



F5 – ein sicherer Proxy für die Bereitstellung von Applikationen in Openshift

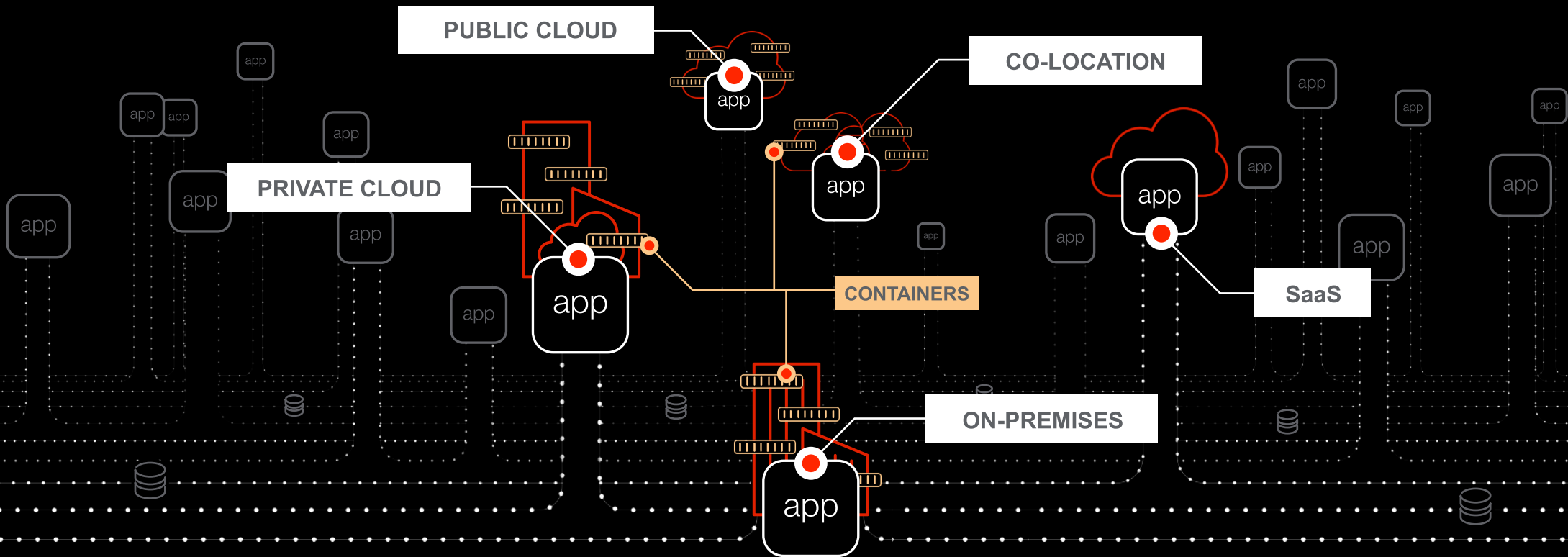
PRESENTED BY:

Roman Borovits, Sr. Systems Engineer, F5 Networks

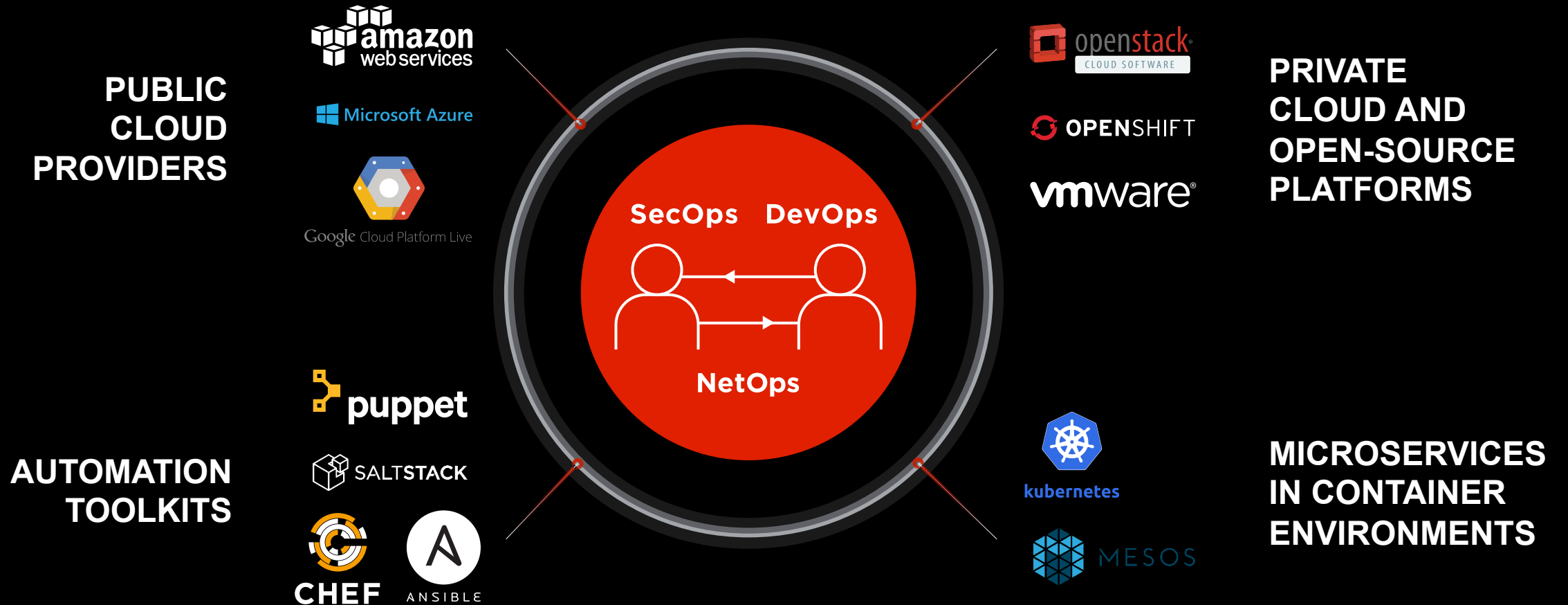
Digital Economy Makes Apps the Center of Your World



