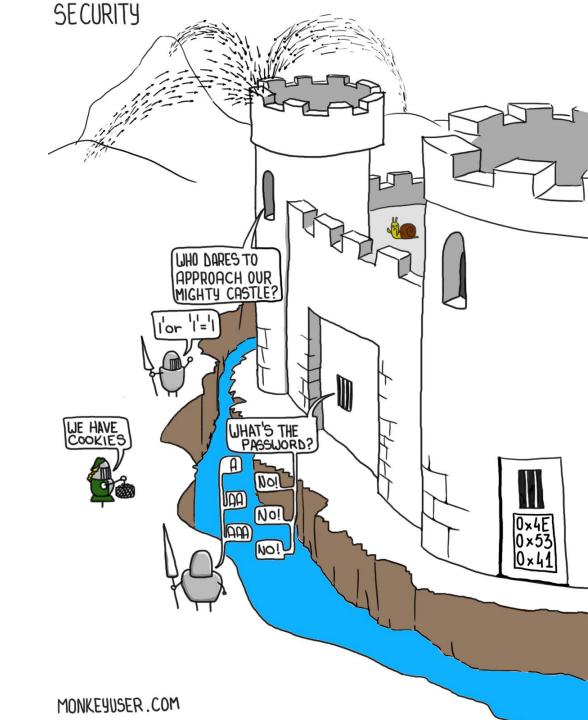


Security Castle













Learning APIs

HISTORY LESSON

How we **USED** to build Apps

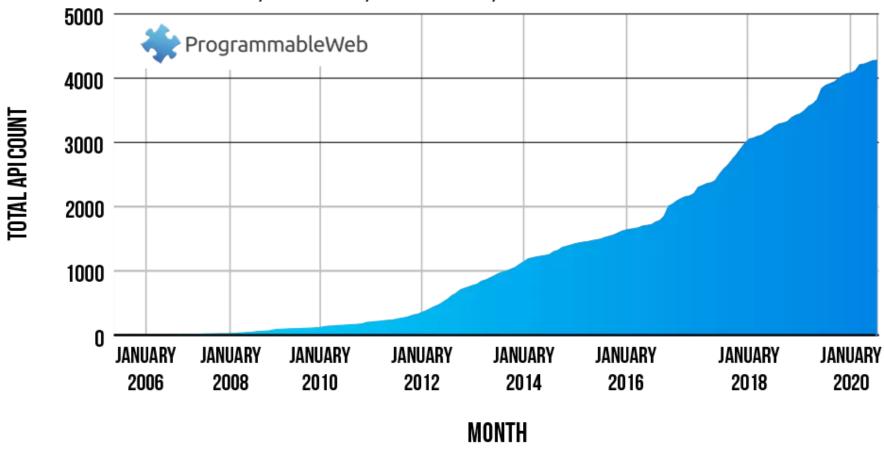


How we NOW build Apps

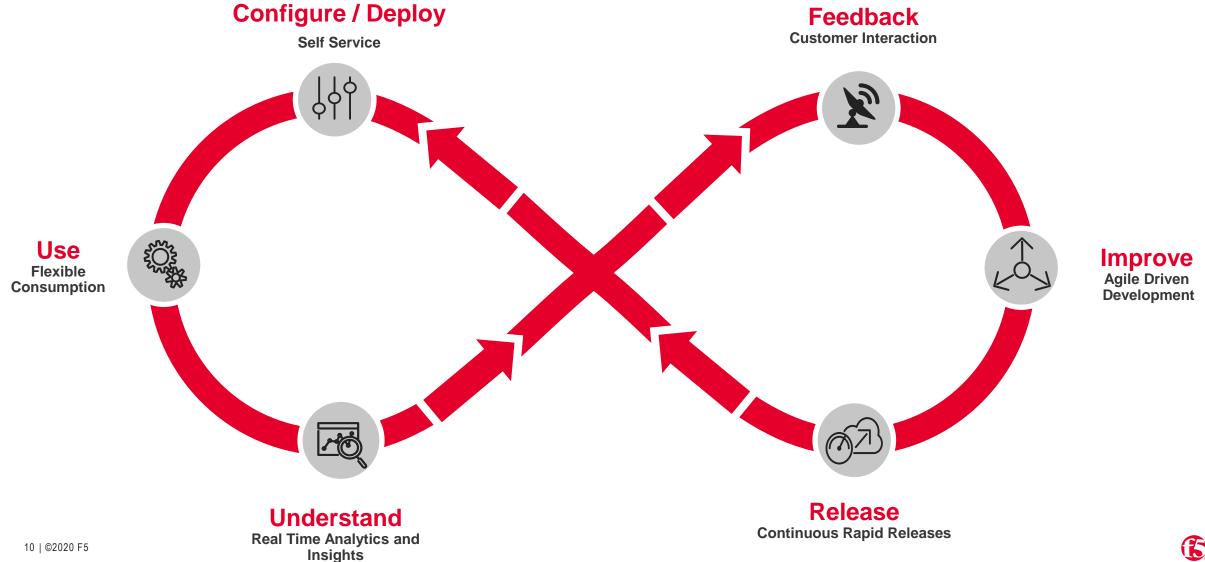




GROWTH IN FINANCIAL RELATED (FINANCIAL, BANKING, PAYMENTS, MONETIZATION) APIS SINCE 2005

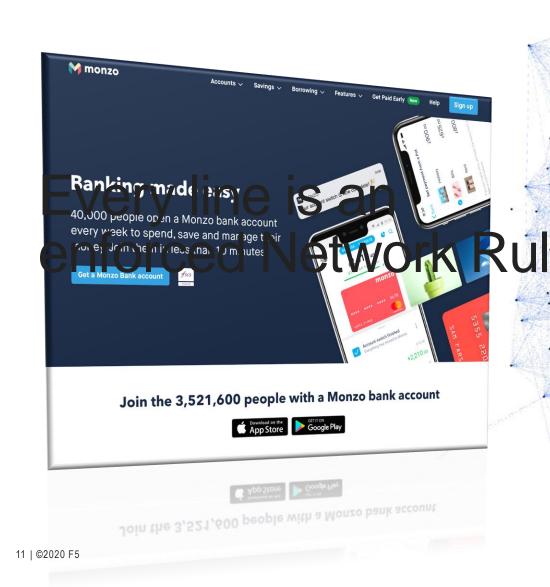


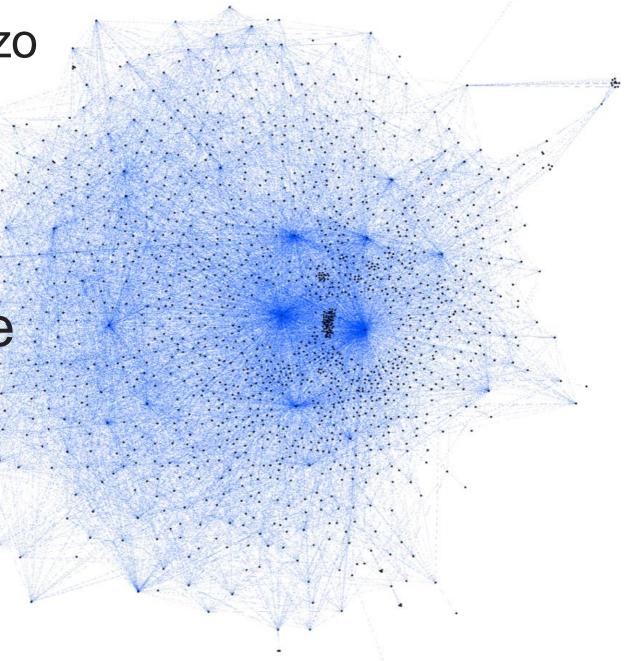
Rapid Feedback & Innovation Cycle



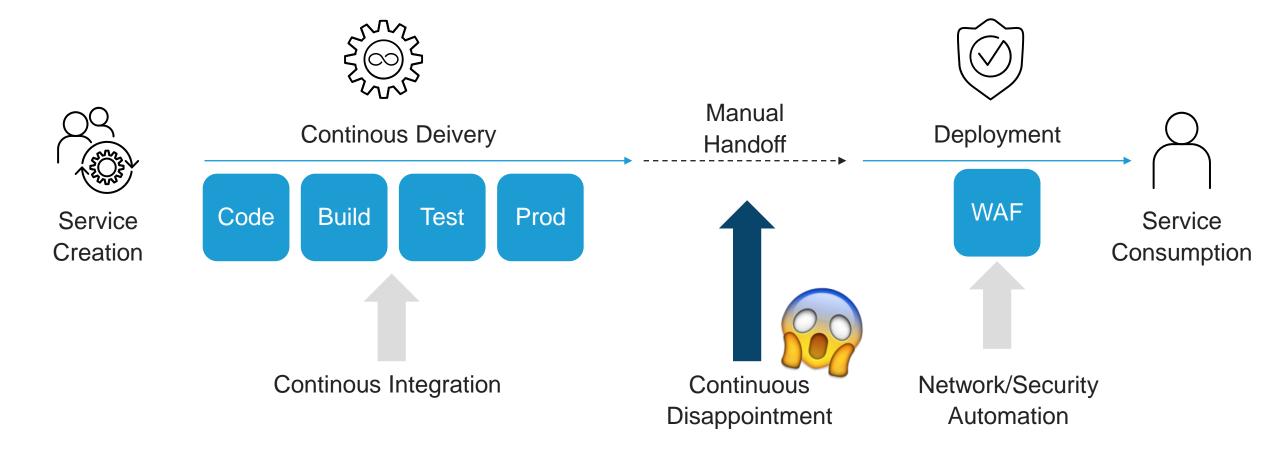


1500 Microservices at Monzo



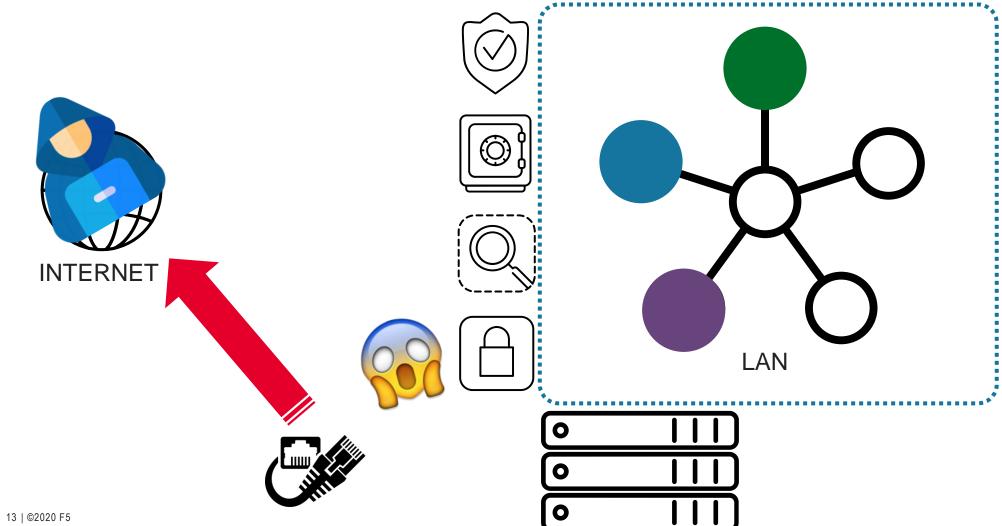


