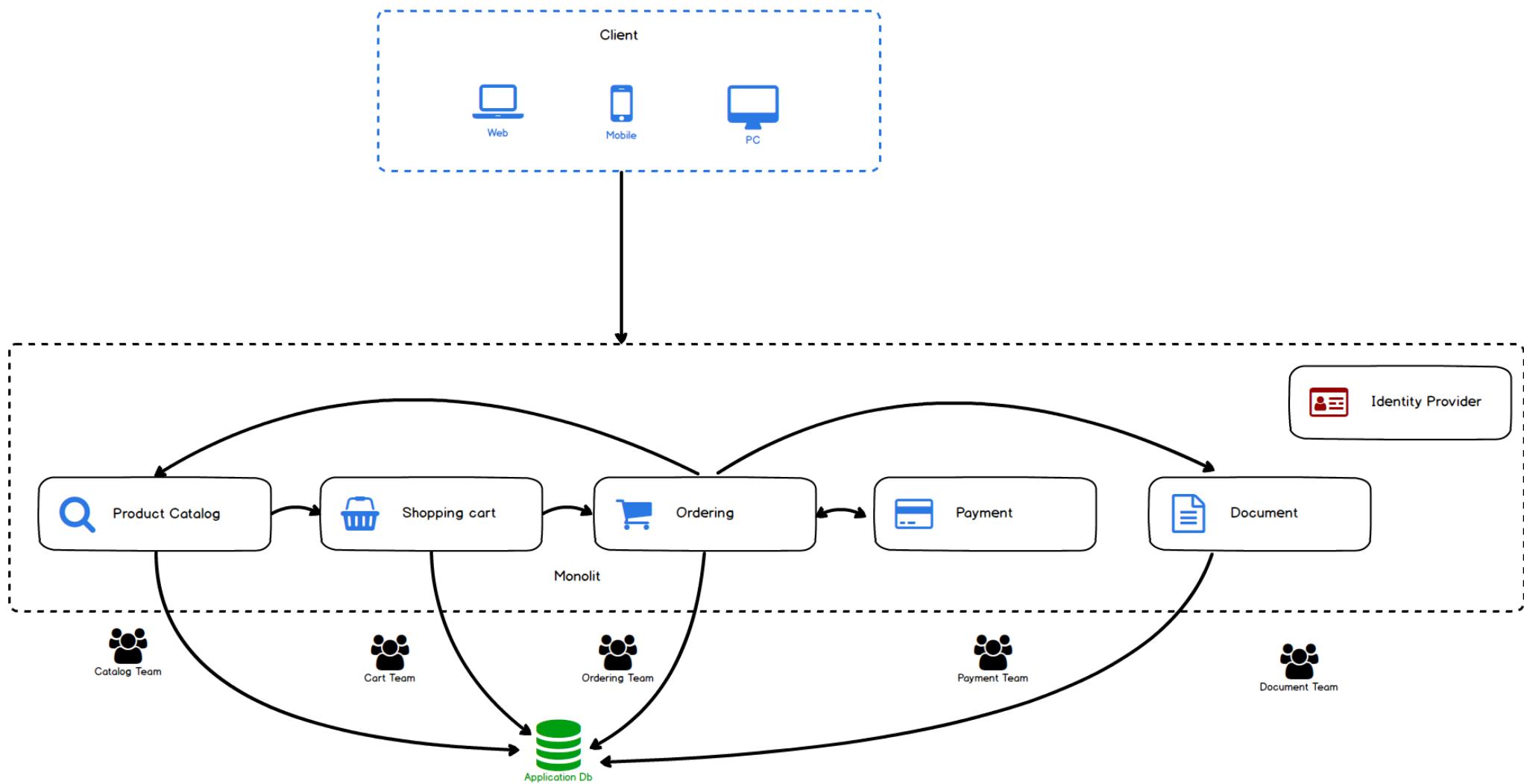


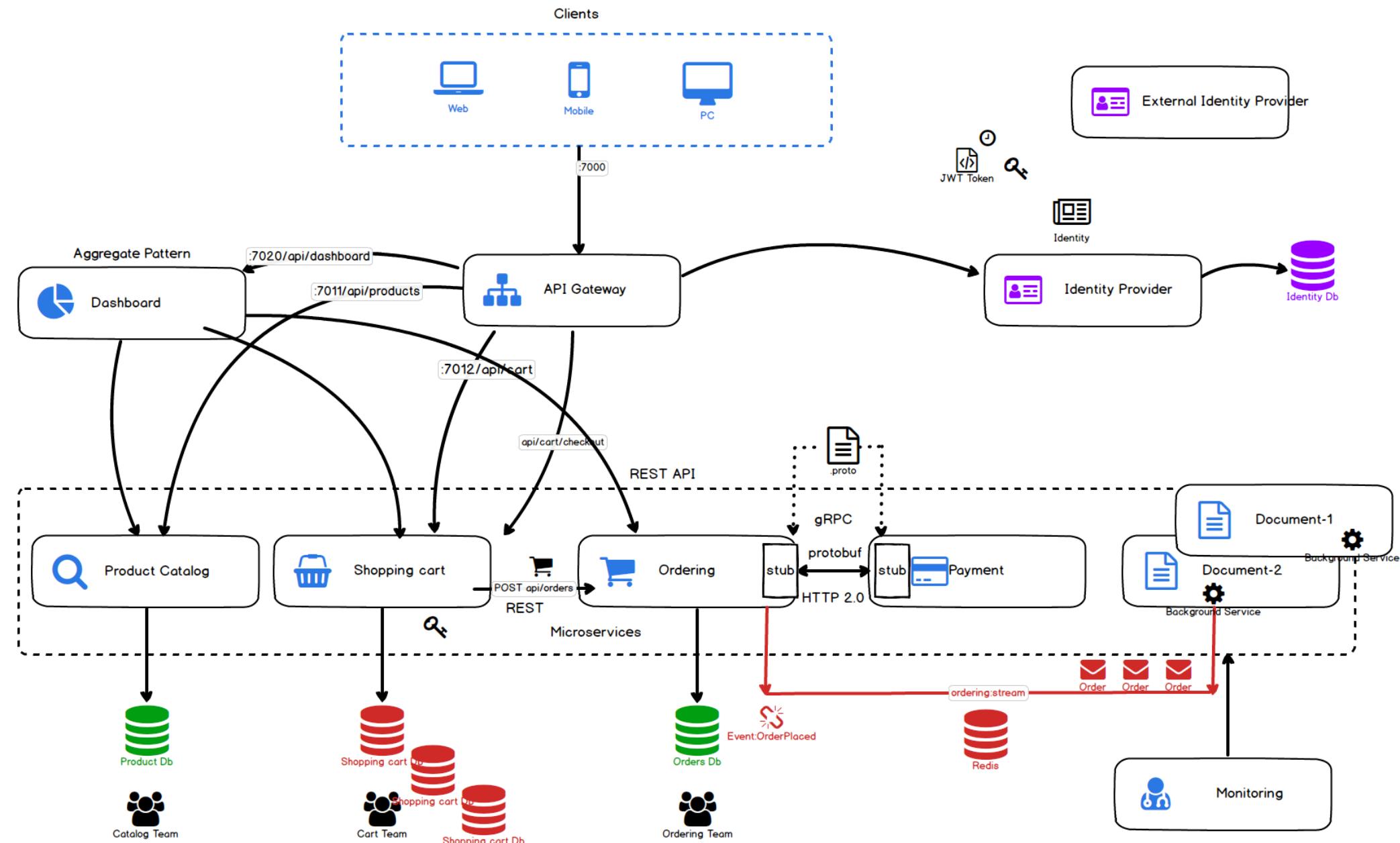


Fundamentals

Architektura monolitu



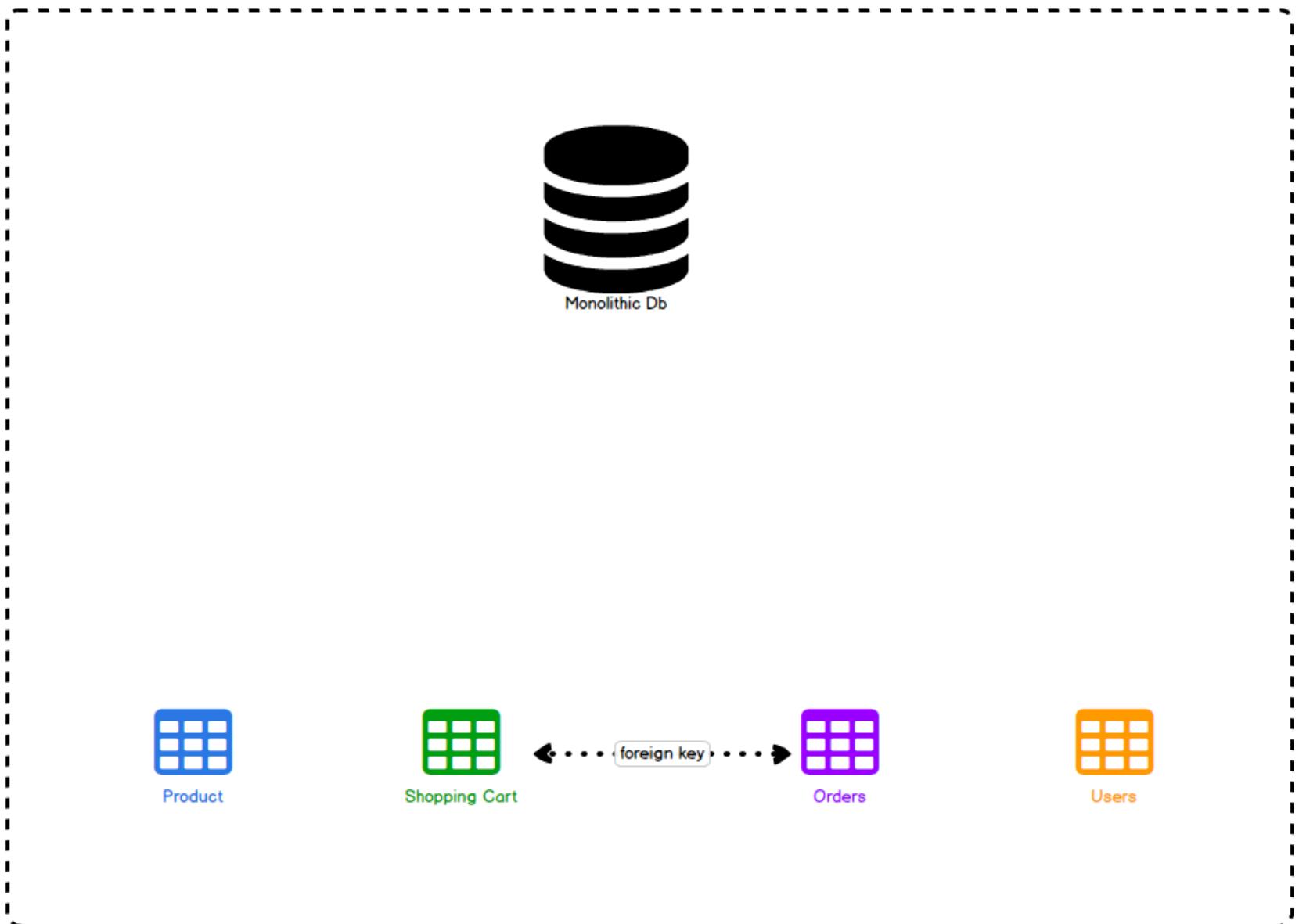