Now, Your Apps Are Everywhere



Turnkey App Services Integrating into Your Ecosystem



Automation is Key



Automation

helps reduce errors

makes Devs more independent – IaC

supports new methods and models – CI / CD

Increases speed – better time to market

BUT

does it increase **App - Security???**



Would You

Trade Security for Speed?



SECURITY

SPEED

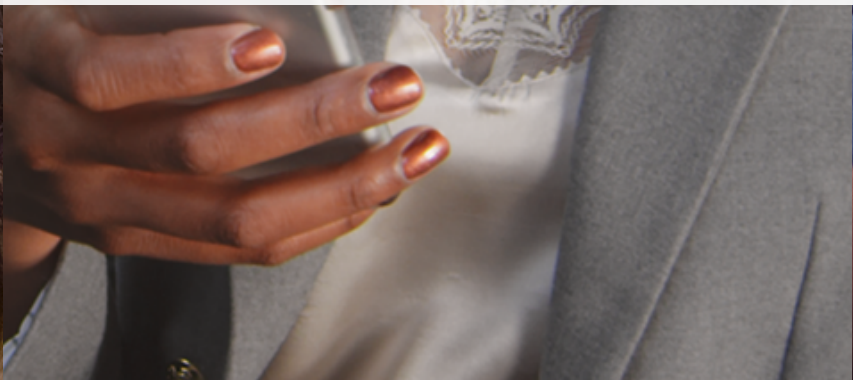
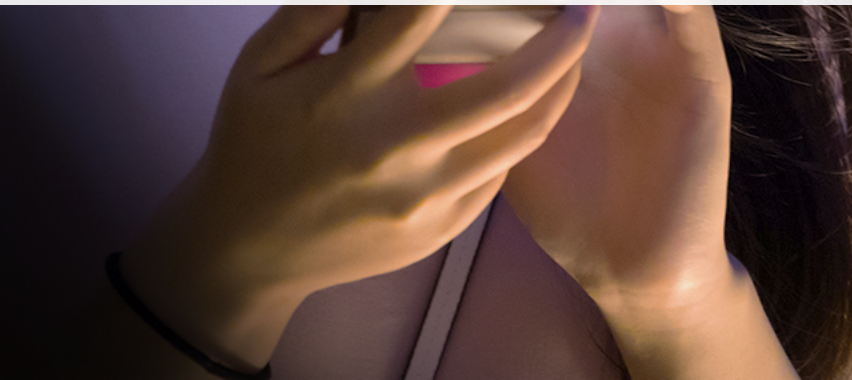