CI/CD Pipeline





Agile way...





"By 2022, API abuses will be the most-frequent attack vector resulting in data breaches..."

Gartner



A Modern App?











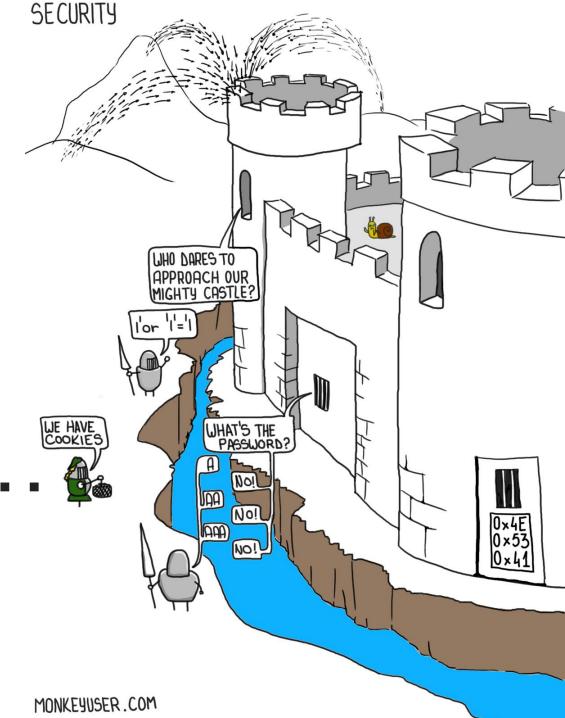




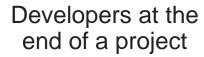




Security Castle of a Modern App...



