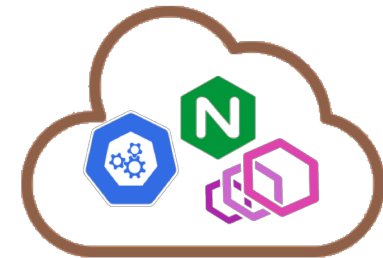




Using Cloud Native Technologies to Solve Complex
Application Security Challenges in Kubernetes
Deployments

Cequence Security: A Cloud Native Approach to Application Security

- Venture-backed start-up bringing much-needed innovation to application security
- Award-winning AI-powered security platform delivered as containers to protect web, mobile, API-based applications from bot attacks and vulnerability exploits
- Built on top of cloud native components like Kubernetes and Prometheus
- Plays well with existing ingress controllers and Sidecars like Envoy and NGINX, without needing to replace them
- Visit us at www.cequence.ai



CLOUD NATIVE

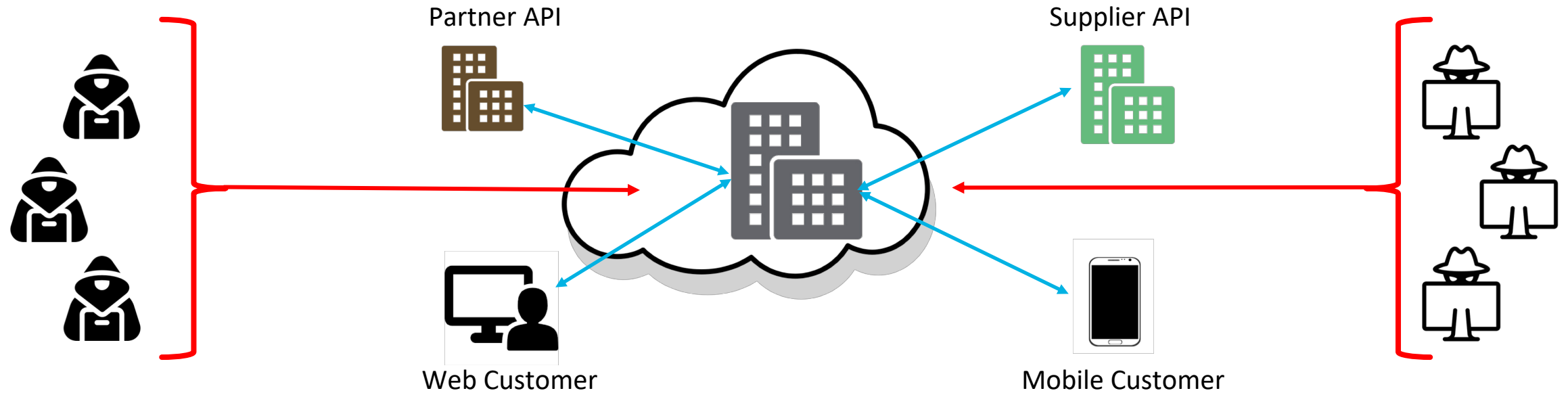


PUBLIC CLOUD



DATA CENTER

Your Public Facing Applications Are Attack Targets



