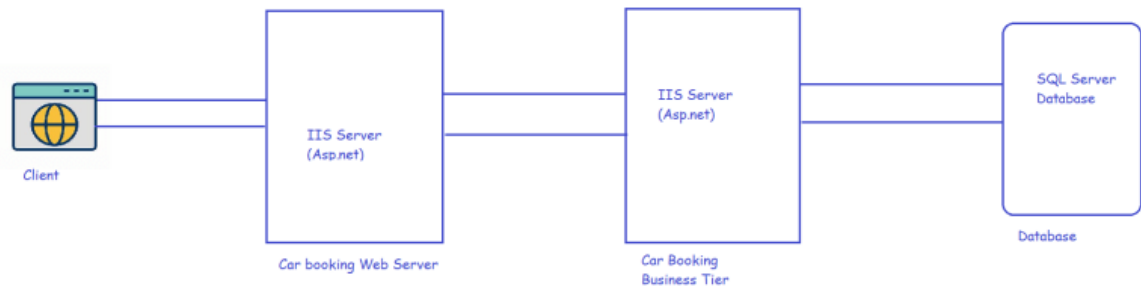
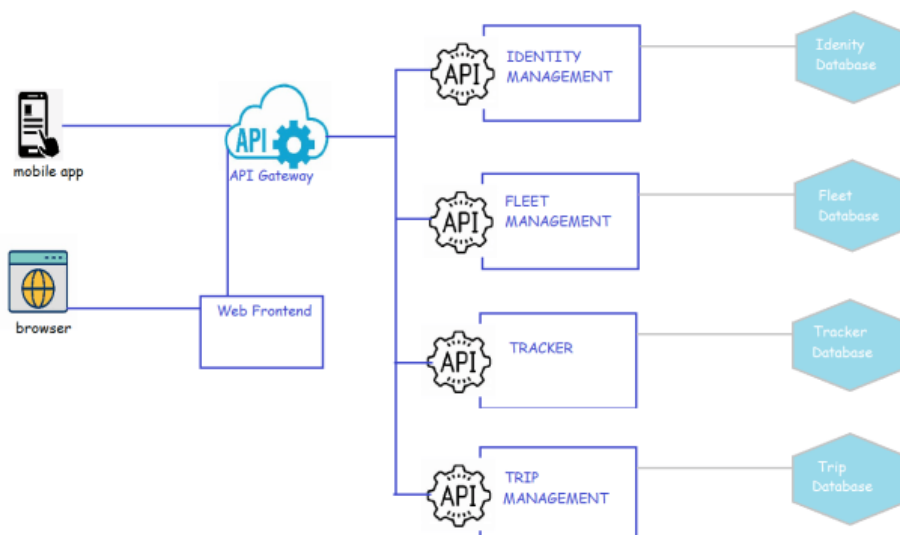


Case Study: Car booking Service

- The current implementation of Car booking Service is as follows

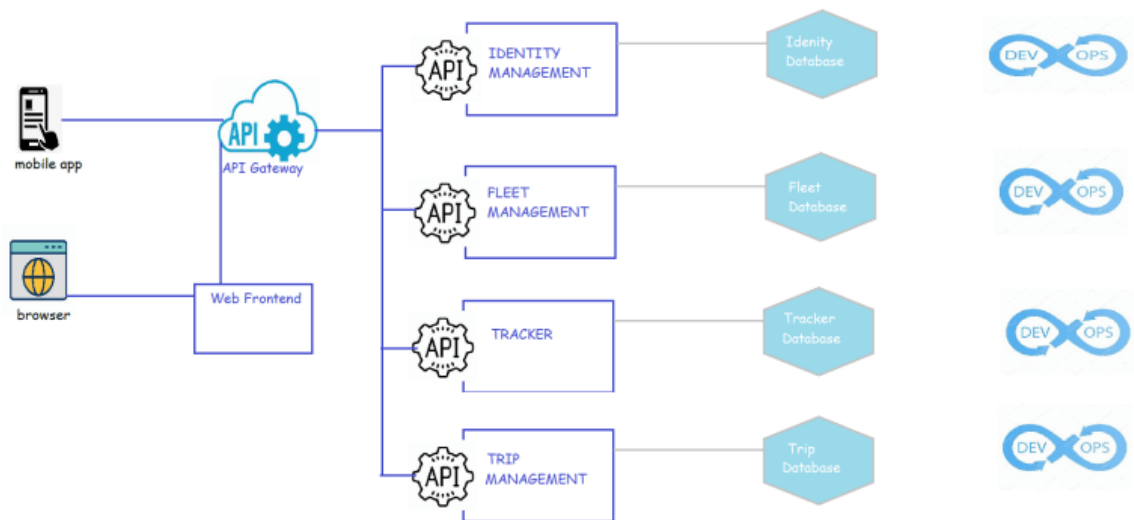


- The current architecture is an n-tier application architecture.
- Now the Business goals of the Car booking service are
 - Support mobile apps
 - Support Realtime booking of Cars
 - Planning to Serve other developing countries.
- The major components of this application as of now are
 - Web Server
 - App Server
 - Db Server
- As a first step, the Architect categorizes the application according to business domains:
 - Fleet Management: Here end-user can register their car like OLA/UBER
 - Tracker: Where is my car?
 - Trip Management: Bill calculation
 - Identity & Access Management: Authentication and authorization
- The architecture of the refactored application looks as shown below