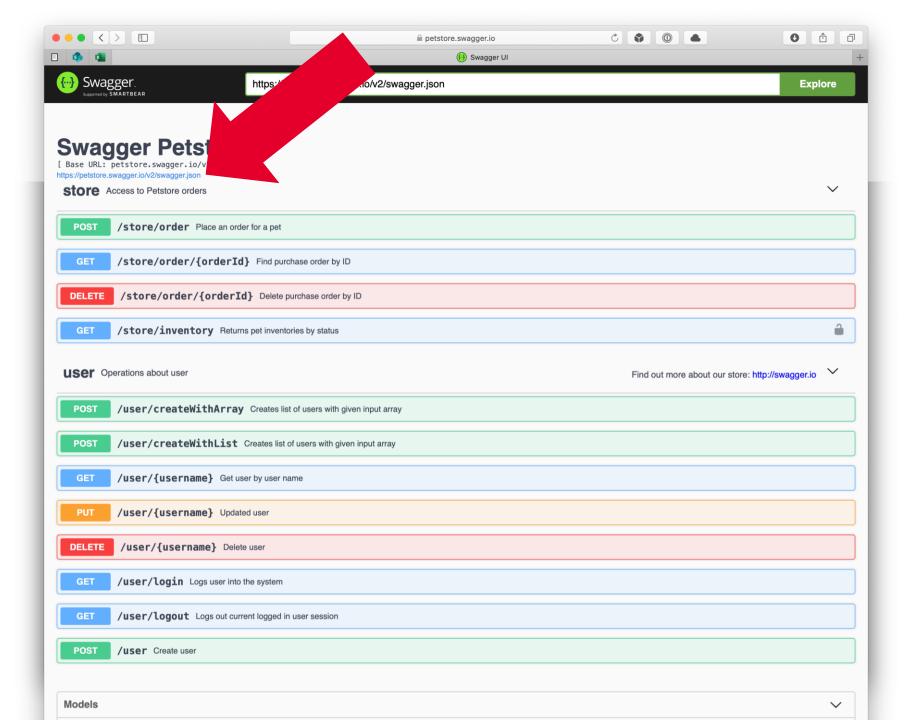
Developers at the beginning of a project