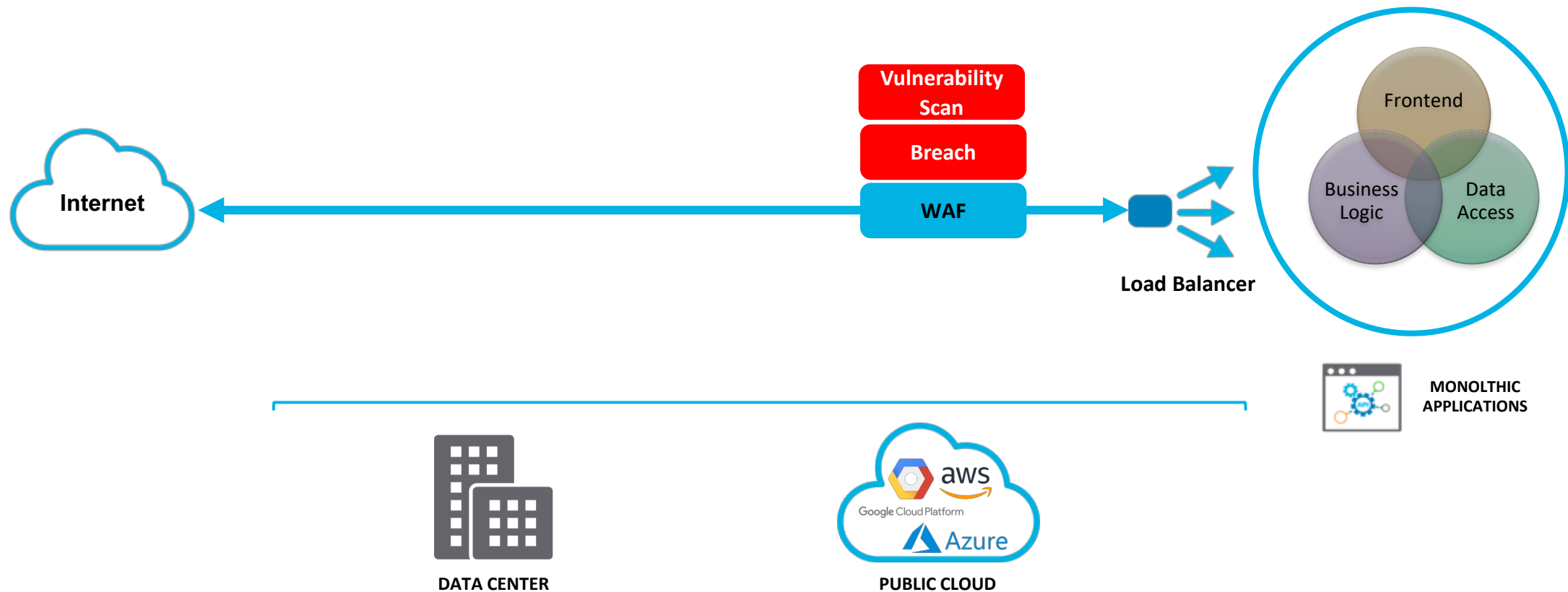
Business Logic Abuse

- Highly automated
- Content appears legitimate
- Difficult to detect and block

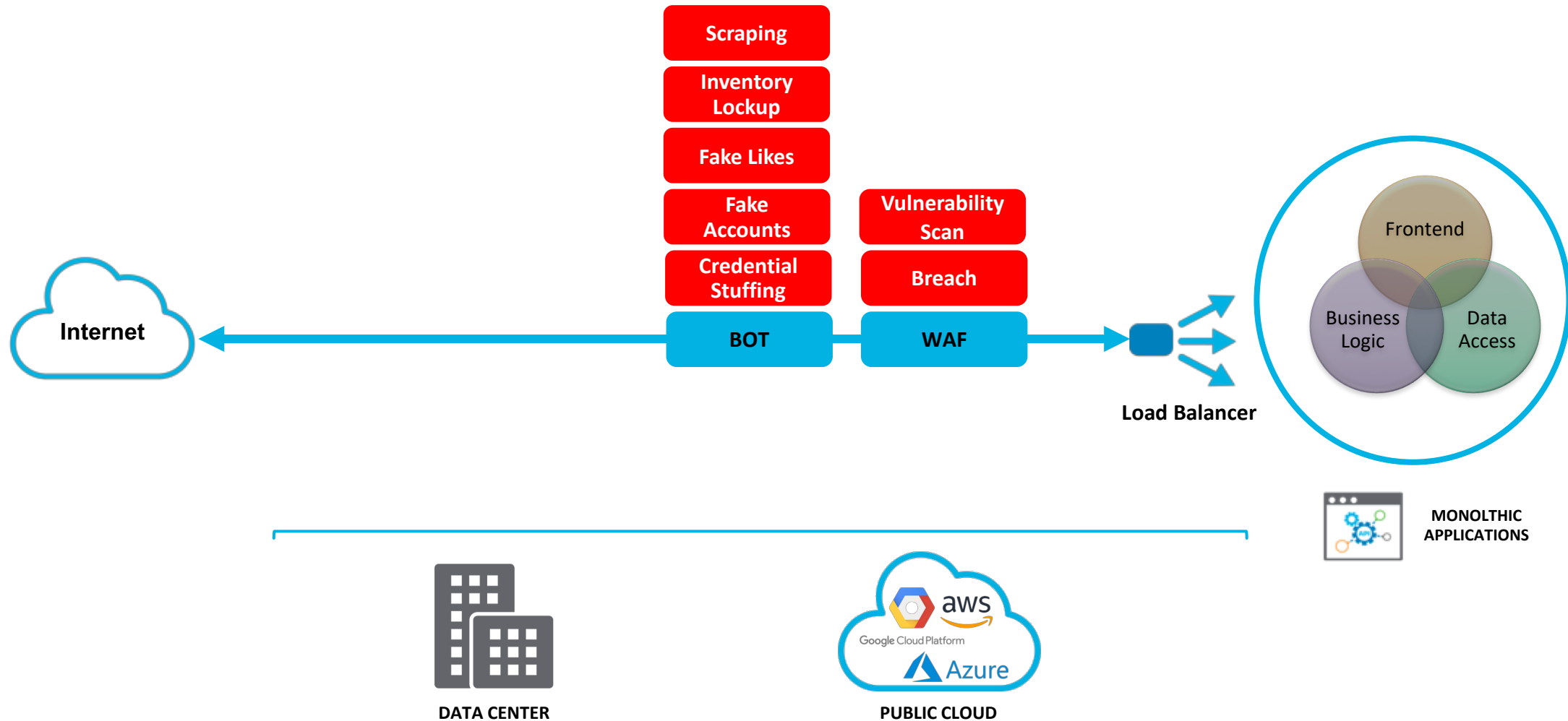
Vulnerability Exploits

- Highly targeted
- Exploiting app vulnerabilities
- Both known and unknown

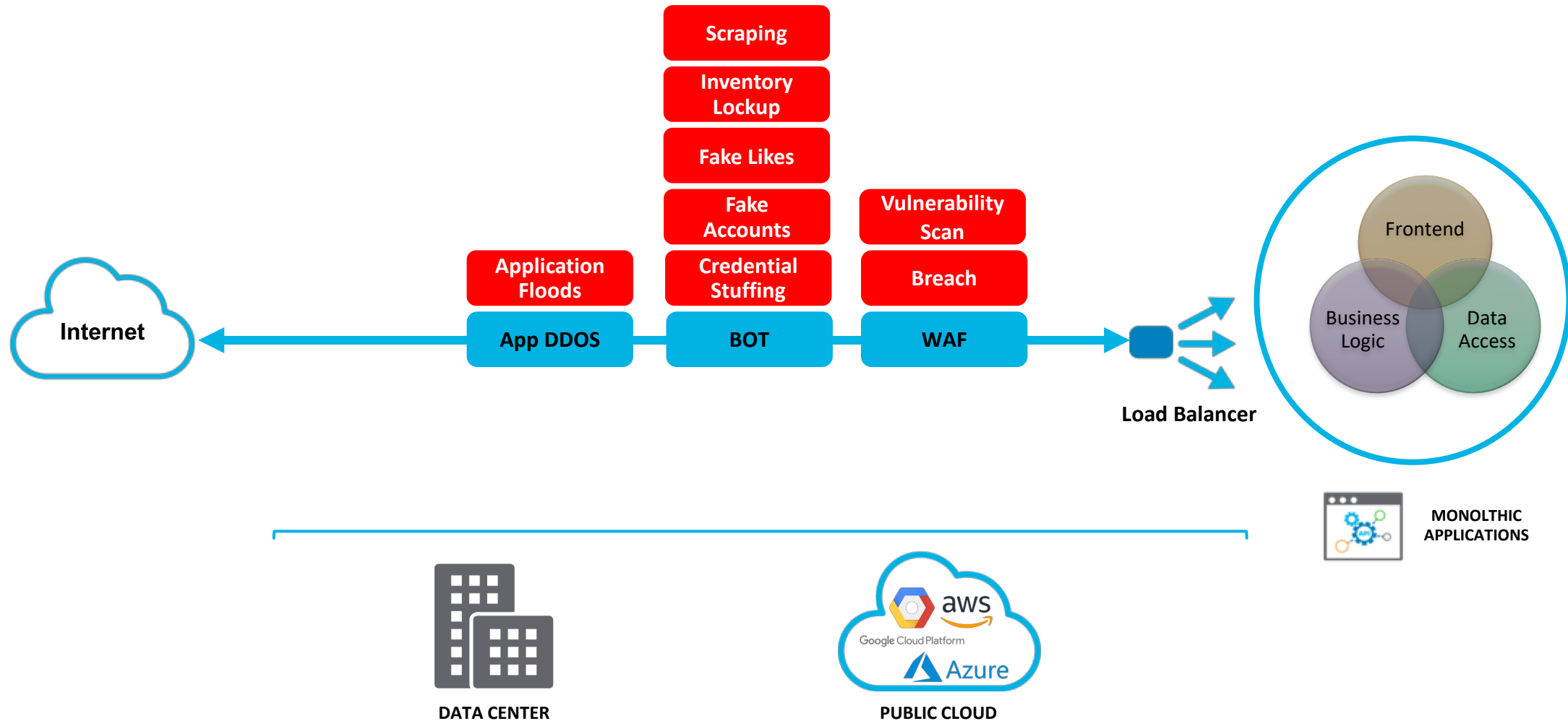
Runtime Application Protection for Monolithic Applications