THINK APP SECURITY FIRST

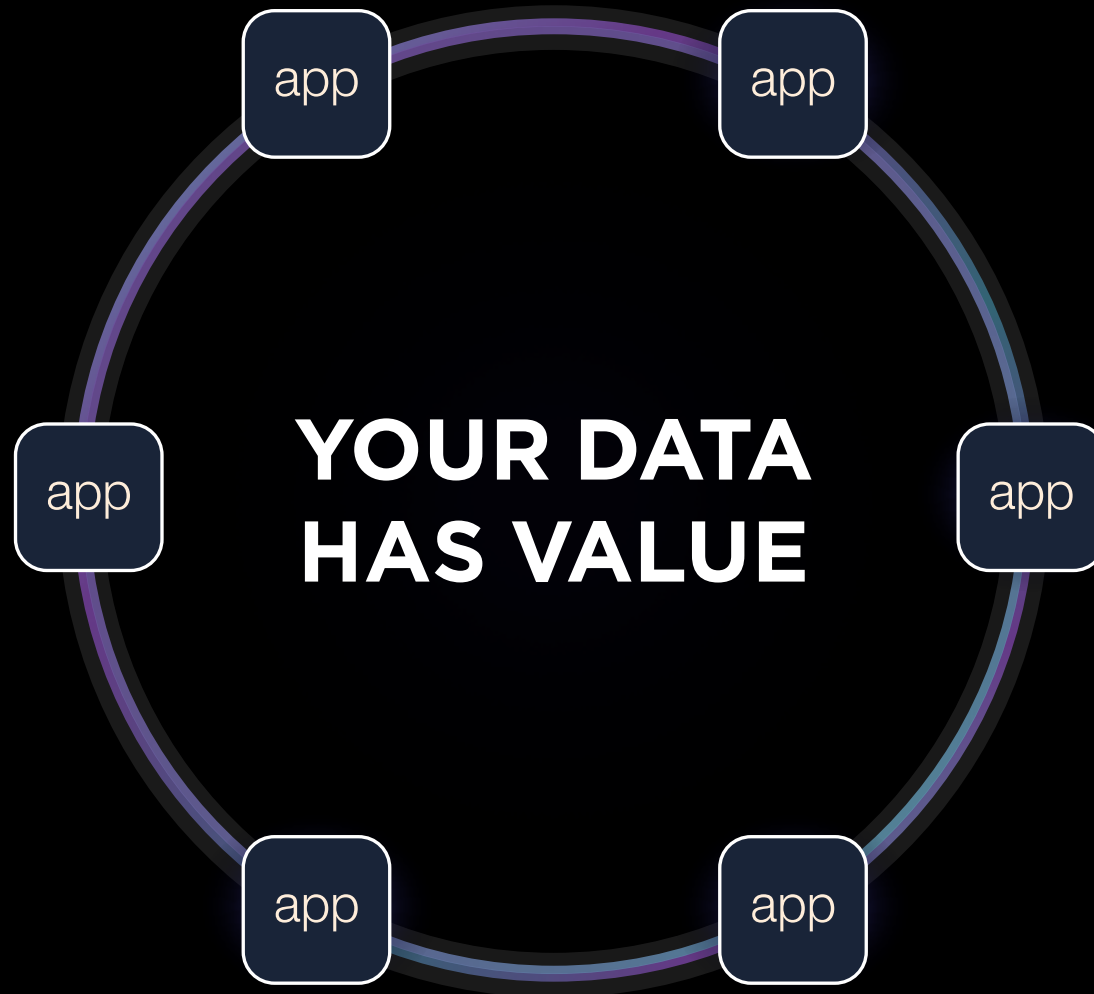
COMMERCE

BUSINESS

LIFESTYLE







App-Security is more than "just" secure code



Credential Stuffing

Bot Threats