Architektura mikro-usług



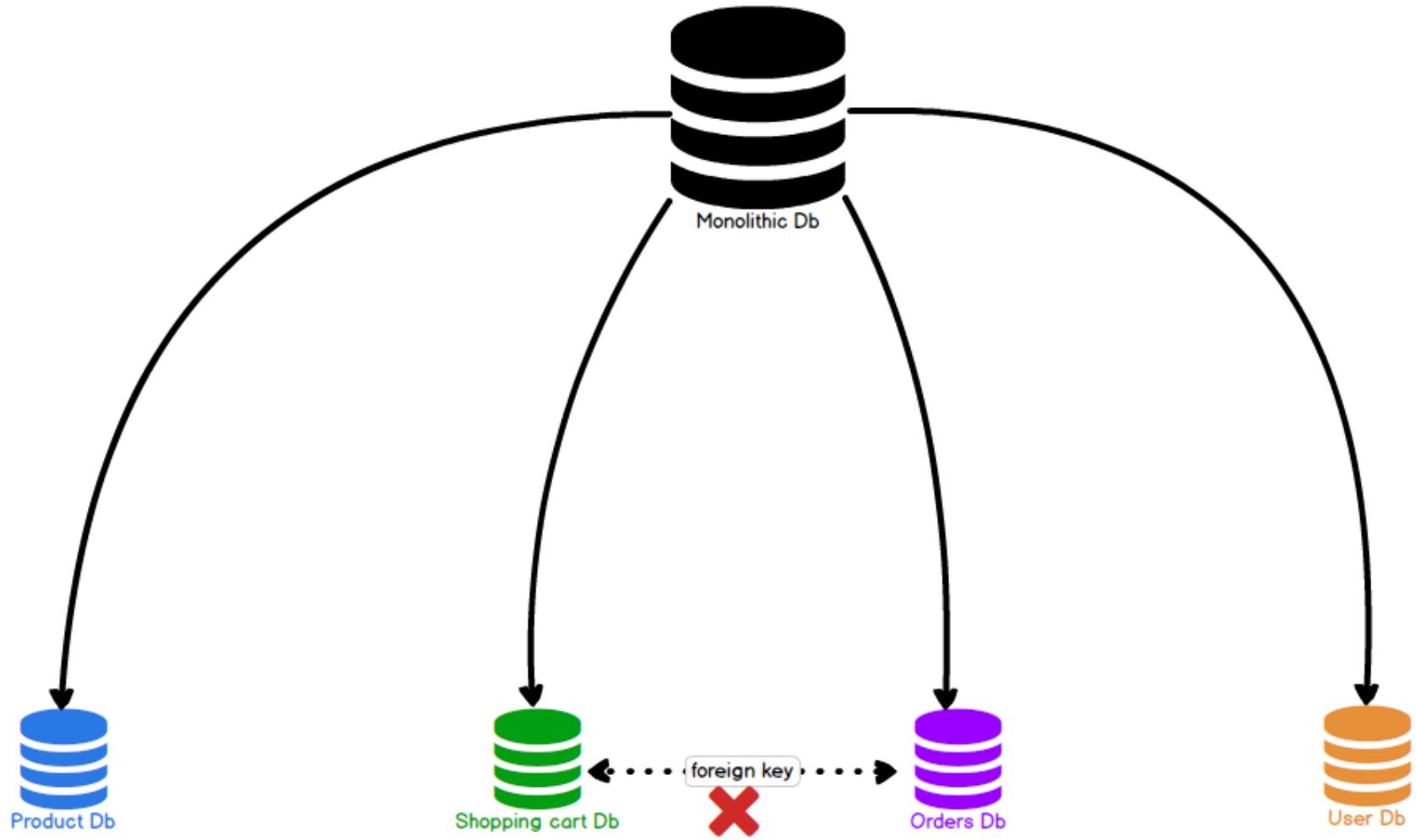


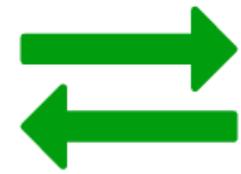
Database

Baza danych - monolit



