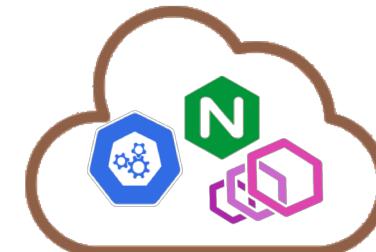




Using Cloud Native Technologies to Solve Complex  
Application Security Challenges in Kubernetes  
Deployments

# Cequence Security: A Cloud Native Approach to Application Security

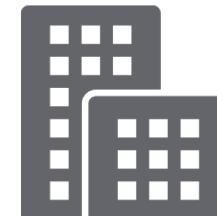
- Venture-backed start-up bringing much-needed innovation to application security
- Award-winning AI-powered security platform delivered as containers to protect web, mobile, API-based applications from bot attacks and vulnerability exploits
- Built on top of cloud native components like Kubernetes and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



CLOUD NATIVE

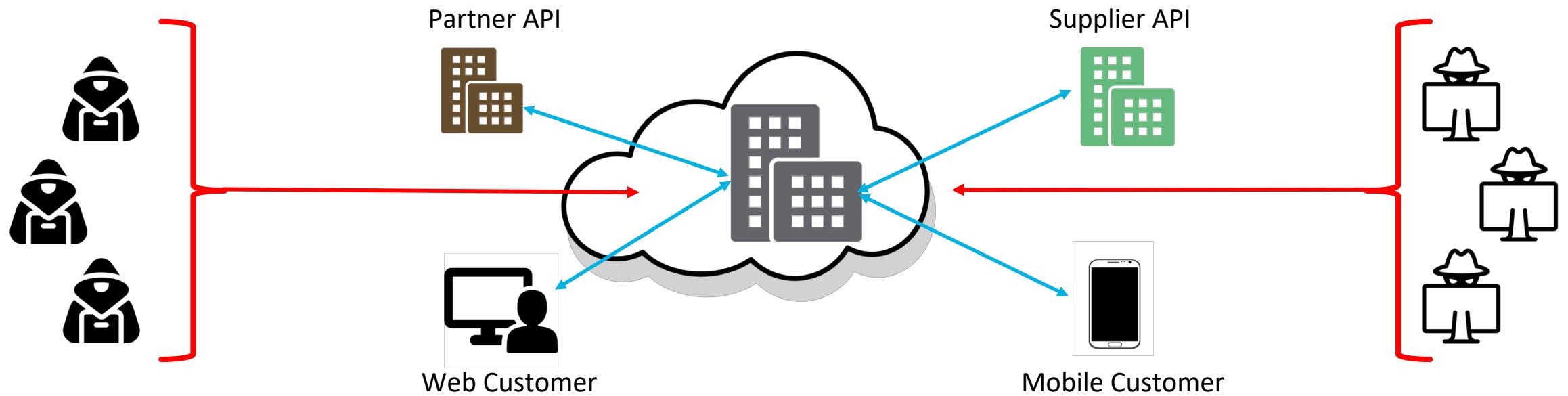


PUBLIC CLOUD



DATA CENTER

# Your Public Facing Applications Are Attack Targets



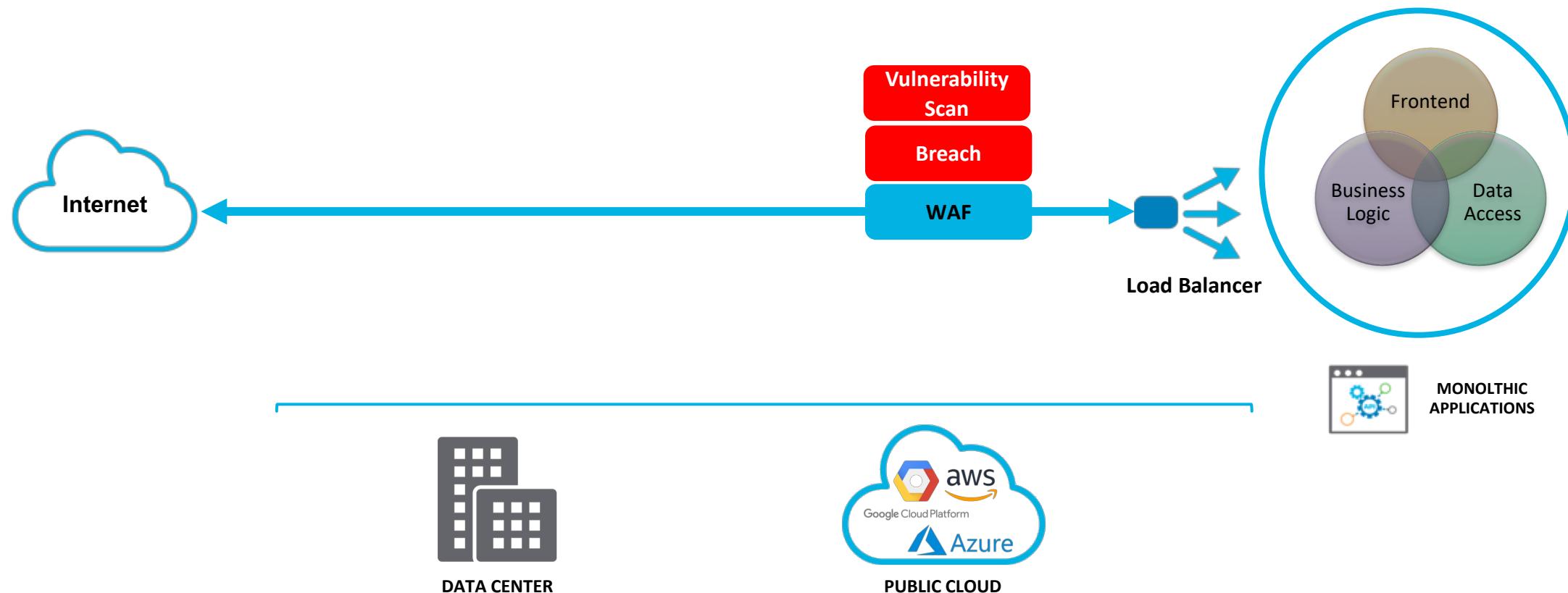
## Business Logic Abuse

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

