

Applications are the most valuable asset

OF THE MODERN ENTERPRISE



Physical Capital

Ford

Carnegie

Rockefeller



Human Capital

IBM

McKinsey & Company



Application Capital

Waze

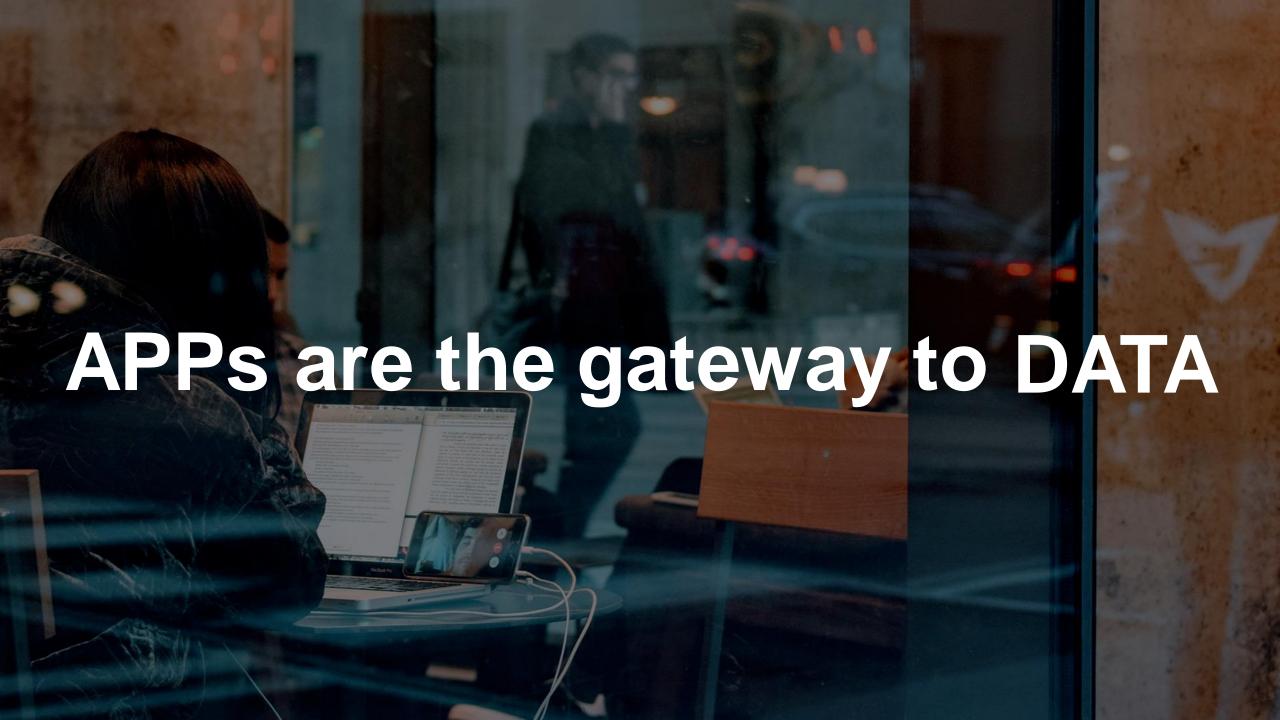
Moovit

Revolut

Nike







LearningAPIs

HISTORY LESSON

How we **USED** to build Apps

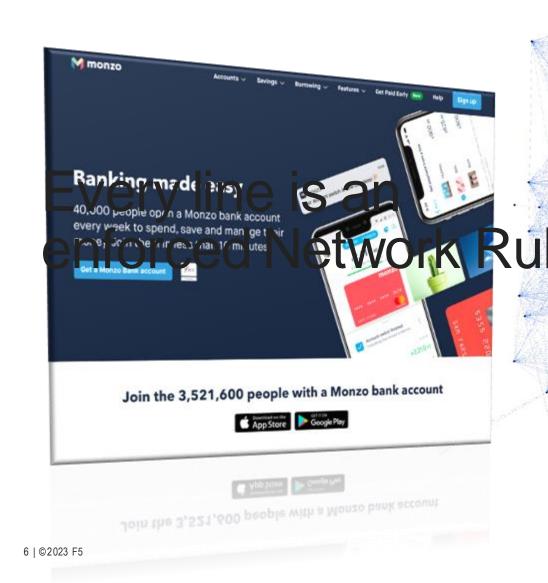


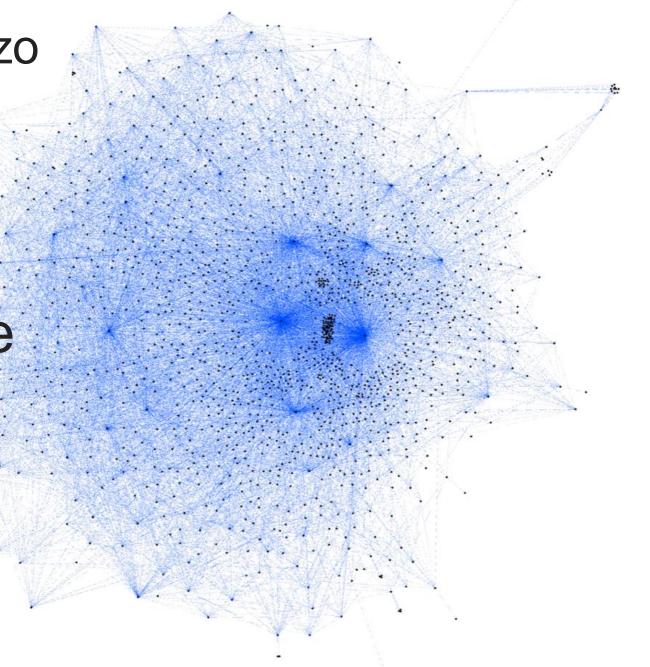
How we NOW build Apps