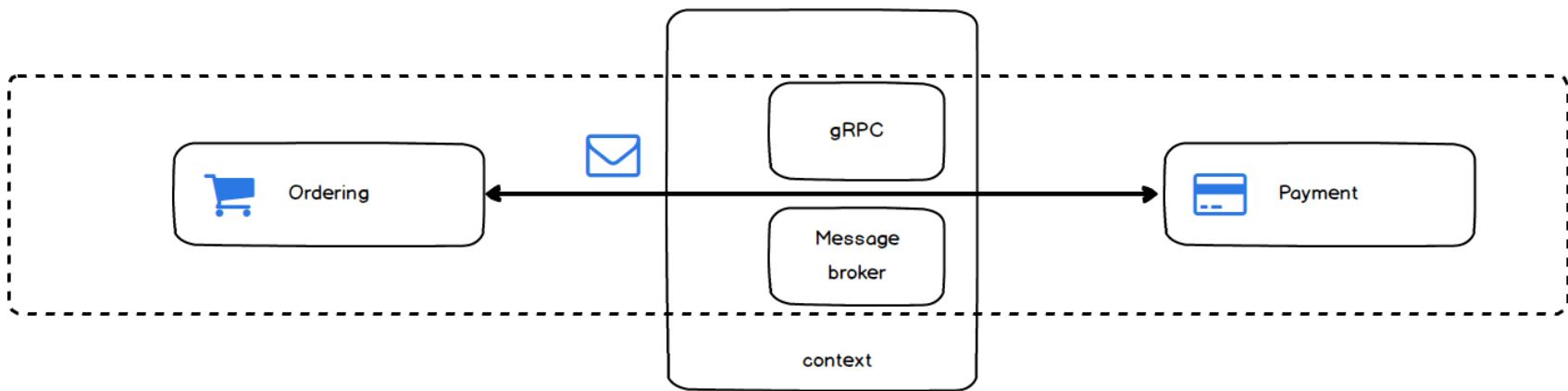
Baza danych - mikrousługi



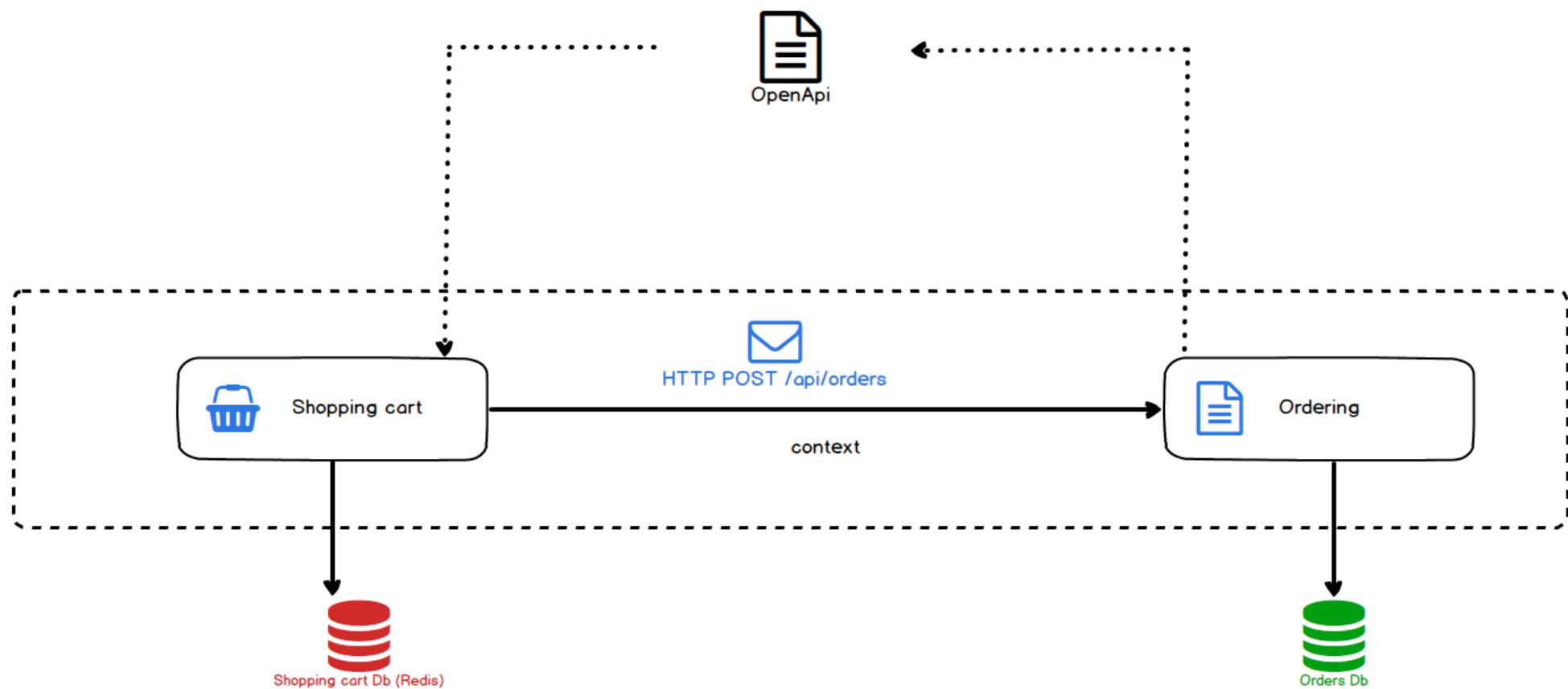


Communication

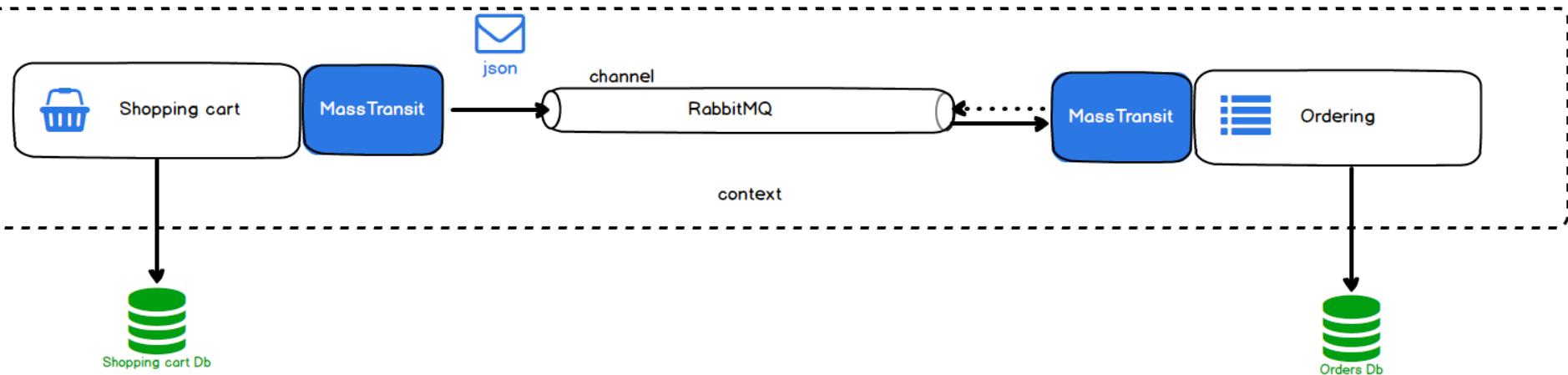