Runtime Application Protection for Monolithic Applications



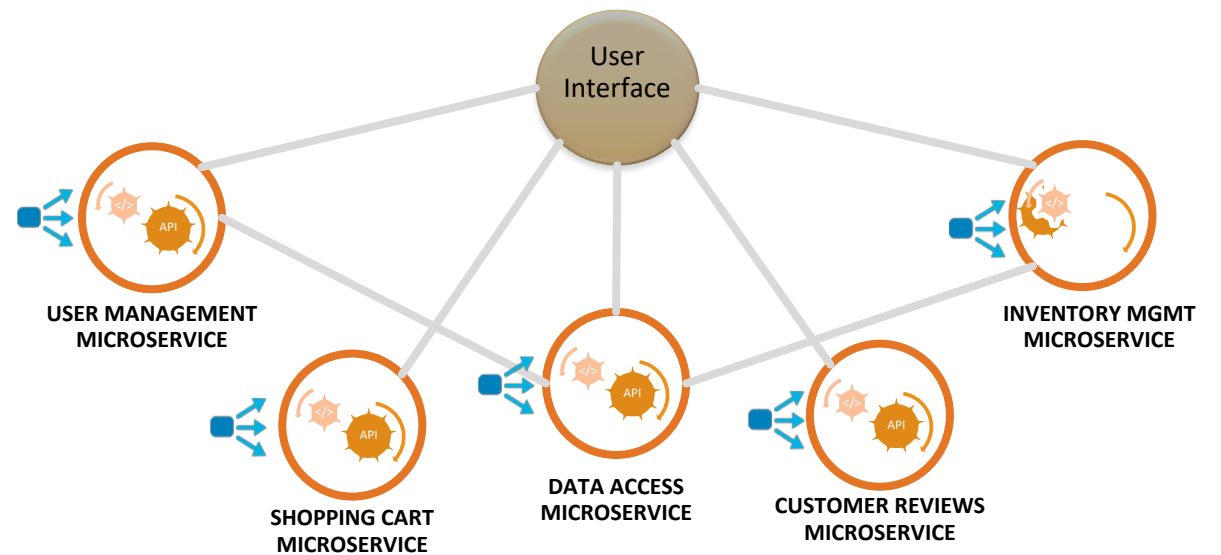
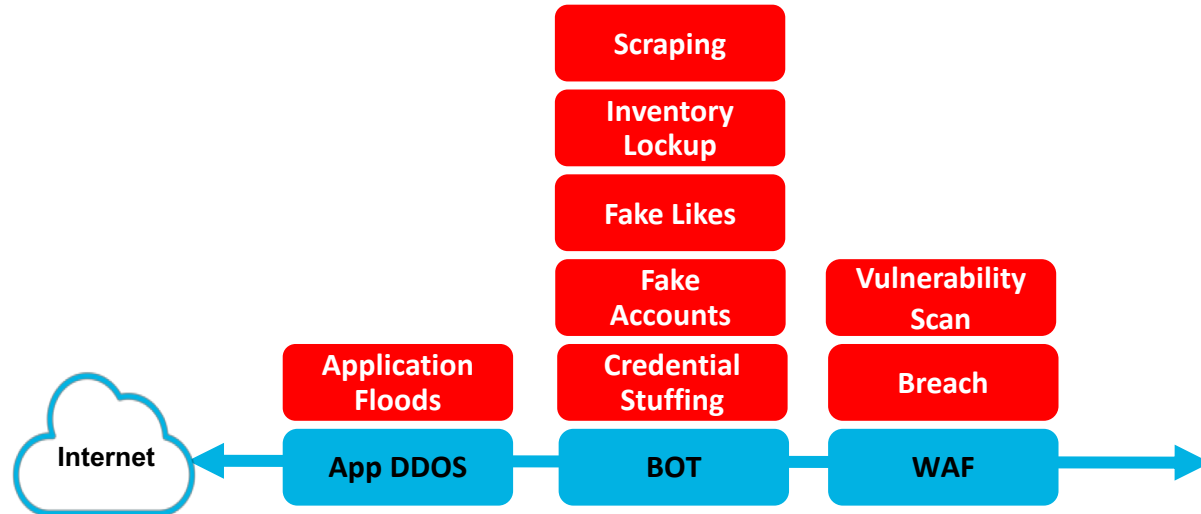
Runtime Application Protection for Monolithic Applications