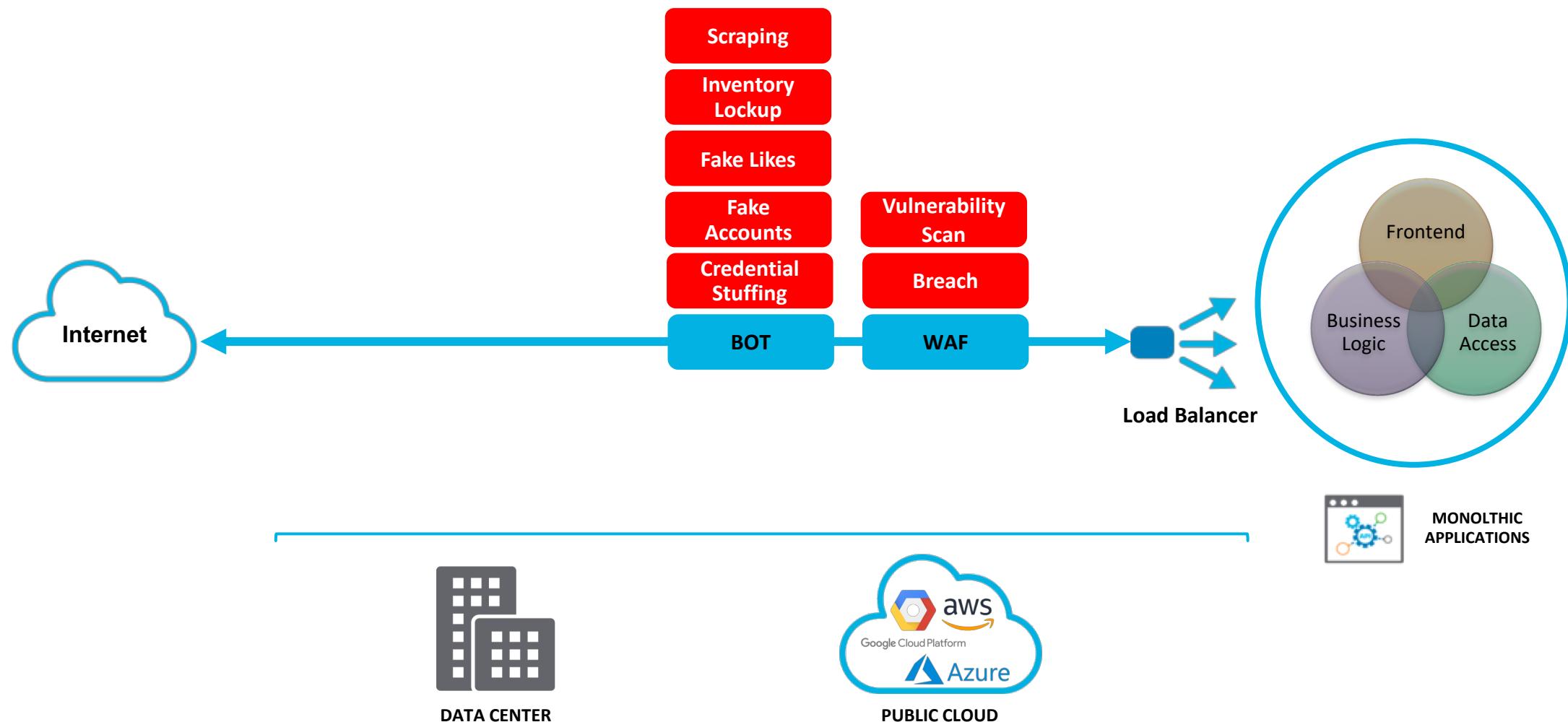
## Vulnerability Exploits

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

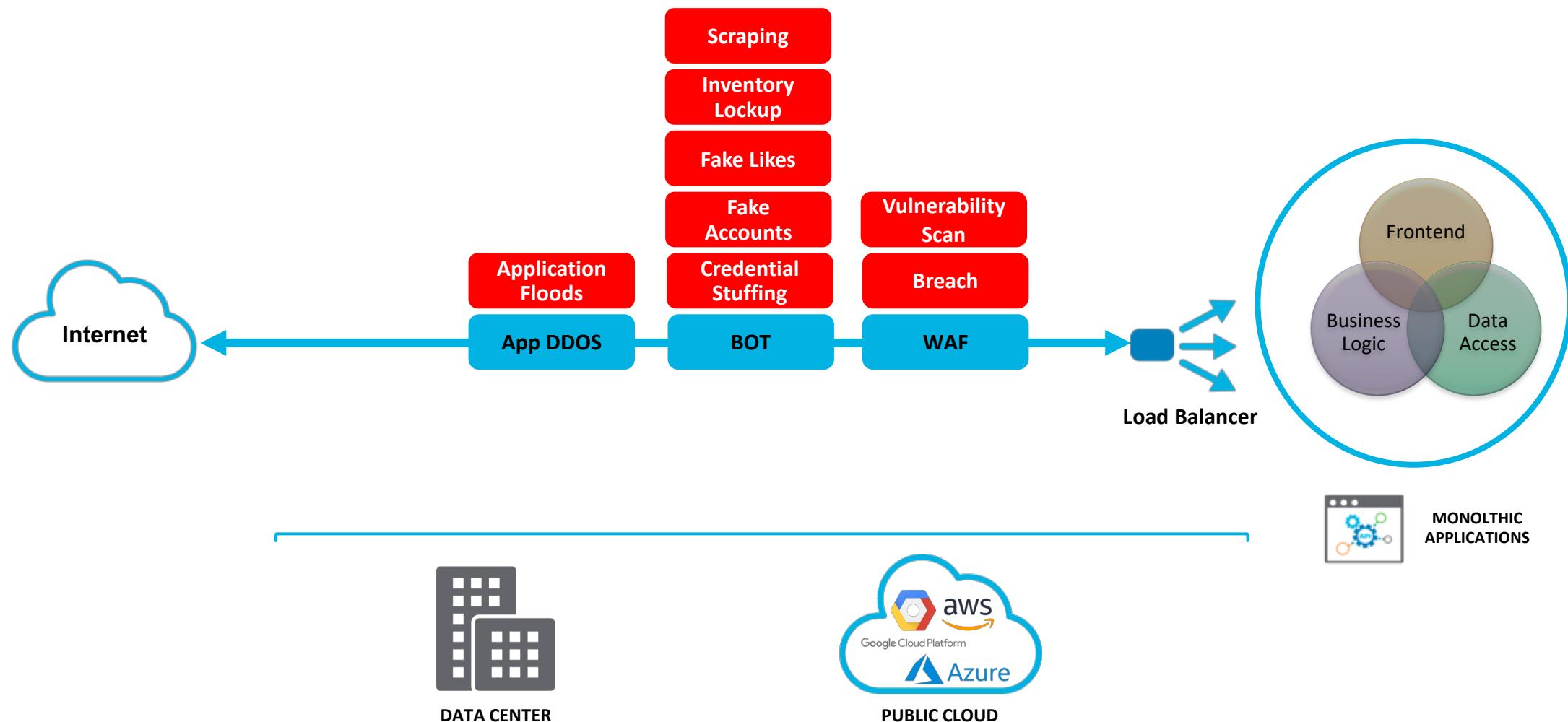
# Runtime Application Protection for Monolithic Applications



# Runtime Application Protection for Monolithic Applications



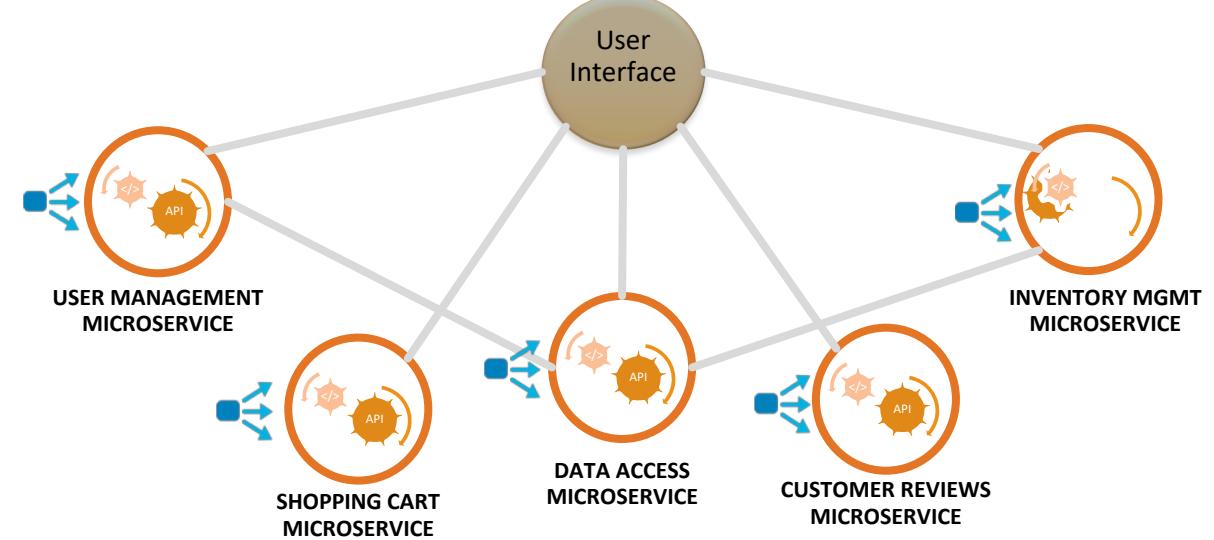
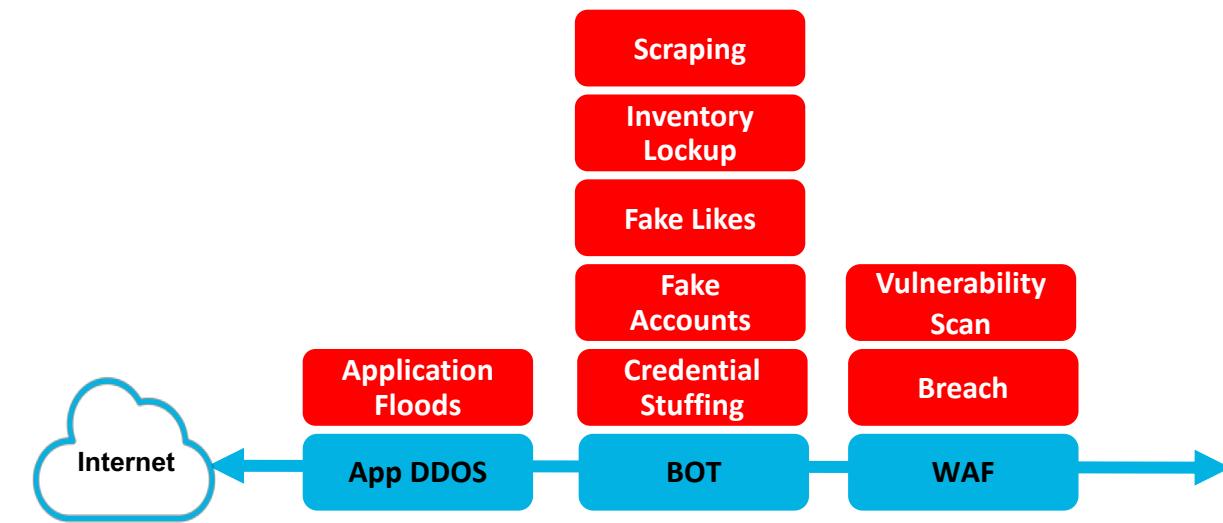
# Runtime Application Protection for Monolithic Applications