1500 Microservices at Monzo





"...API attacks would be the most common attack vector in 2022, resulting in data breaches for enterprise web applications.

...by 2024, API abuses and related data breaches will double."

Gartner

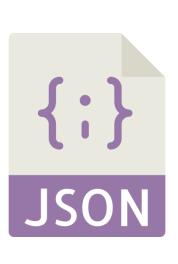


A Modern App?









JavaScript



mongoDB®





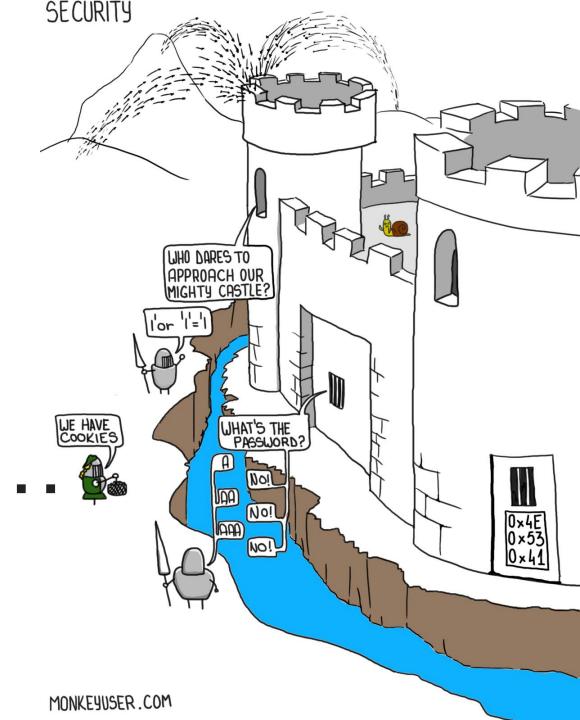








Security Castle of a Modern App...