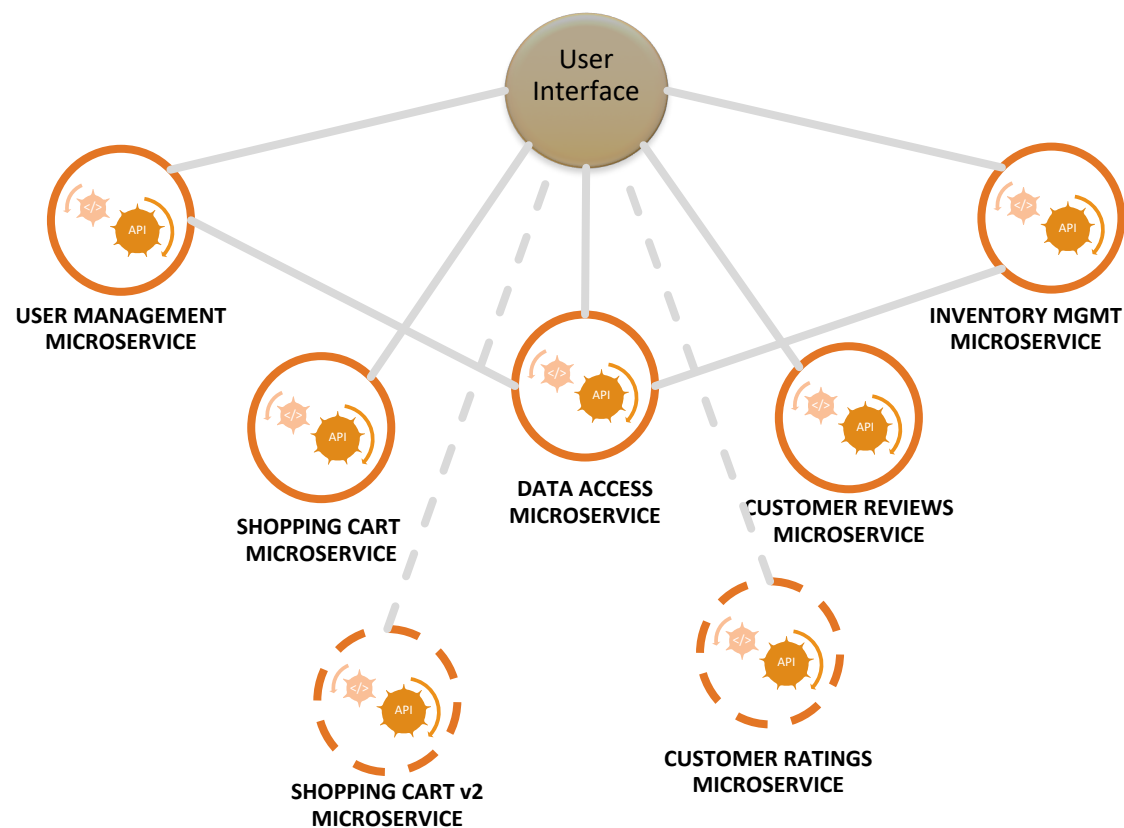
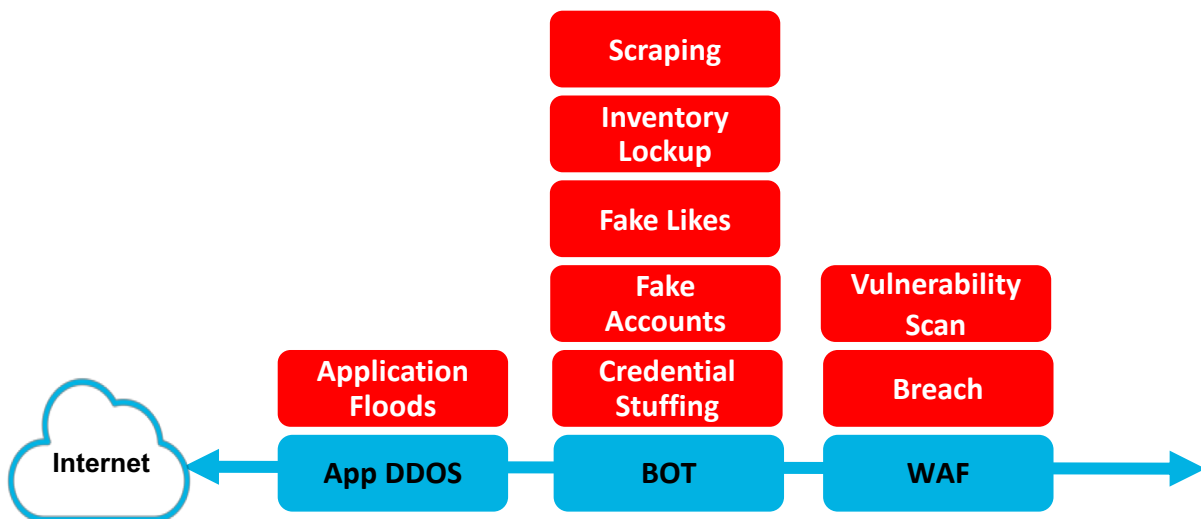
Monolith to Microservices