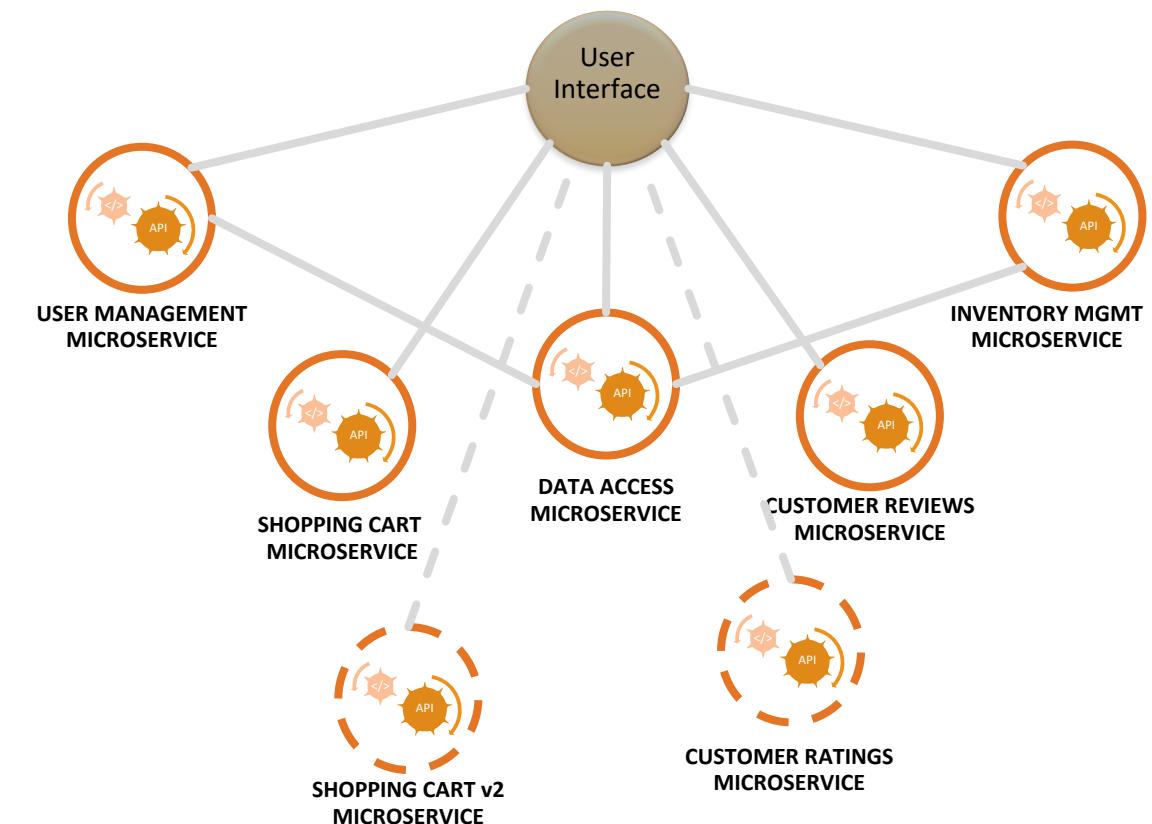
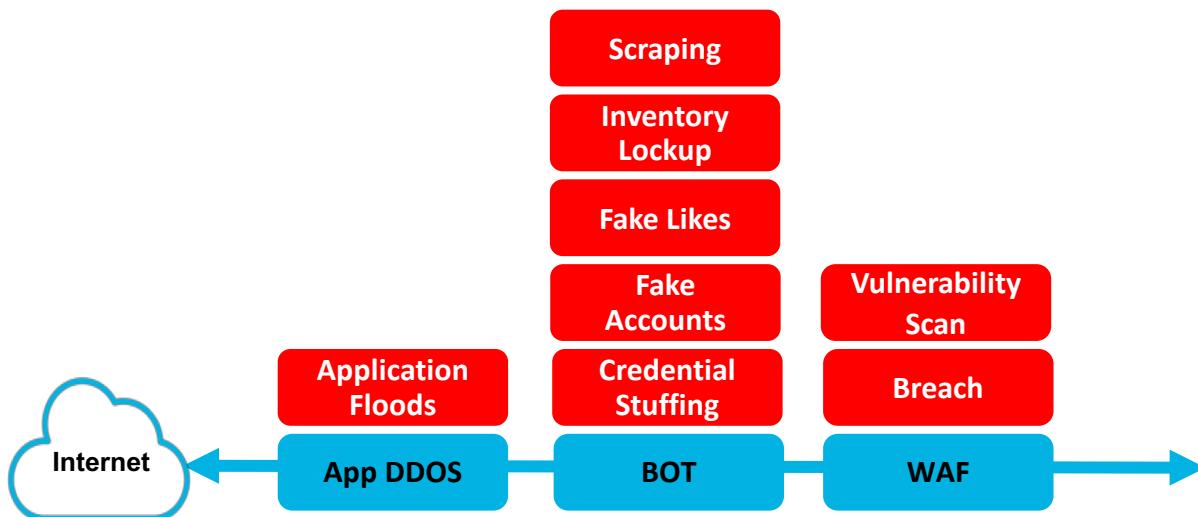
# Monolith to Microservices