Komunikacja pomiędzy mikro-usługami



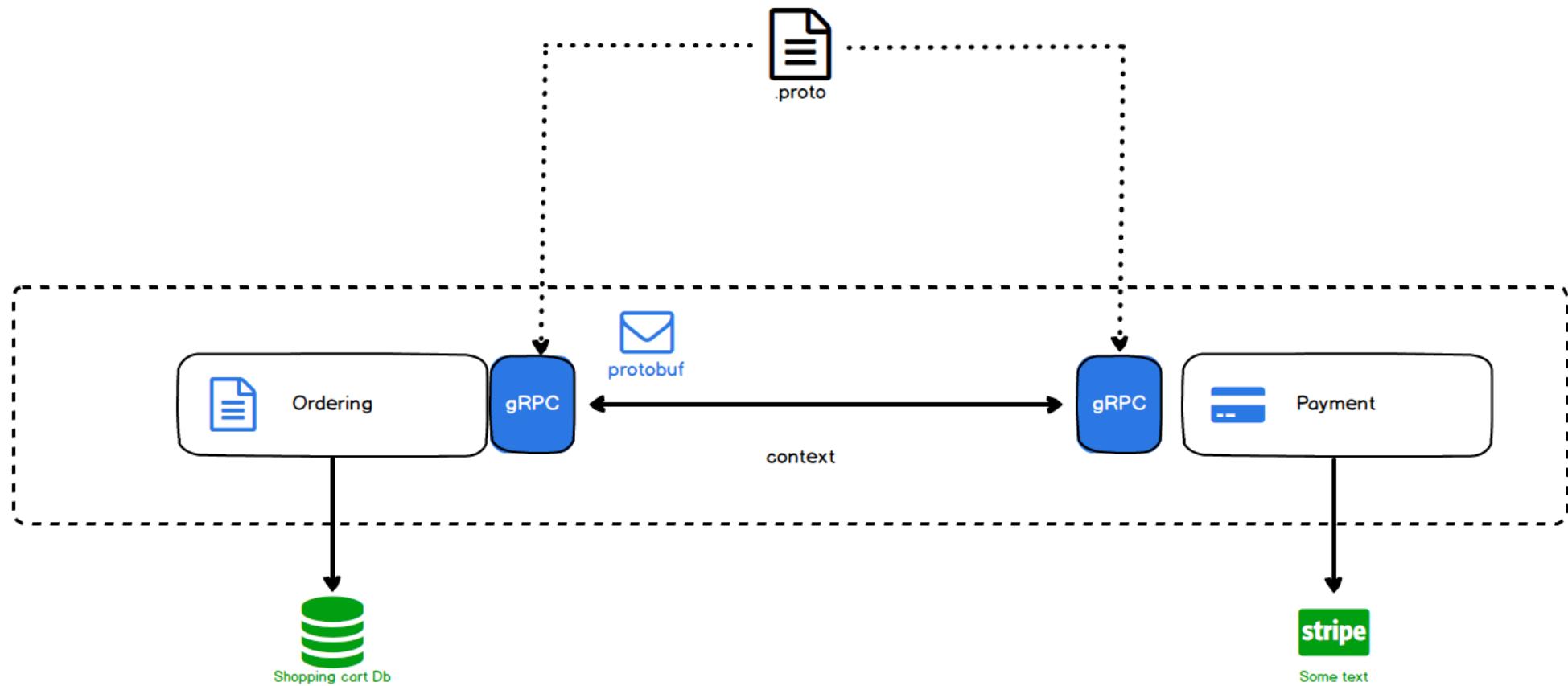
Komunikacja pomiędzy mikro-usługami za pomocą HTTP