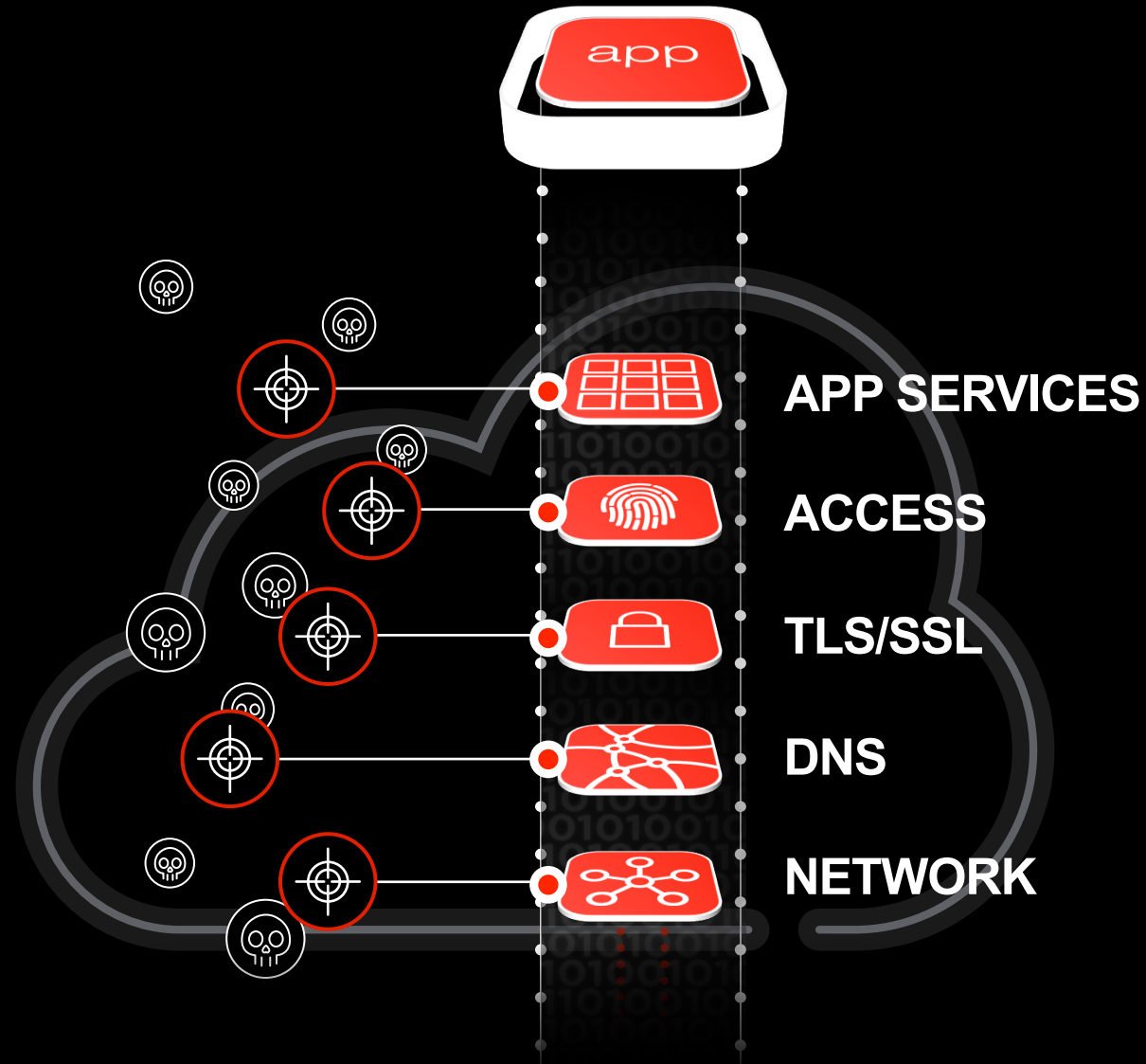
Credential steeling

3rd party vulnerabilities

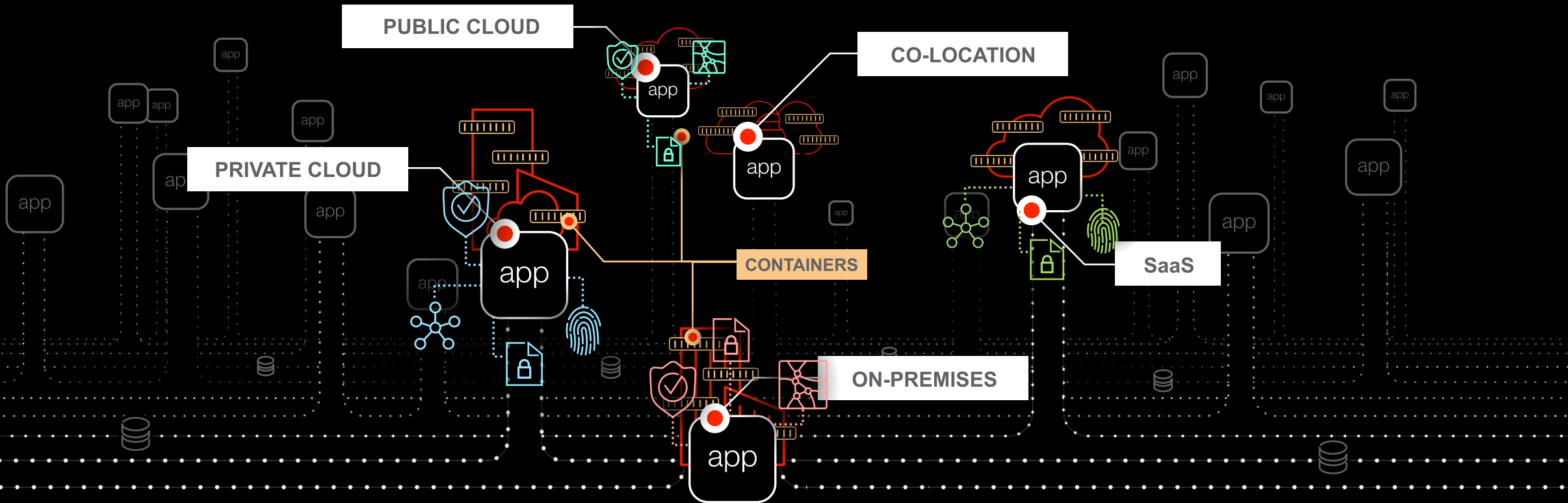
No influence by Developer!

Apps need App Services

App Services
protect your
data.