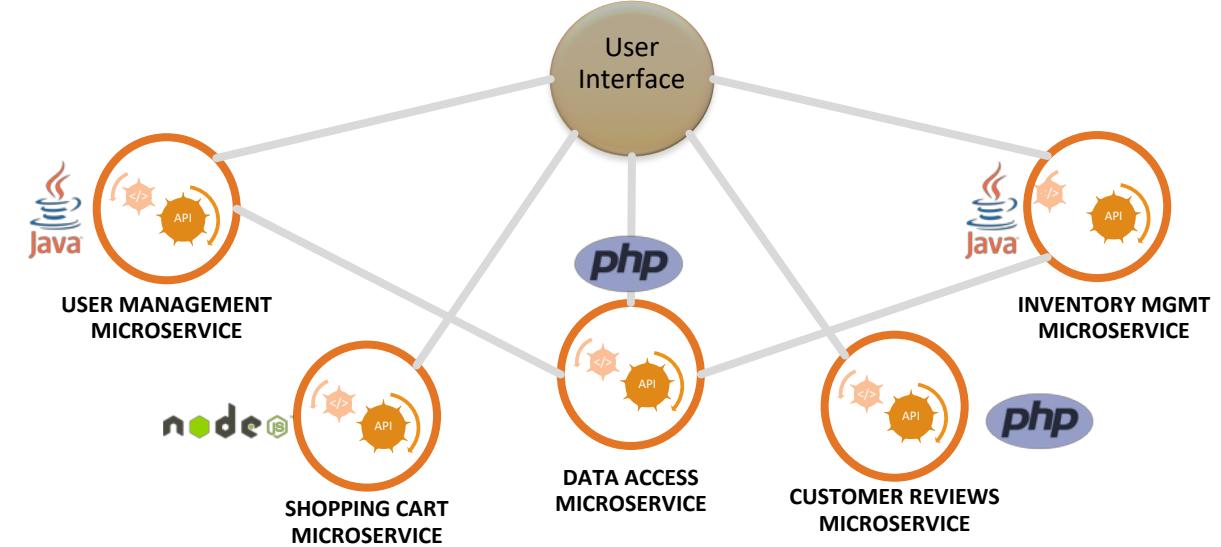
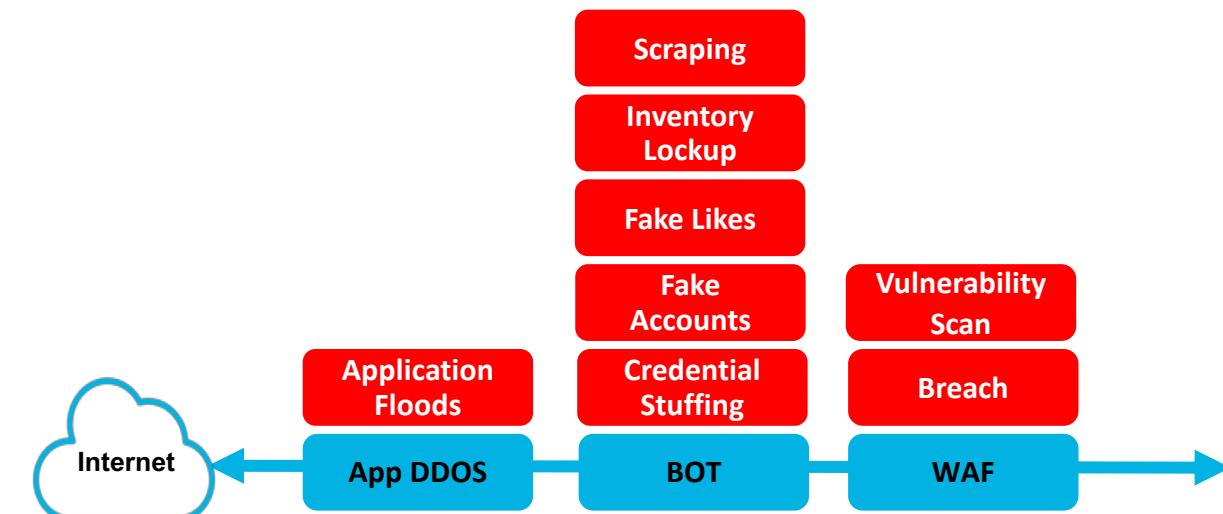
# New Security Challenge: Increased Entry Points