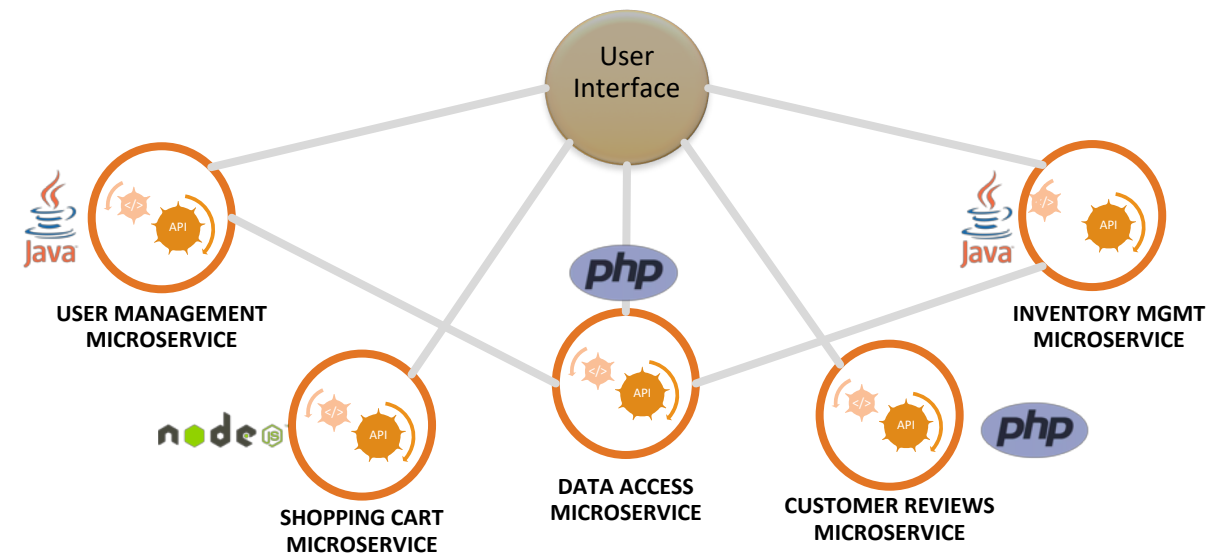
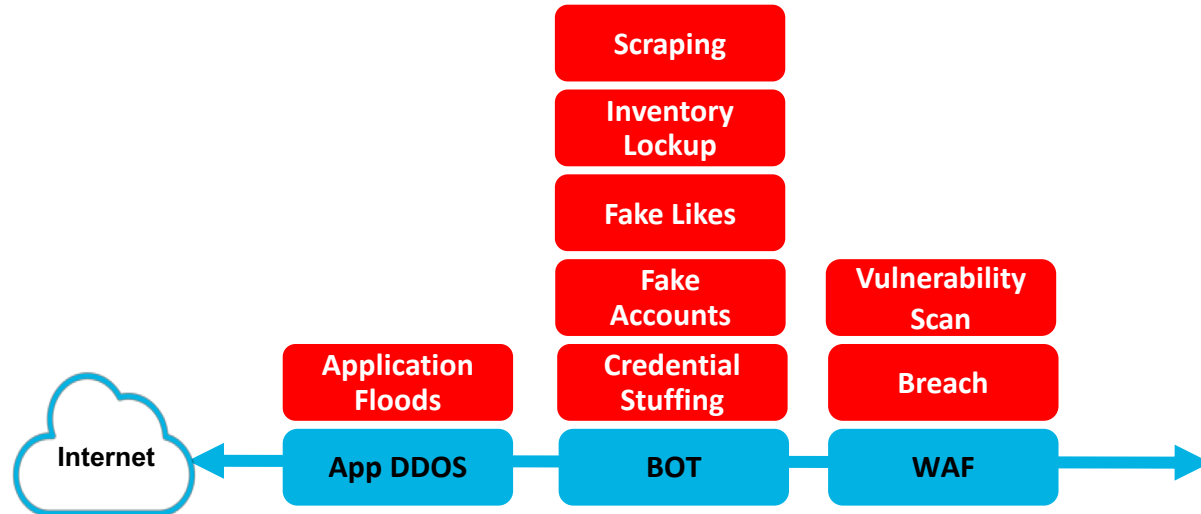
New Security Challenge: Increased Entry Points