Challenging Deployment of Enterprise-grade Services



WAF



LOAD
BALANCING



DNS



ACCESS
CONTROL



SECURITY
POLICIES



Example – App Security in an Openshift Environment Security vs Speed



Container Orchestrator

Highly automated environment

App Deployments very easy

Brings a Proxy along

One Public IP serves hundreds of Apps

Container Orchestrator

App Deployment is done by App Owner / Dev

**Proxy – configured by CO – terminates SSL –
no insight for network / security infrastructure**

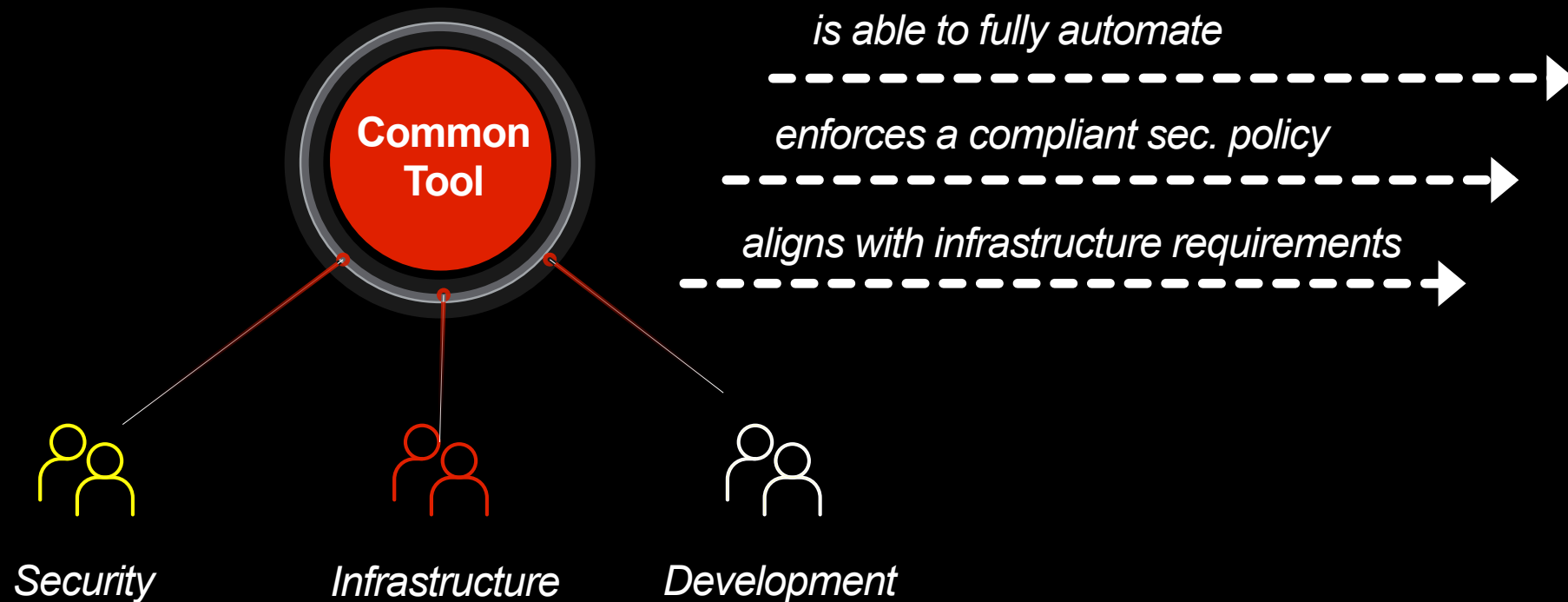
Host header / URI based routing