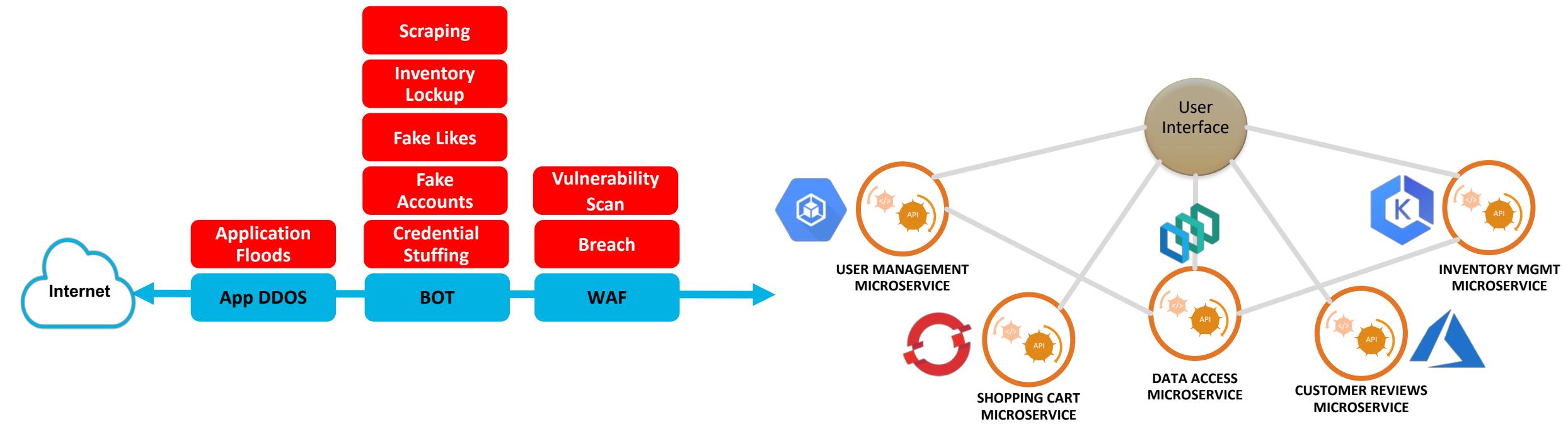
# New Security Challenge: Keep up with DevOps Pace



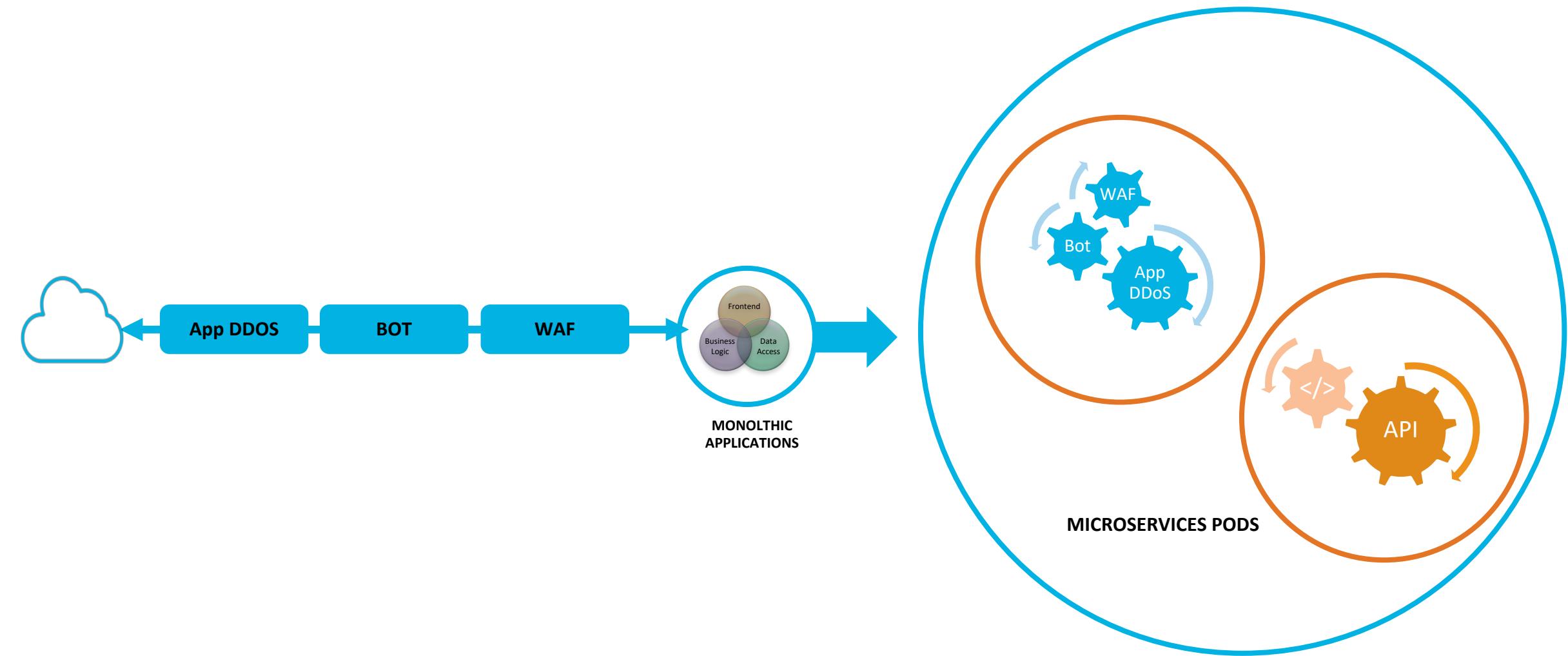
# New Security Challenge: Heterogeneous Environments