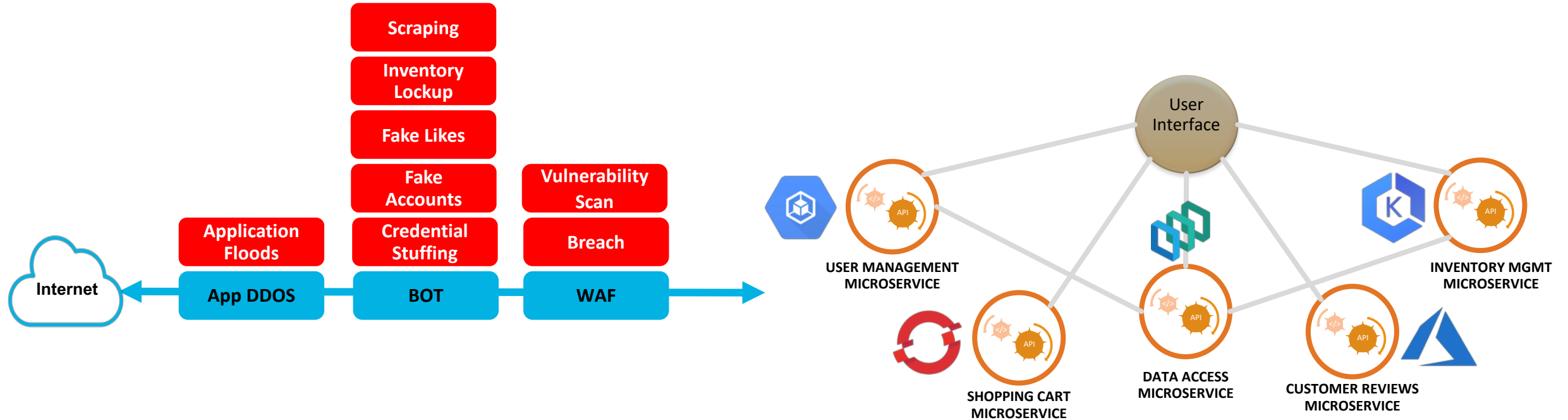
New Security Challenge: Keep up with DevOps Pace



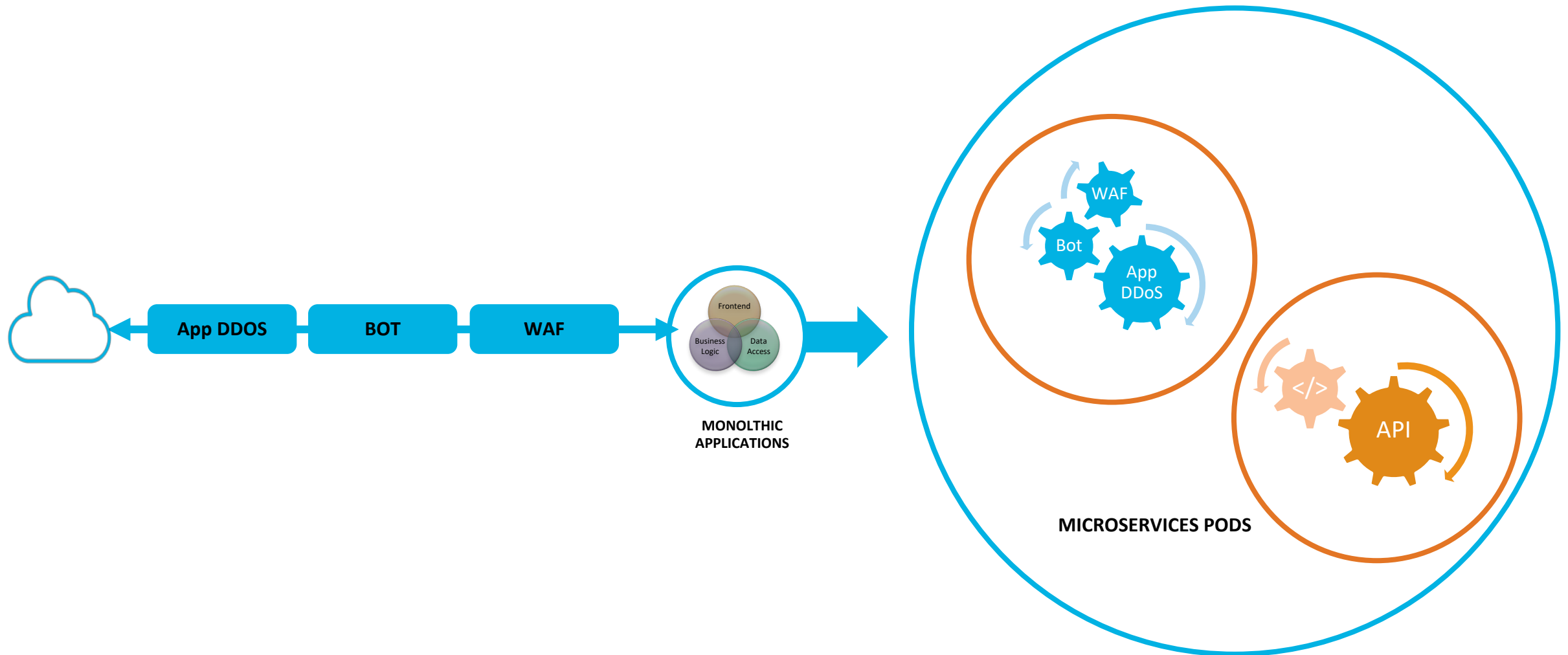
New Security Challenge: Heterogeneous Environments