Komunikacja pomiędzy mikro-usługami za pomocą gRPC



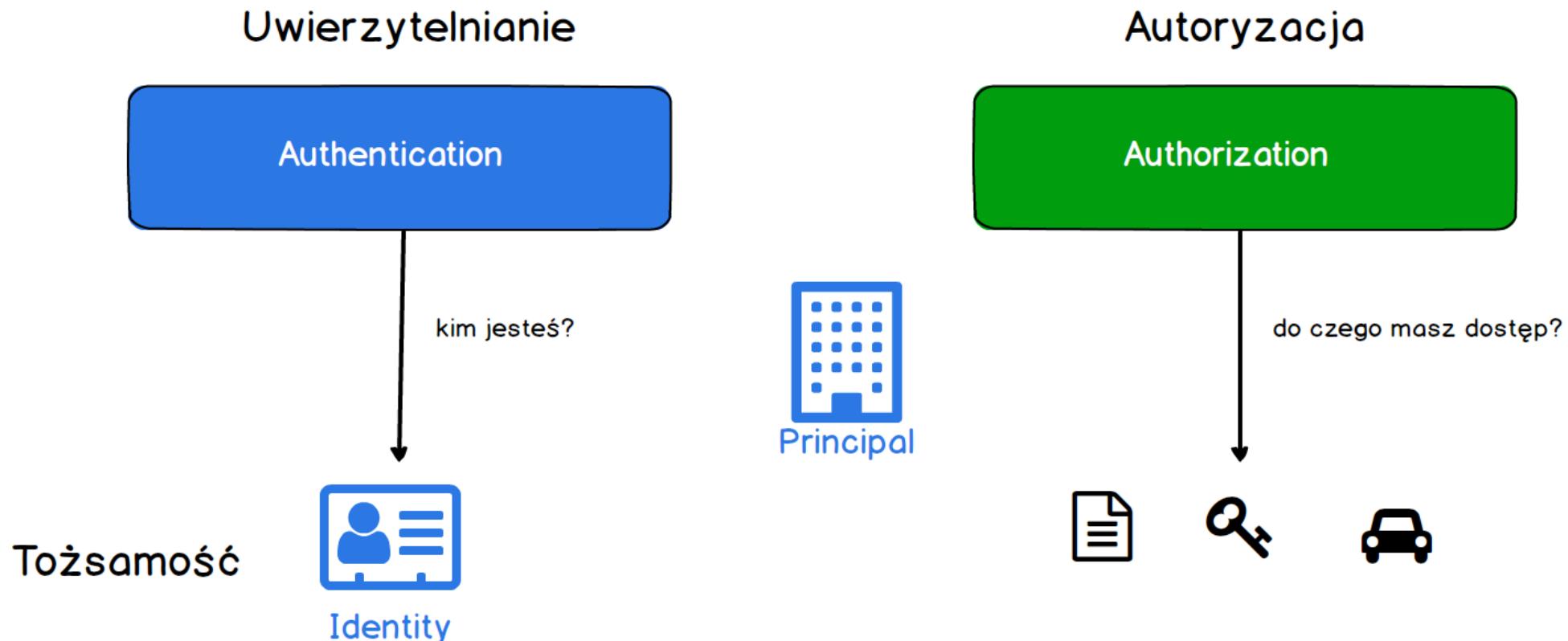
Komunikacja pomiędzy mikro-usługami za pomocą gRPC