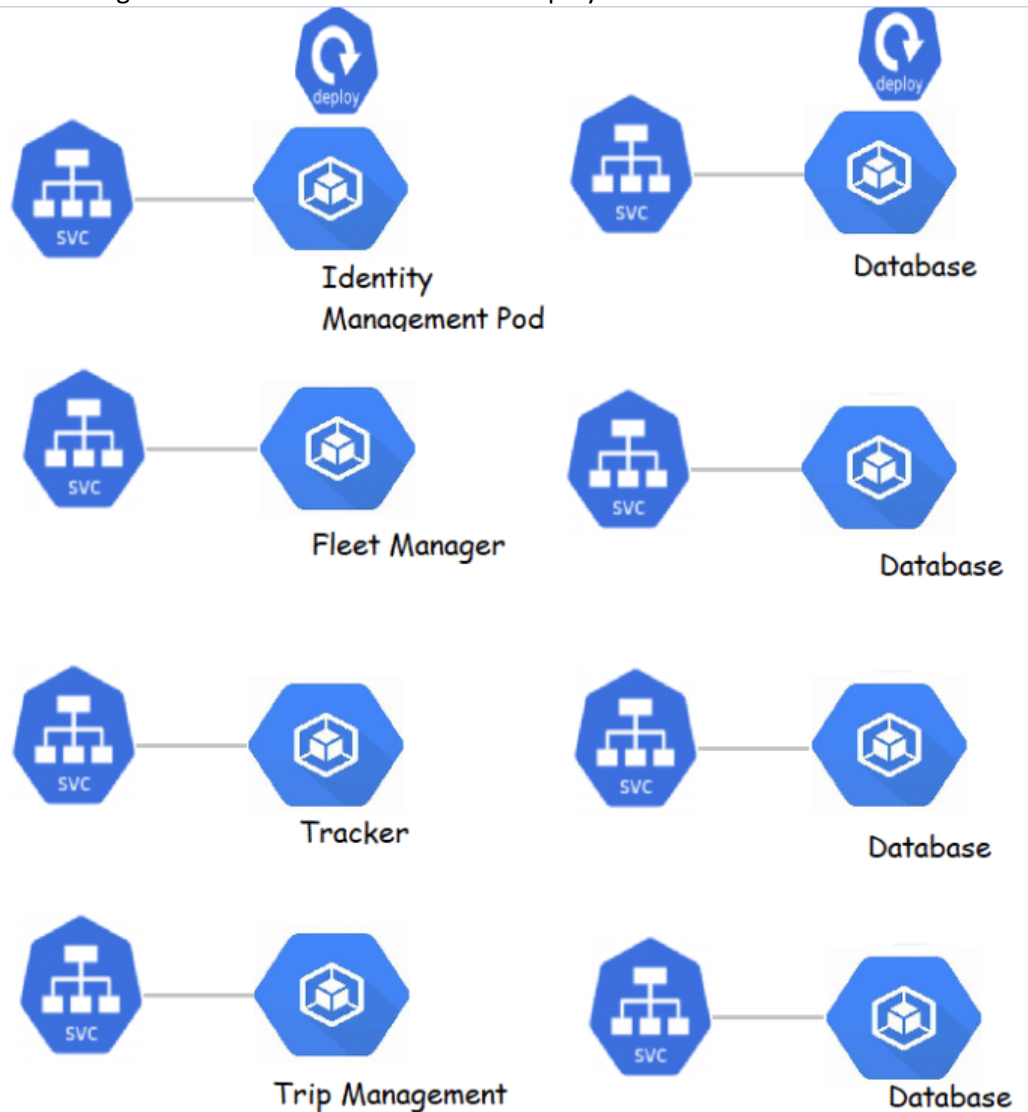


- Now, each application is owned by a different team. Each microservice will have its own database.

- Each microservice will have automated CI/CD pipeline.



- To realize this application
 - Each microservice has a docker image
 - This docker image is used to create a Kubernetes deployment



- To understand communication b/w microservices, we need to understand
 - How container in a Pod gets a network?
 - How can two containers in the same pod communicate with each other?
 - How Pod to Pod networking works?
 - How service to Pod networking works?
- How virtual networking works?
- What is bridge?
- Container Networking?
- Pod Networking?

Note: Strangler Pattern is used to switch to microservices from monoliths