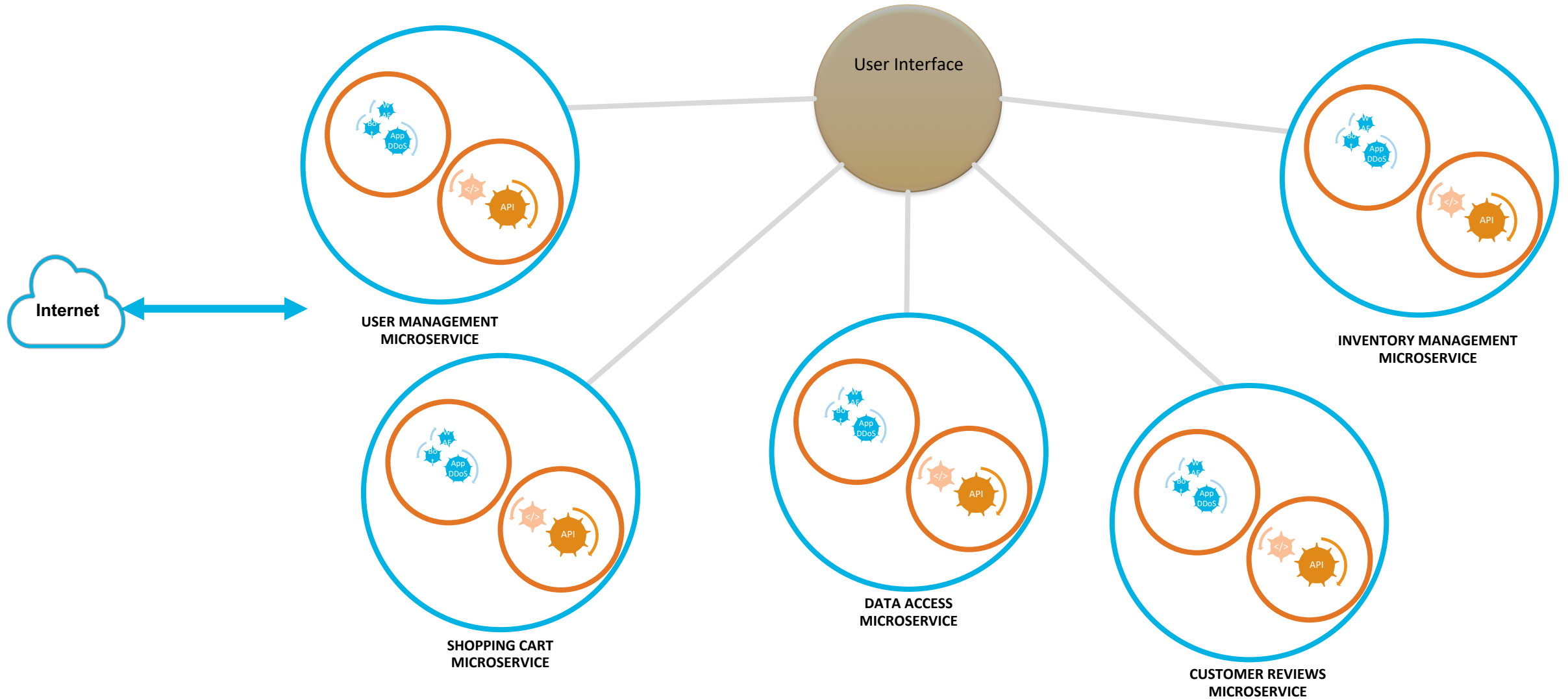
New Security Challenge: Multi-Cloud Environments



New Approach: From Perimeter Defense to Microservices Defense



Runtime Application Protection for Microservices



Must-Haves in Runtime Application Protection for Microservices



SIMPLE

RELEVANT

EFFECTIVE

- Designed to **work with existing applications** without making modifications
- **Non-invasive:** no agents, SDK, or JavaScript
- **Microservices based protection** for protecting other microservices
- Co-exist and not replace with existing **Ingress Controllers and Sidecars**
- **Single pane of glass** for all microservices
- Protection **moves with the microservices to any cloud**

New Security Stack for Microservices

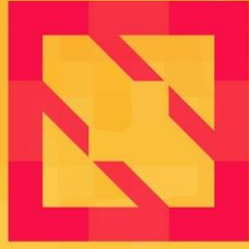
Runtime Application Protection (WAF, Bot & Application DDoS)

Container Security & Compliance

Infrastructure Security



KubeCon



CloudNativeCon

North America 2019

Nov. 18 - 21, 2019
San Diego, CA

kubecon.io



Thank you!