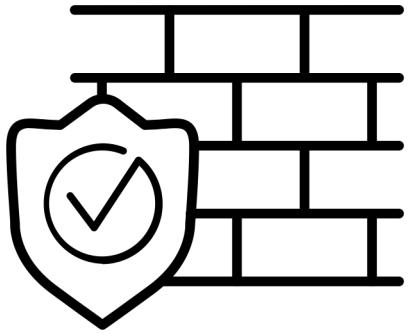
F5 automation Toolchain: AS3

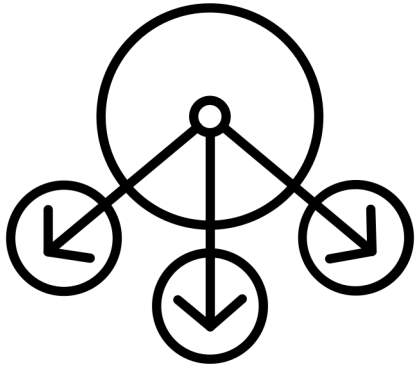
A DECLARATIVE INTERFACE TO CONFIGURE APP SECURITY

Good News:

F5 BIG-IP IS **AMAZINGLY** GREAT AT



Defending



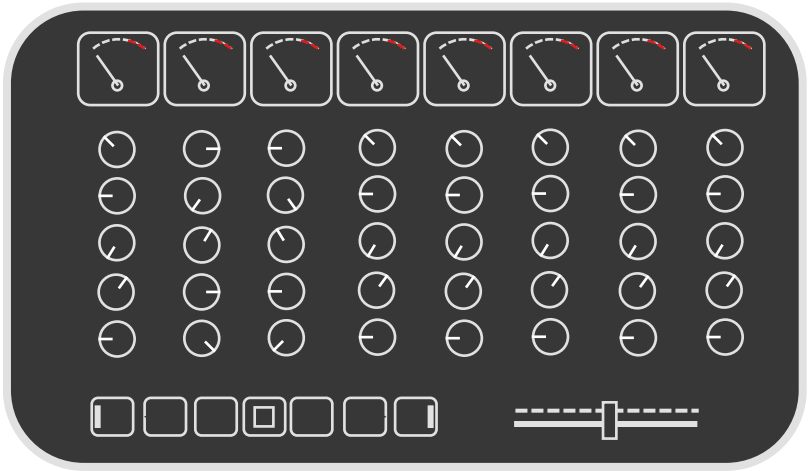
Scaling

Observing

YOUR APPLICATIONS

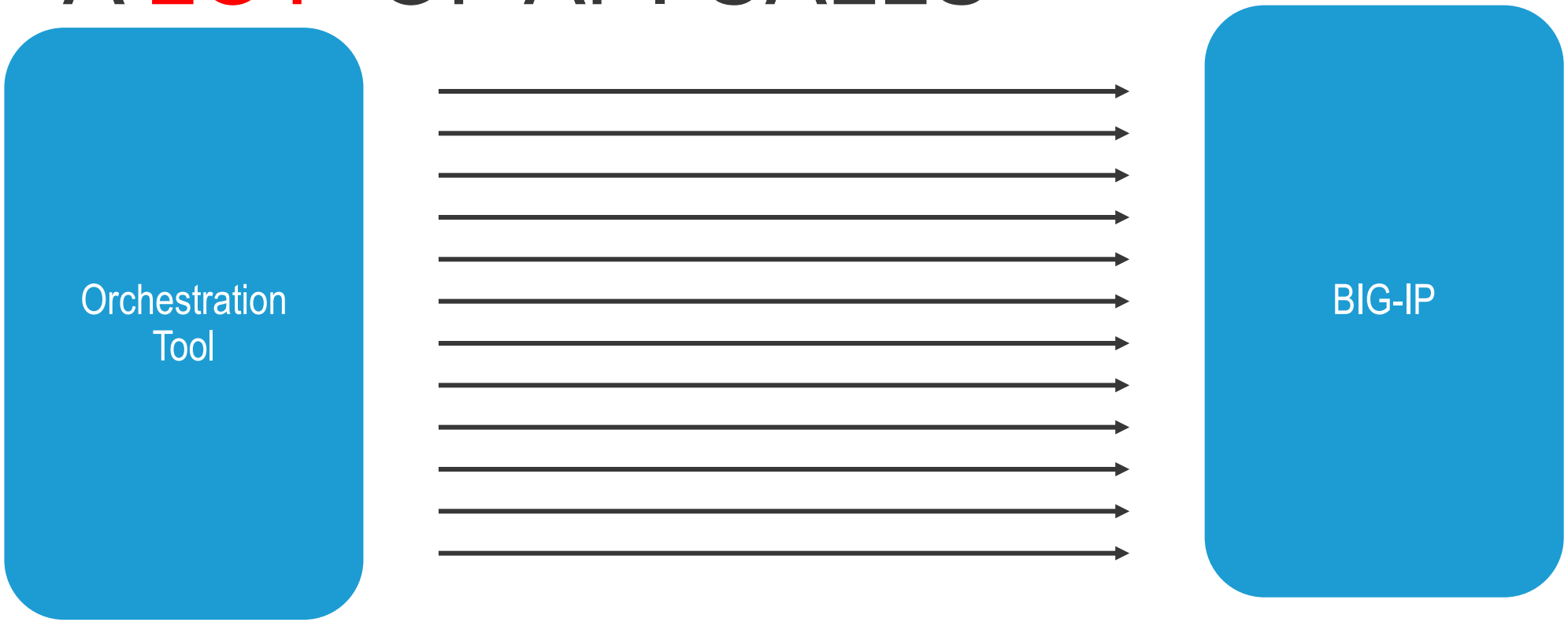
Bad News:

A LOT OF KNOBS AND DIALS



Bad News:

= A LOT OF API CALLS



Imperative automation

Make all the right calls
In all the right order
Results depend on what's already there

(might be the lyrics to my next hit single)

Declarative automation

Define what you want

Make the call

Let the system sort it out

(chapters of my next self-help book)

F5 AS3 API

Well defined object model

Single API Call

Let the system sort it out

Example

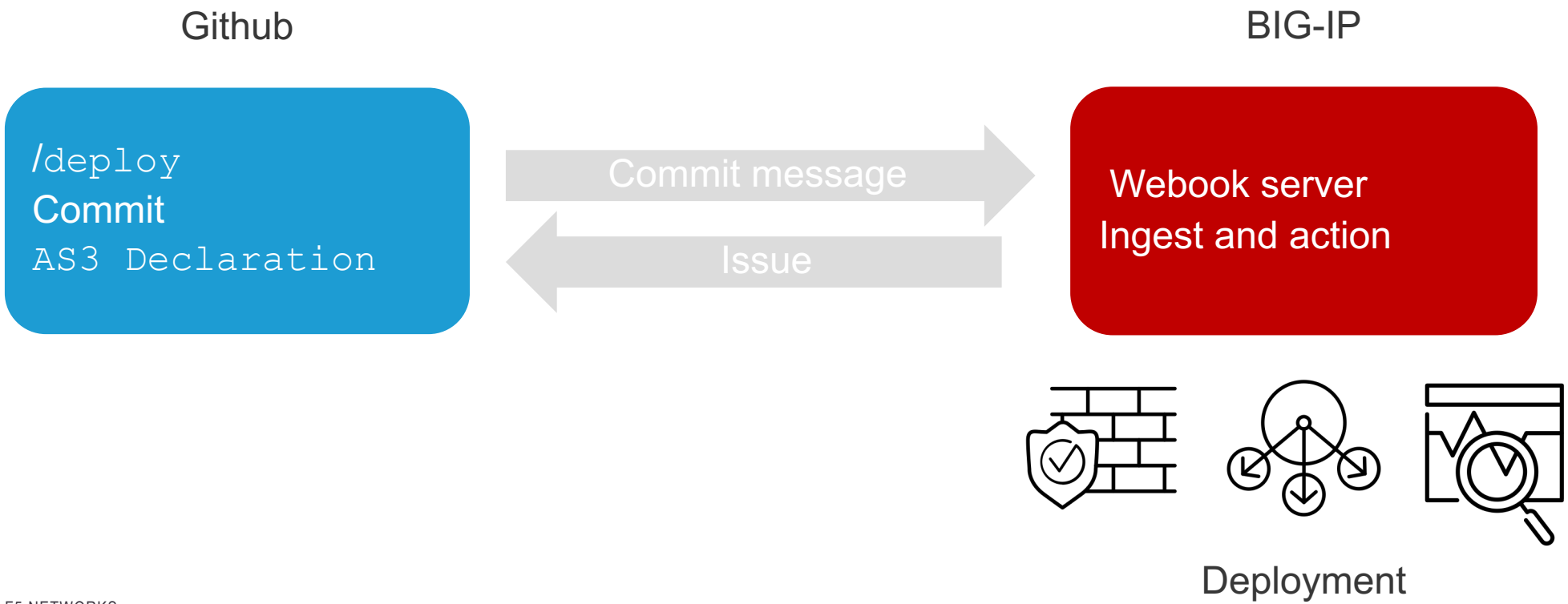
HTTPS frontend

Security Policy pulled from a URL

```
"Sample_02": {
      "class": "Tenant",
      "A1": {
        "class": "Application",
        "template": "https",
        "serviceMain": {
          "class": "Service_HTTPS",
          "virtualAddresses": [
            "192.0.2.11"
          ],
          "pool": "web_pool",
          "policyWAF": {
           "use": "My_ASM_Policy"
           }
         "serverTLS": "webtls"
        },
        "web_pool": {
          "class": "Pool",
          "loadBalancingMode": "predictive-node",
          "monitors": [
            "http"
          ],
          "members": [{
            "servicePort": 80,
            "serverAddresses": [
              "192.0.2.12",
              "192.0.2.13"
            ]
          }]
```

```
"My_ASM_Policy": {
        "class": "WAF_Policy",
        "url": "https://example.com/asm-policy.xml",
        "ignoreChanges": true
      }
```

With Git Webhook integration



Resources

Github.com/ f5networks

Clouddocs.f5.com