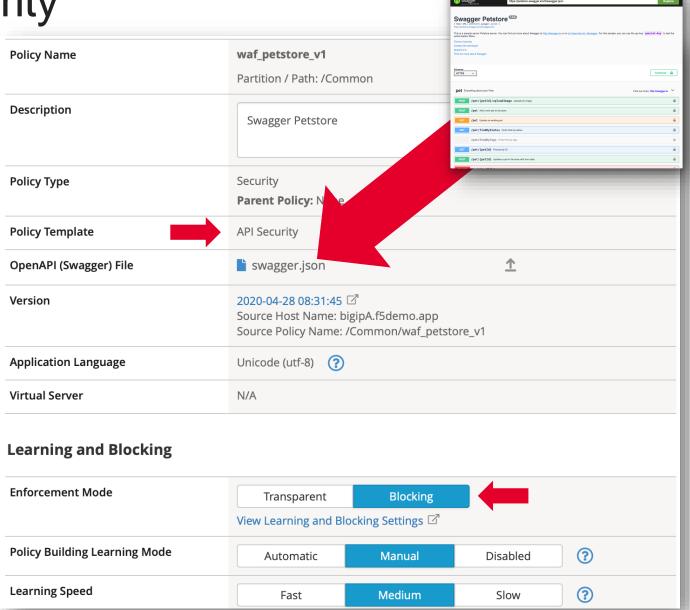


Modern App Security

ADVANCED WAF POLICY

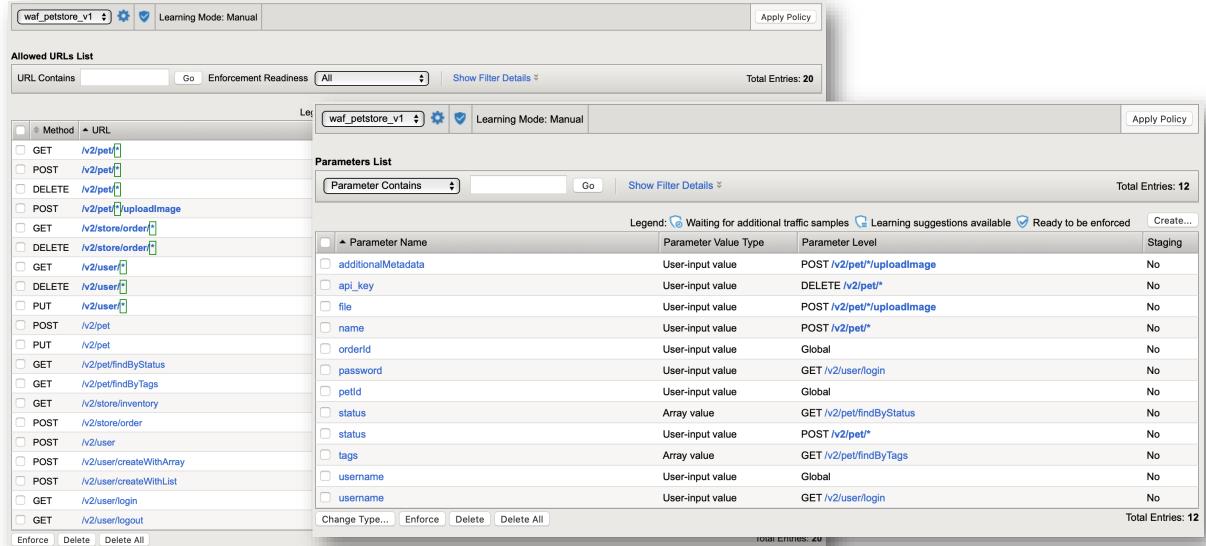








Modern App Security



WAF Easy

- Single File (JSON, YAML)
- Can Share Settings from Parent Policy
- Positive Security
- No Learning
- In Blocking from Day 1

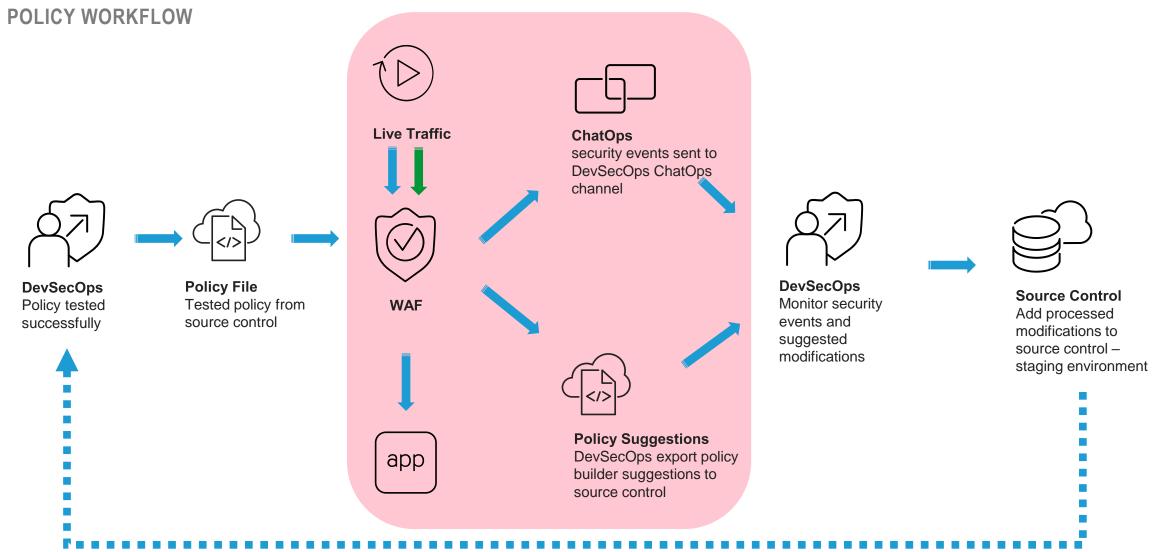
```
"swagger":"2.0",
   "info":{
      "description": "This is a sample server Petstore server.",
      "version":"1.0.5",
      "title": "Swagger Petstore",
      "termsOfService": "http://swagger.io/terms/",
      "contact":{
         "email":"apiteam@swagger.io"
   "host": "petstore.swagger.io",
   "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"
```

WAF CI/CD Compliant

- Ability to consume JSON Declarative format
- Ability to PULL the OpenAPI/Swagger files
- Policy Modifications / Patching
- Webhooks for integration with Slack/Teams
- Send event logs in JSON format

F5 AWAF as part of your CI/CD





```
"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
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        "learnOnlyFromNonBotTraffic": false
    "open-api-files": [
        "link": "https://petstore.swagger.io/v2/swagger.json"
```





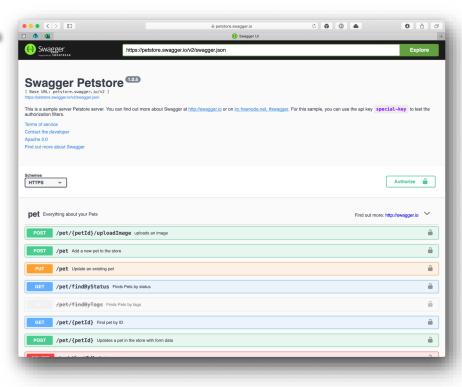
F5 AWAF

NGINX App Protect











Any Deployment & Any Tool



