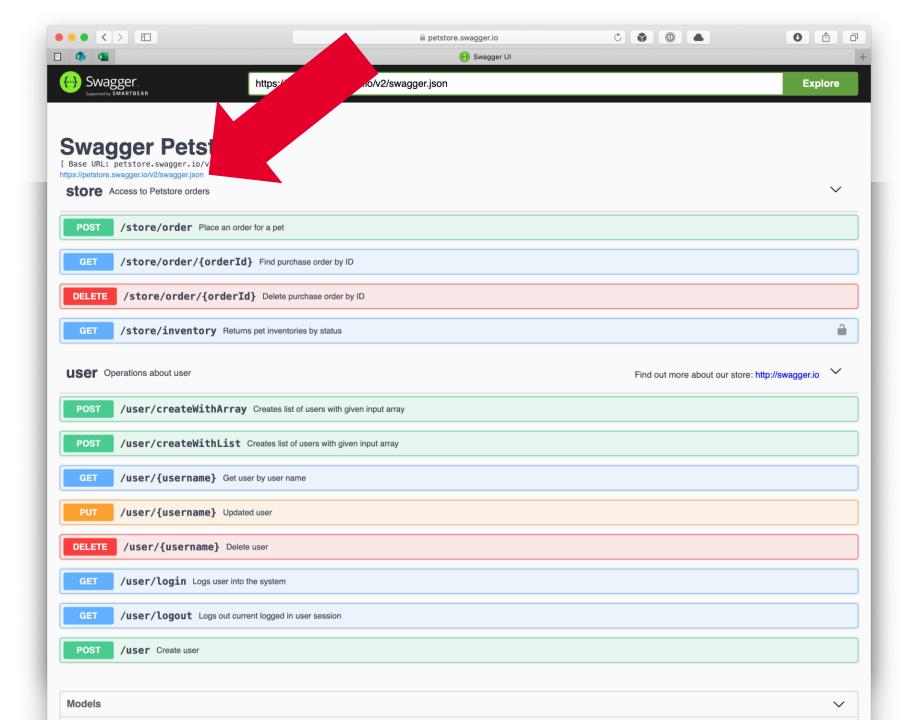


Developers at the **beginning** of a project

Developers at the **end** of a project

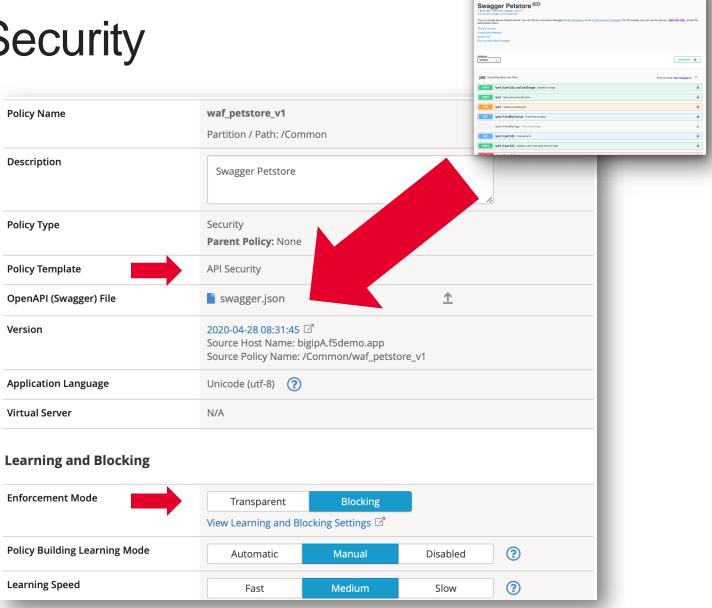






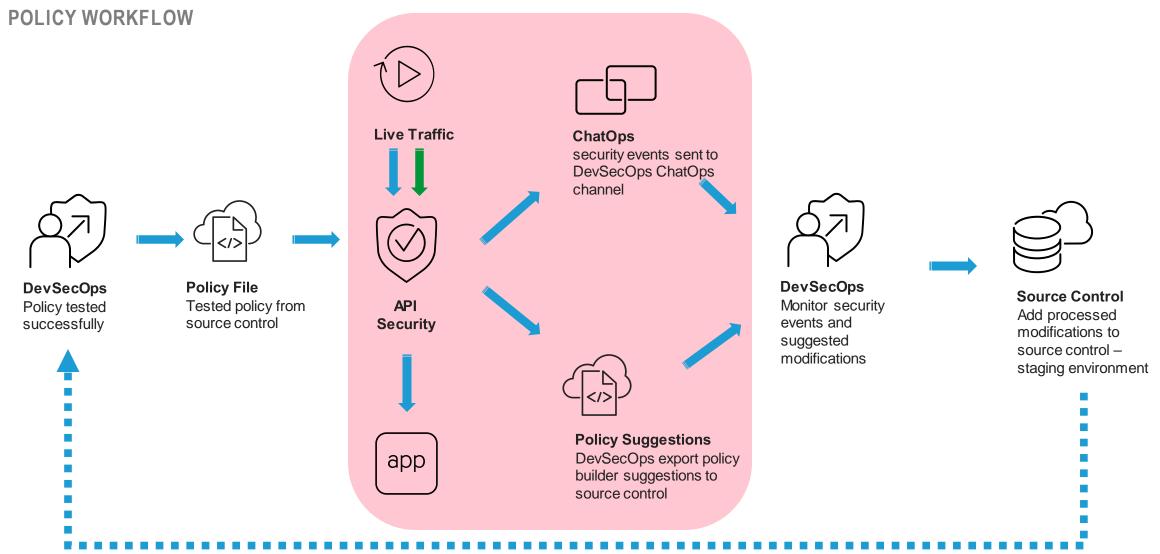


Modern App Security





F5 API Security as part of your CI/CD





API Security Easy

- Single File (JSON, YAML):
 - 1. Swagger
 - 2. Security Policy
- Positive Security
- No Learning = In Blocking from Day 1
- Available as:
 - Network Appliance
 - Container
 - ...As A Service

```
"swagger":"2.0",
"info":{
   "description": "This is a sample server Petstore server.",
   "version":"1.0.5",
   "title": "Swagger Petstore",
   "termsOfService": "http://swagger.io/terms/",
   "contact":{
      "email":"apiteam@swagger.io"
"host": "petstore.swagger.io",
"basePath":"/v2",
"schemes":[
   "https",
   "http"
"paths":{
   "/pet/{petId}/uploadImage":{
      "post":{
          "tags":[
             "pet"
         "summary": "uploads an image",
         "description":"",
         "operationId":"uploadFile",
          "consumes":[
            "multipart/form-data"
         "produces":[
             "application/json"
          "parameters":[
                "name": "petId",
                "in":"path",
               "description": "ID of pet to update",
                "required":true,
               "type": "integer",
                "format": "int64"
```

```
"policy": {
     "name": "policy-api-petstore",
     "description": "Petstore API",
     "template": {
         "name": "POLICY_TEMPLATE_API_SECURITY"
     "enforcementMode": "blocking",
     "server-technologies": [
             "serverTechnologyName": "Node.js"
         },
             "serverTechnologyName": "Unix/Linux"
         },
             "serverTechnologyName": "MongoDB"
     "signature-settings": {
         "signatureStaging": false
     "policy-builder": {
         "learnOnlyFromNonBotTraffic": false
     "open-api-files": [
         "link": "https://petstore.swagger.io/v2/swagger.json"
```

F5 WAF CI/CD Compliant

- JSON Declarative format for F5 AWAF and NGINX AppProtect
- Ability to PULL the OpenAPI/Swagger files
- Policy modifications
- Webhooks for integration with Slack/Teams
- Send event logs in JSON format







Distributed Cloud Services

F5 AWAF

NGINX AppProtect