Security

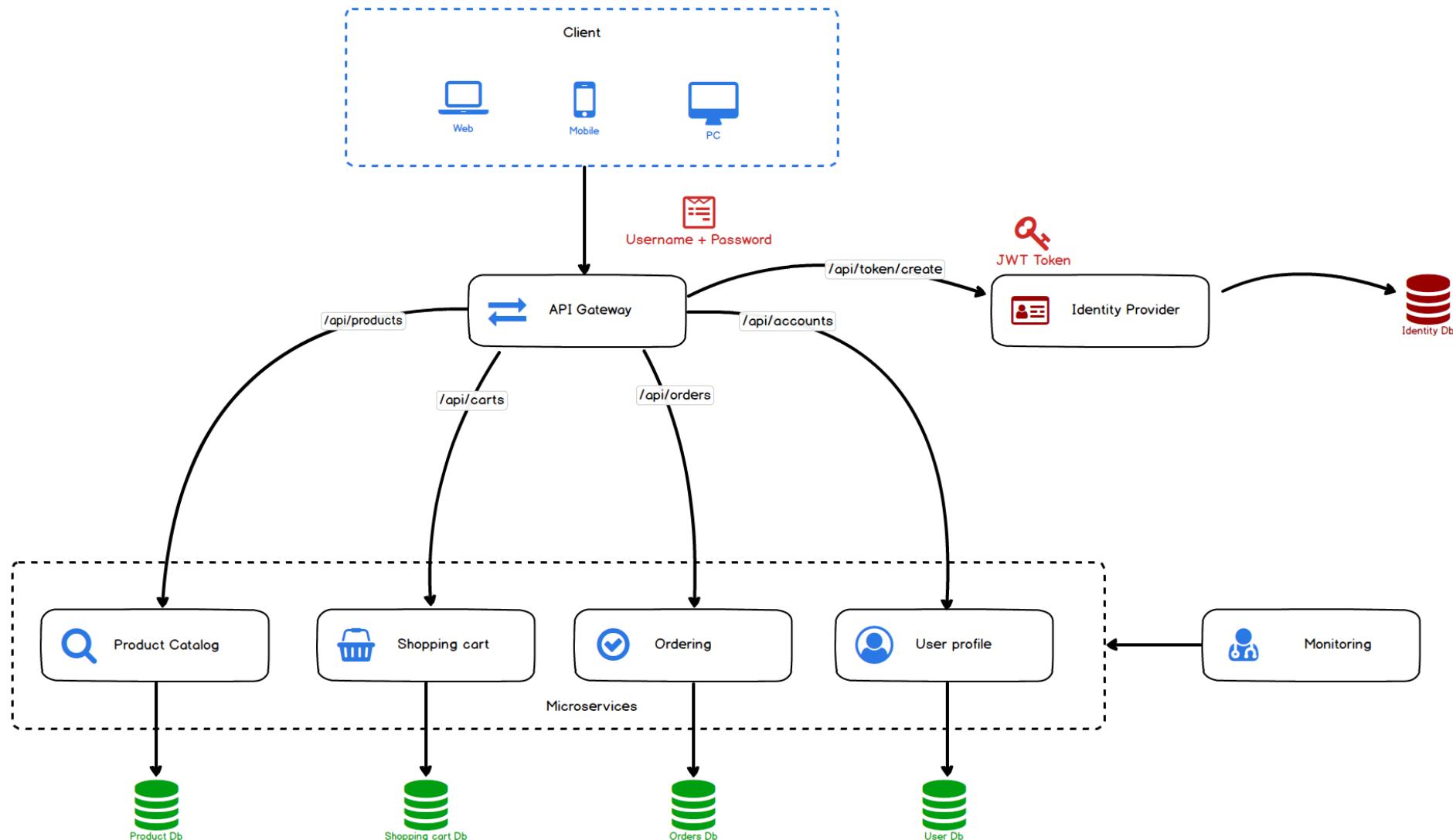
Authentication / Authorization



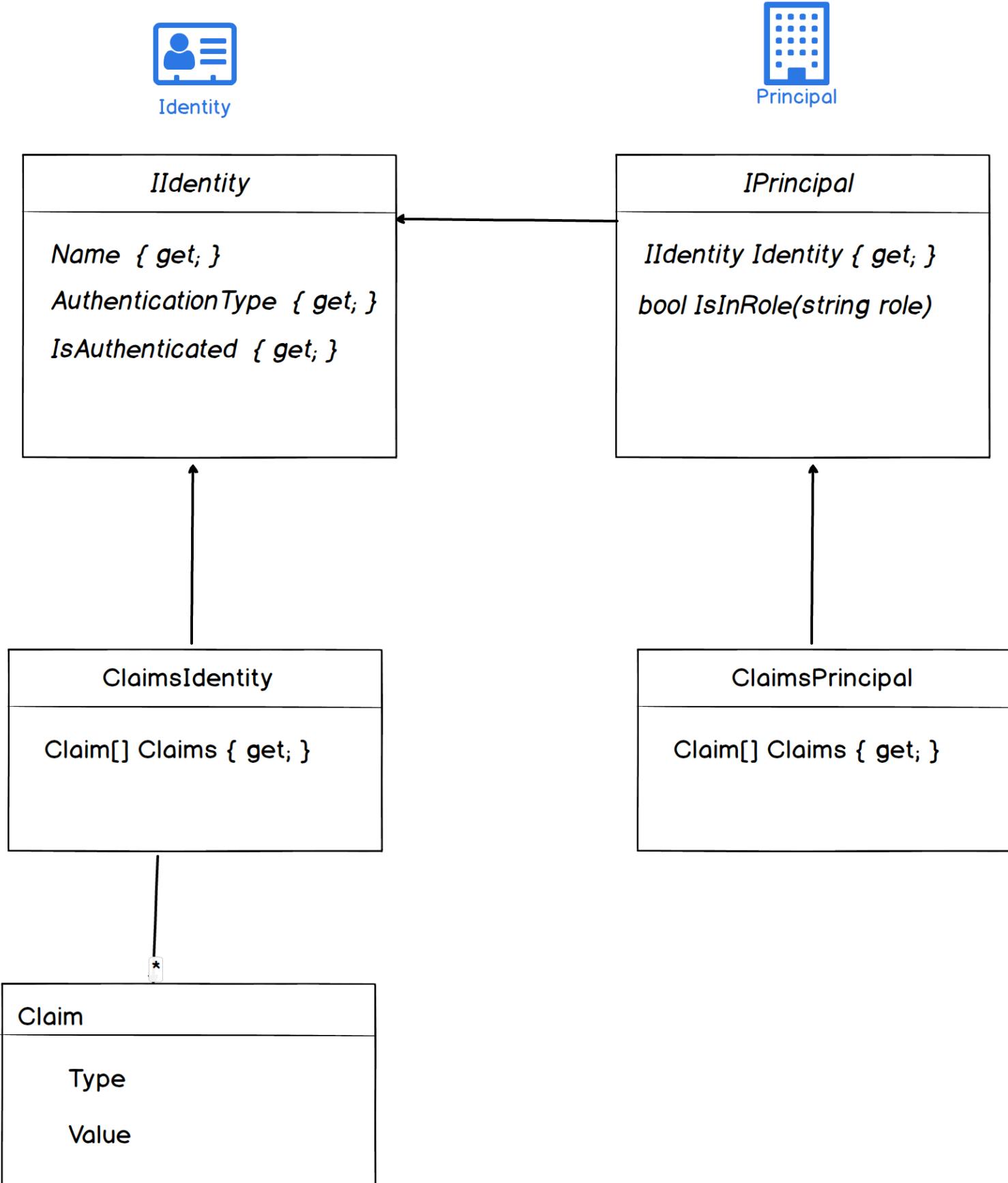
`.UseAuthentication()`