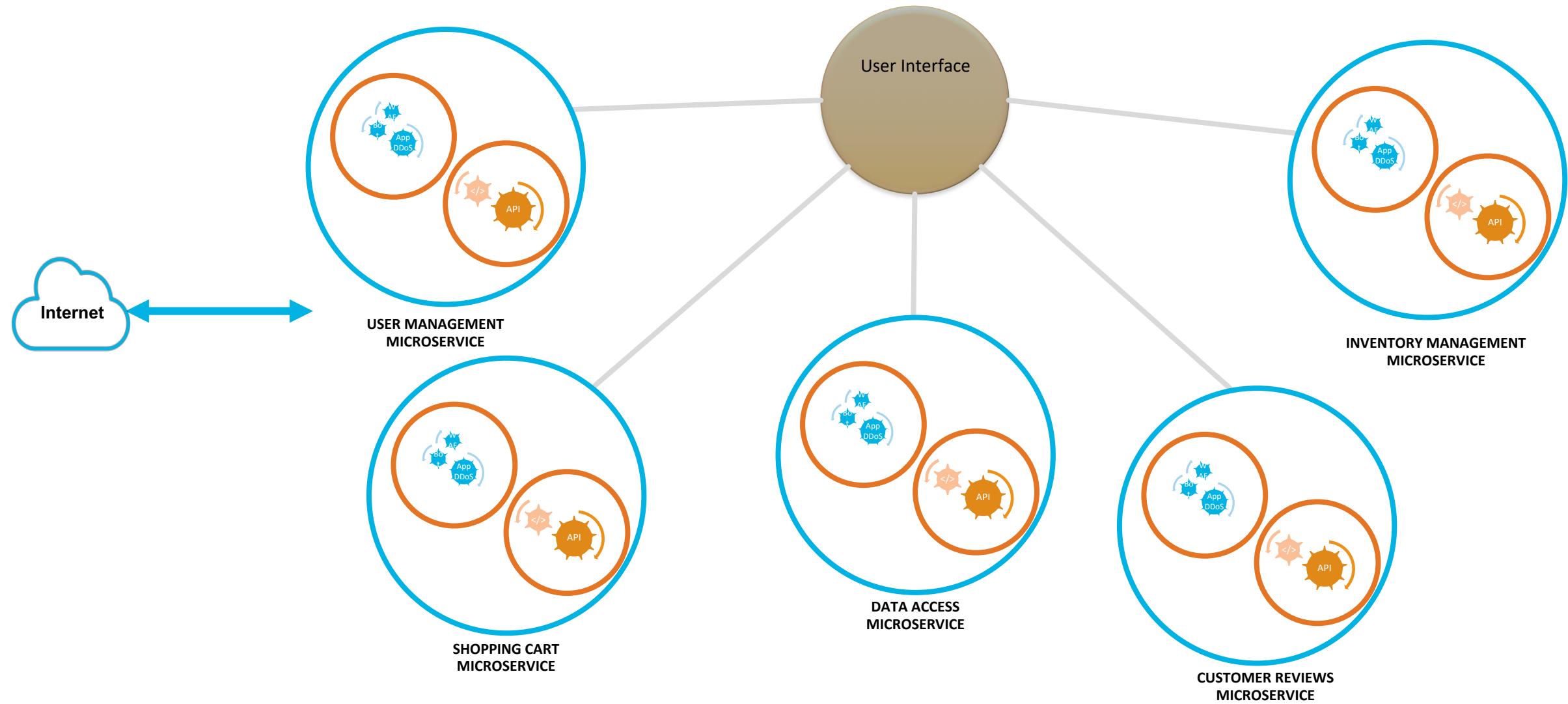
# New Security Challenge: Multi-Cloud Environments