Security Infrastructure gets bypassed

A Real World Story



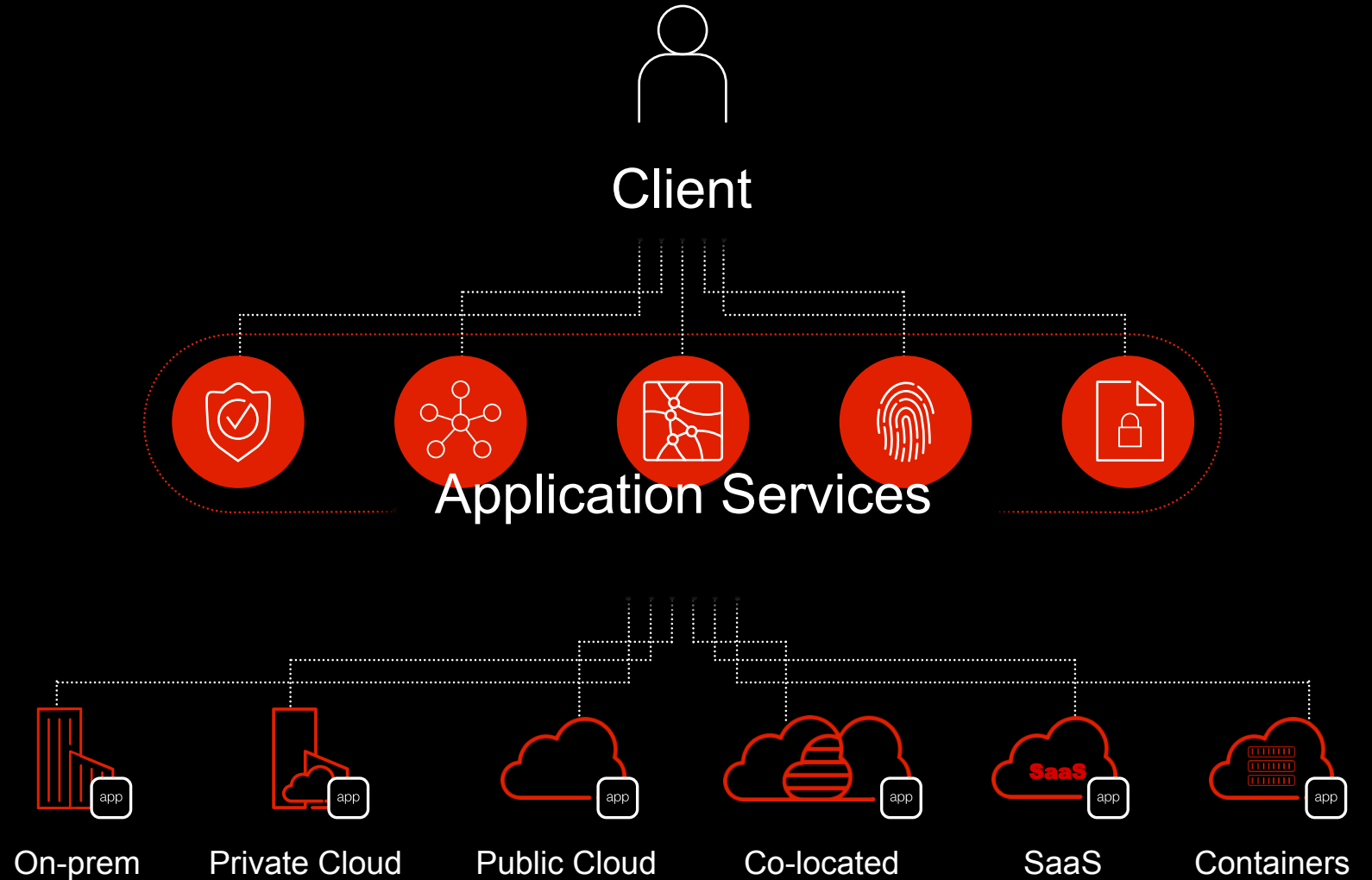
Solution



The F5 approach

The Power of a Proxy

```
"policyWAF": {  
  "bigip": "WAF-policy"  
}
```



Solution

Common Tool



Development

doesn't need to know about F5 – just formulates the desired state



Infrastructure

knows F5 – is able to align with other infrastructure with same methodology Devs are using



Security

purely focused on security – doesn't need to be involved when Dev deploys Apps



My application consists of:

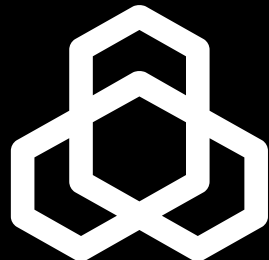
2 Apache Server +
MySQL

1 Frontend IP + LB

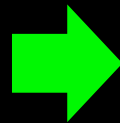
Port 443 and SSH
needs SSL encryption

Sensitive Data – needs
WAF Protection
Use WAF Policy XYZ

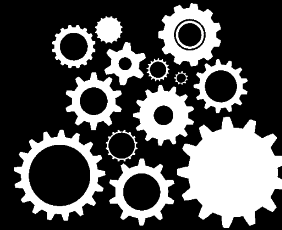
Application Owner
Application Owner



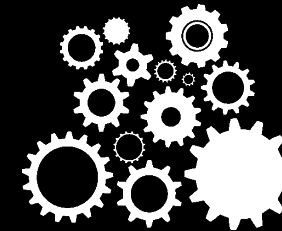
Service Portal



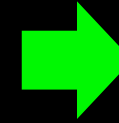
Orchestration



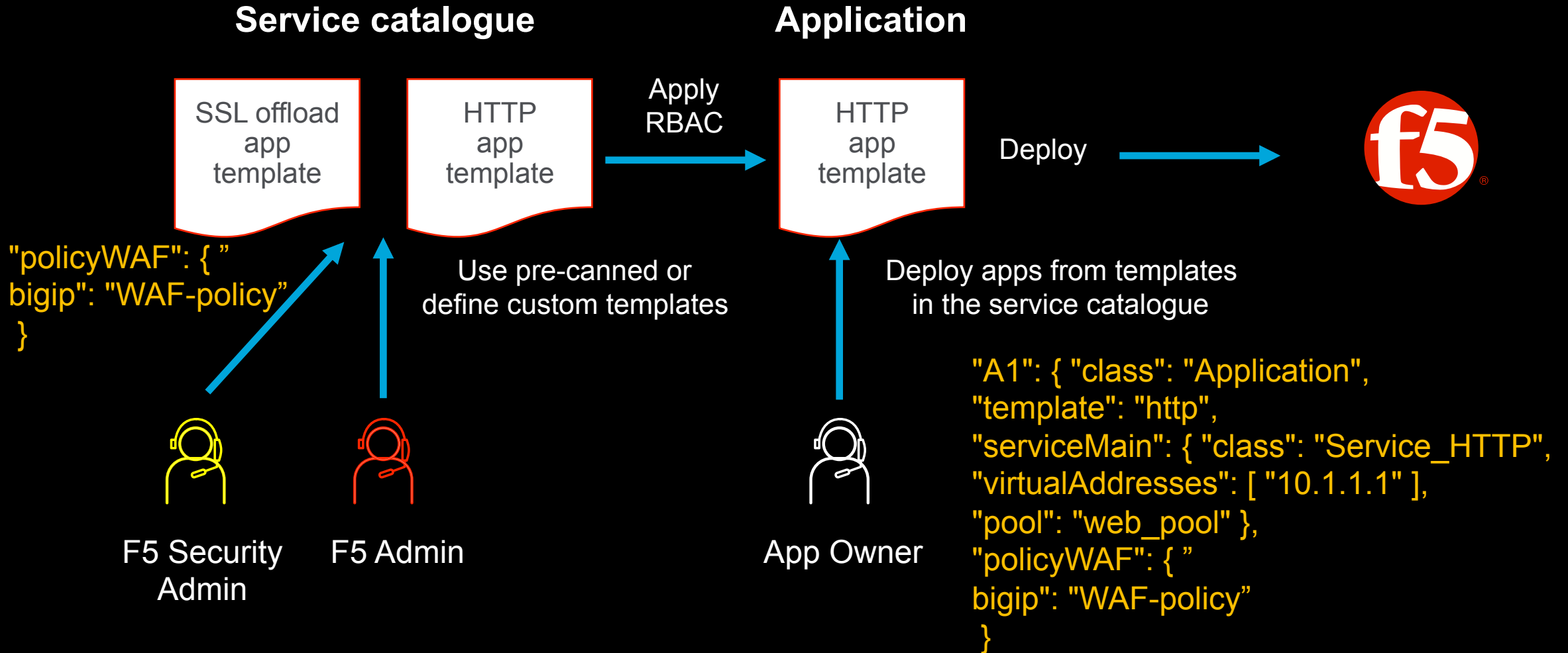