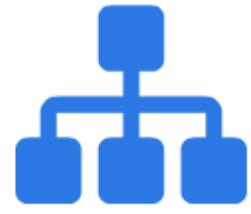
`.UseAuthorization()`

Architektura mikro-usług



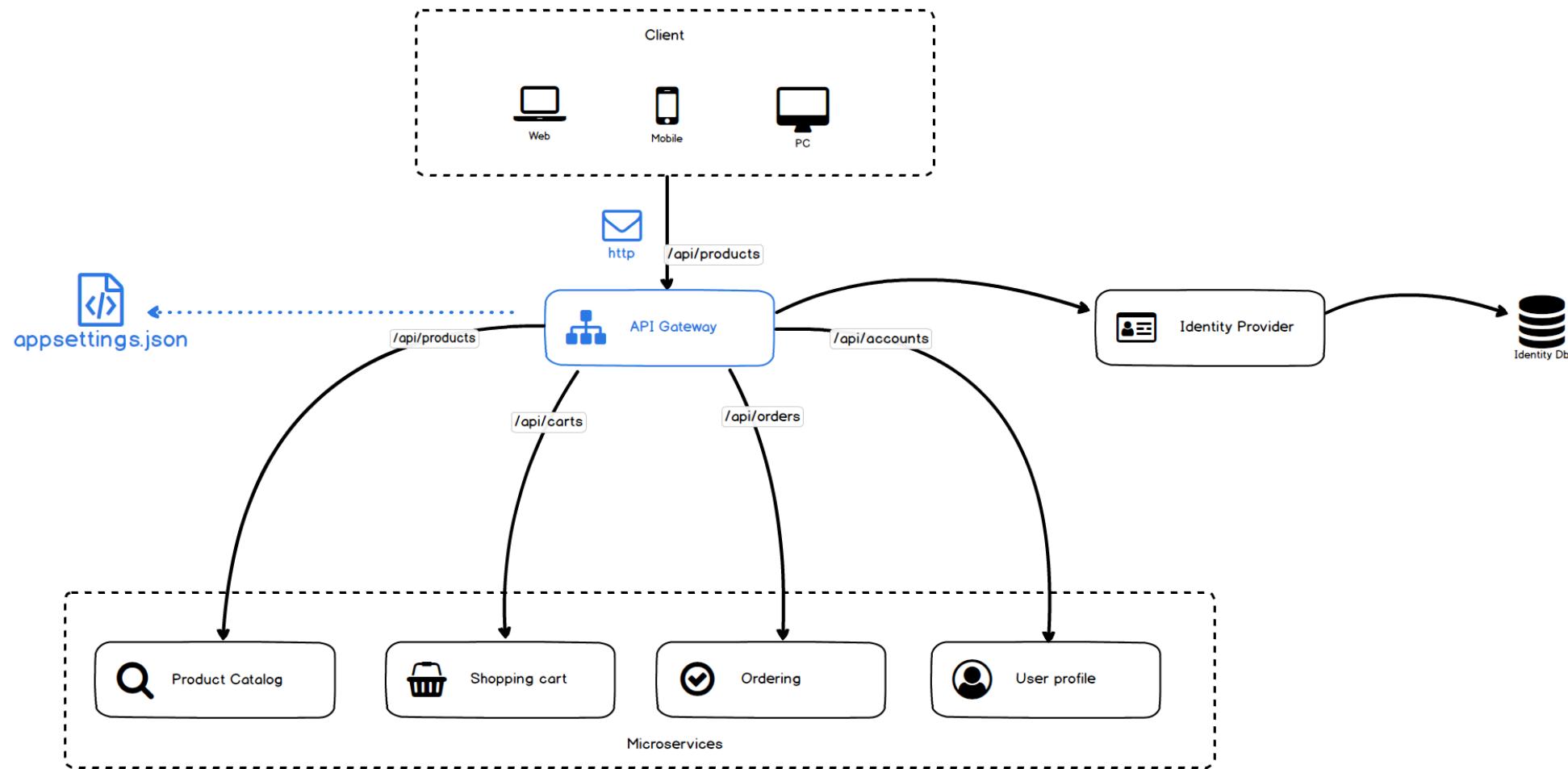
Tożsamość





Gateway API

ReverseProxy (YARP)

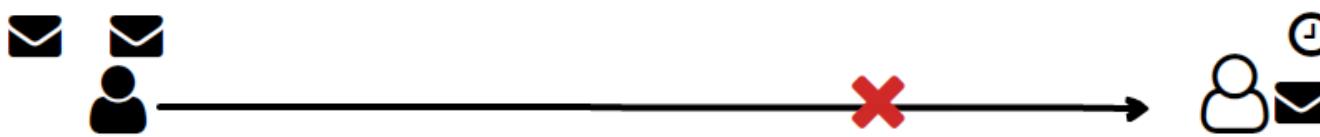




Docker



Notes



Iterator Design Pattern

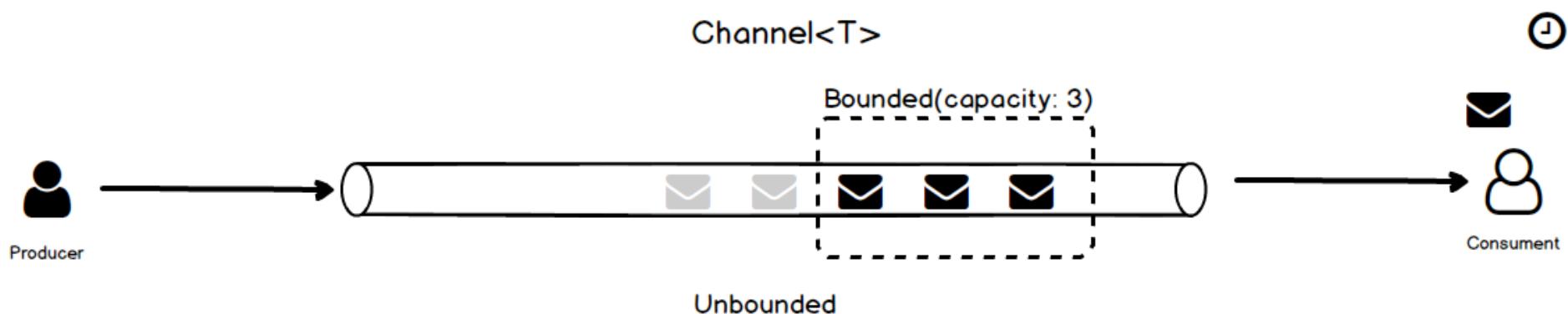
ConcurrentQueue<T>

Observer Design Pattern

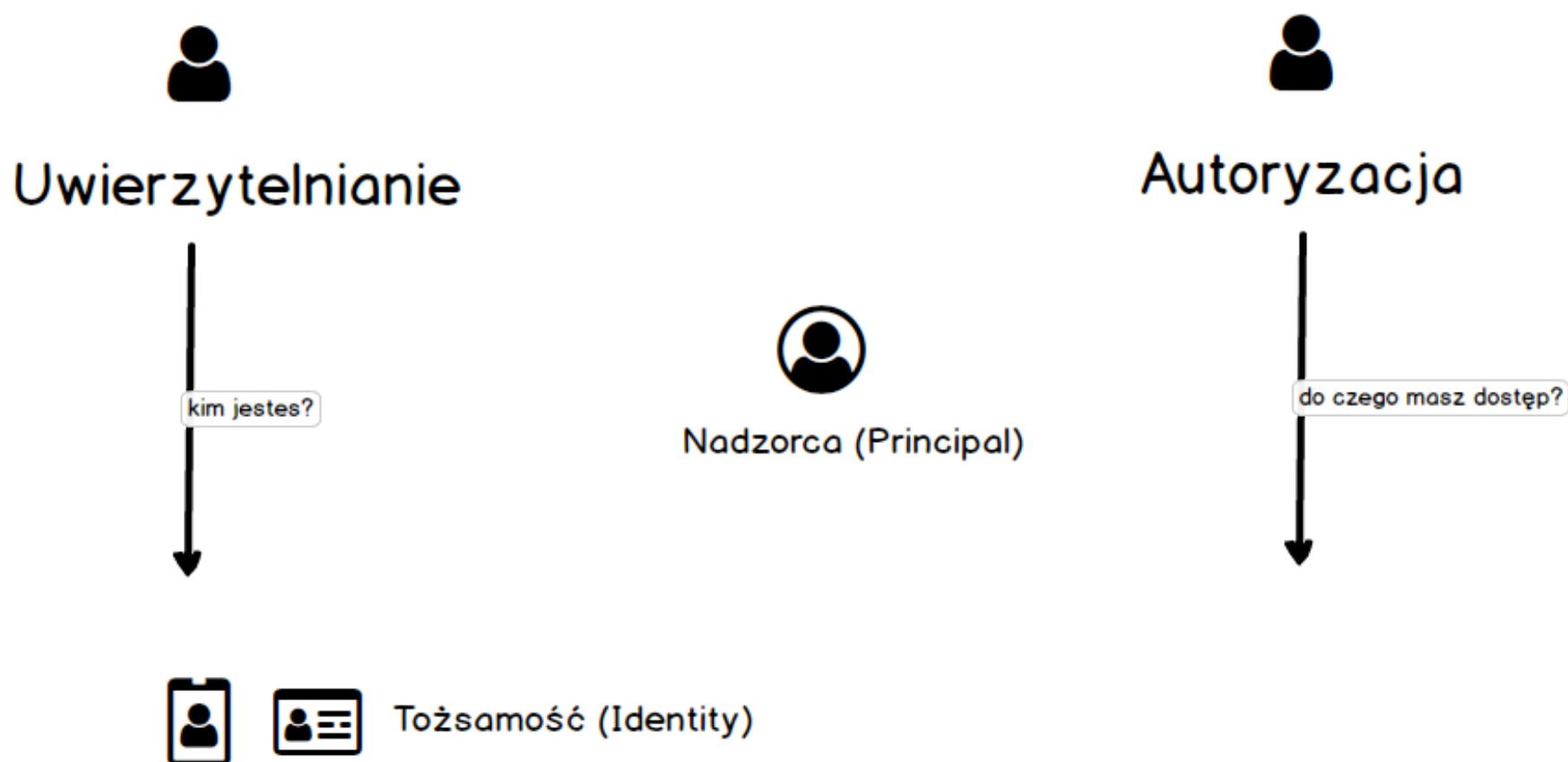
BlockingCollection<T>

Observer Design Pattern

Channel<T>



Authentication and Authorization





IIdentity

```
string Name { get; }
```

```
bool IsAuthenticated { get; }
```

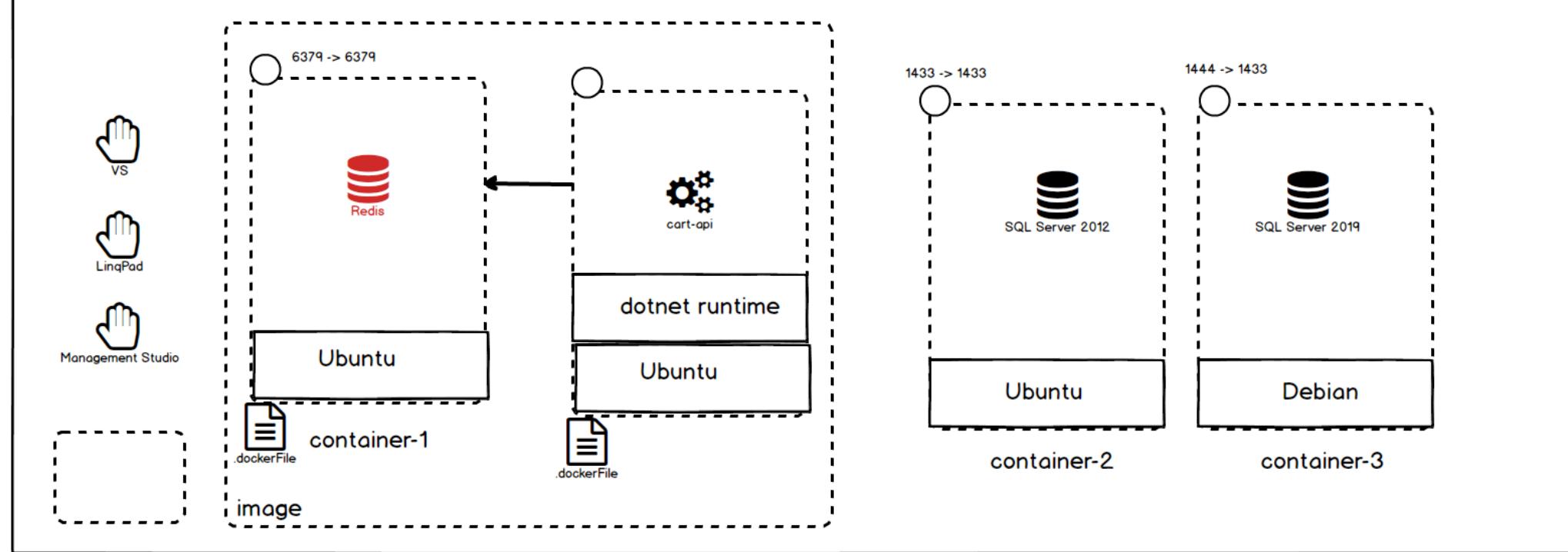
```
bool AuthenticationType { get; }
```

IPrincipal



ClaimIdentity

```
Claim[] Claims { get; }
```



Windows / Linux / MacOS



> *docker compose up*
> *docker compose down*