Automation



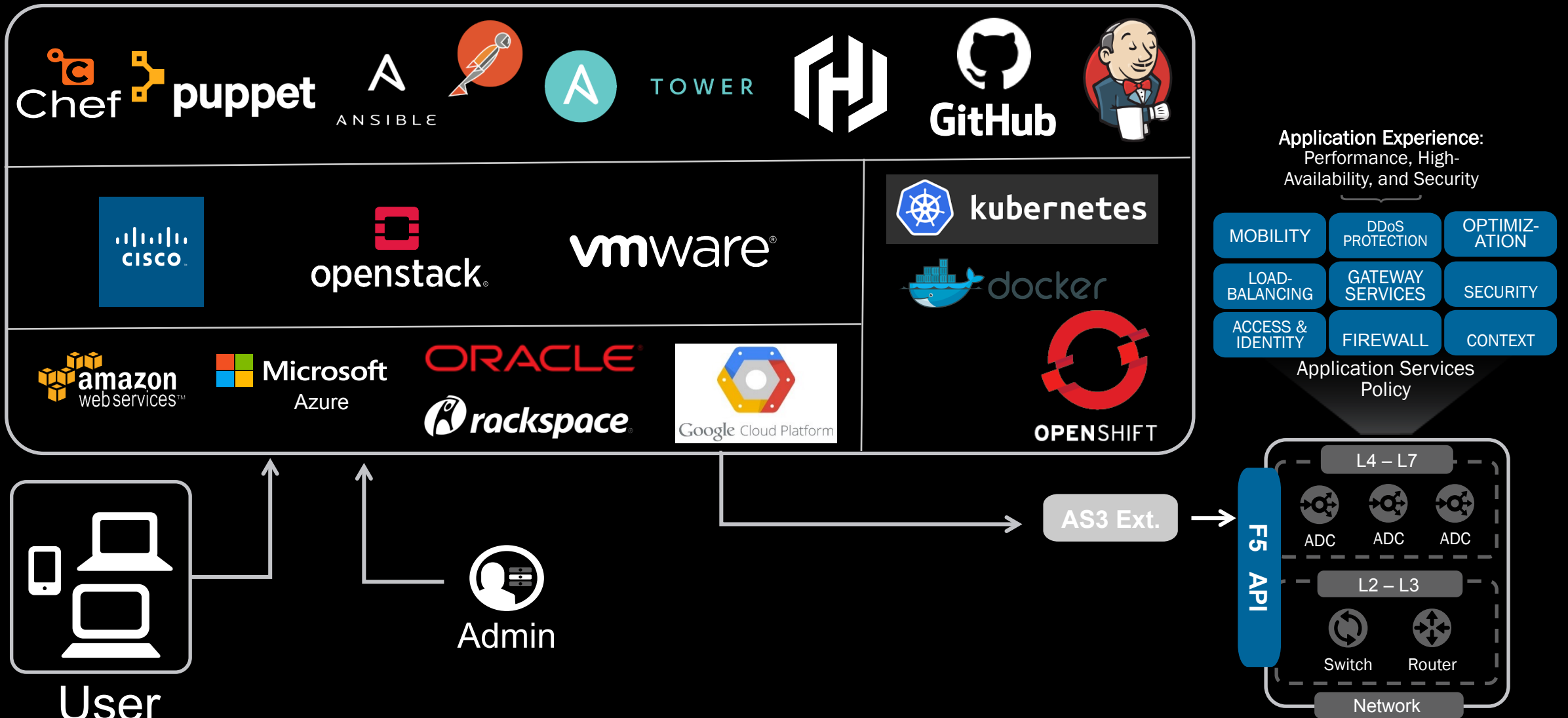
Automation



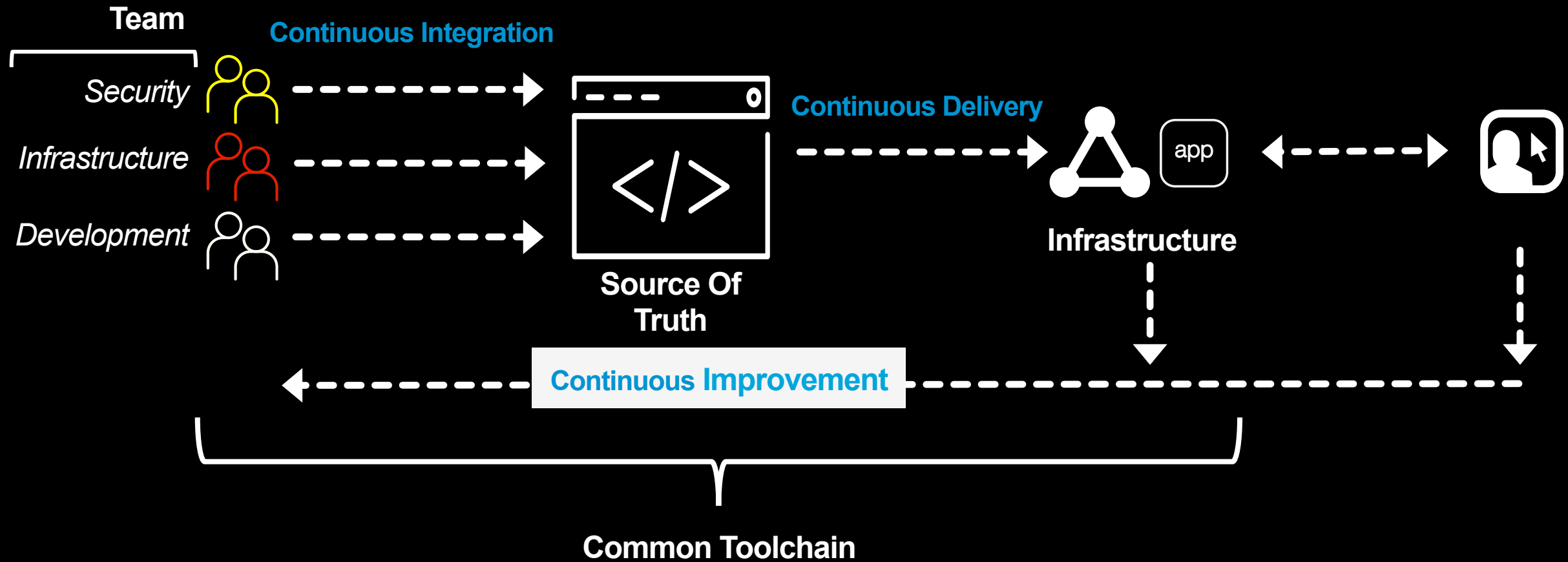
Application Templates – Service Catalogue



Declarative Orchestration / DevOps



F5 IaC Delivery Pipeline



You Don't Need To

Trade Security for Speed!

SECURITY

 SPEED

F5 Ressources



f5.com

f5.com/supernetops

clouddocs.f5.com

github.com/f5networks

aspenmesh.io



WE MAKE APPS



FASTER. SMARTER. SAFER.