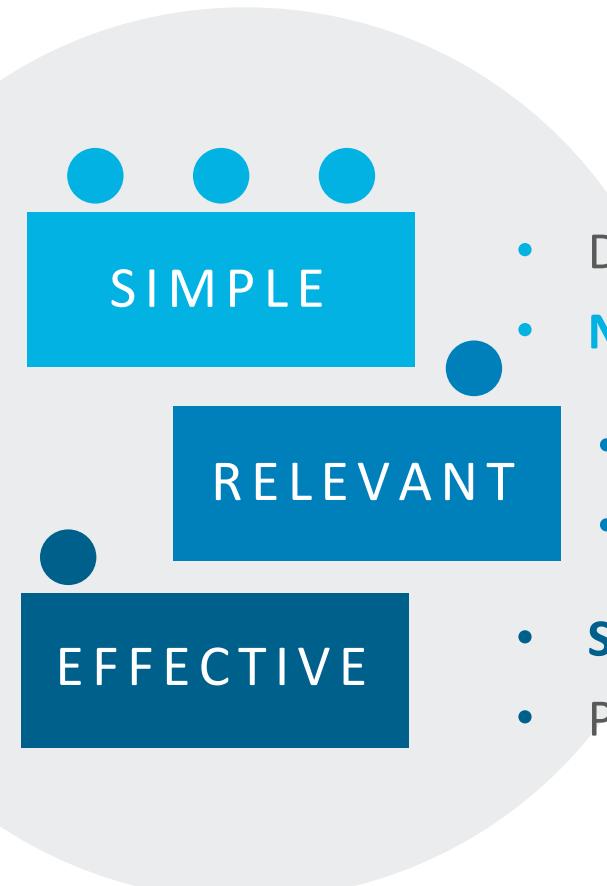
# New Approach: From Perimeter Defense to Microservices Defense



# Runtime Application Protection for Microservices

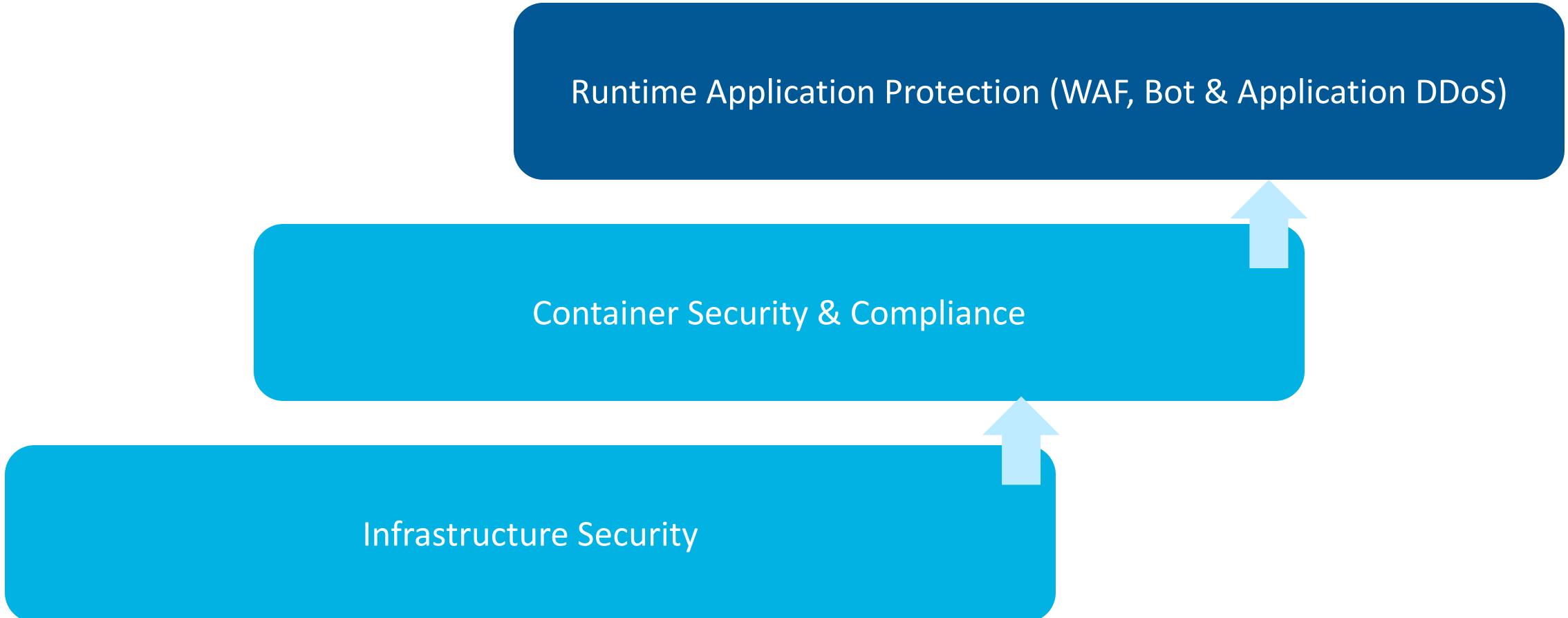


# Must-Haves in Runtime Application Protection for Microservices



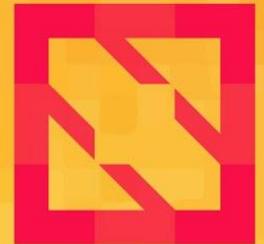
- Designed to **work with existing applications** without making modifications
- **Non-invasive:** no agents, SDK, or JavaScript
  - **Microservices based protection** for protecting other microservices
  - Co-exist and not replace with existing **Ingress Controllers and Sidecars**
- **Single pane of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

# New Security Stack for Microservices





KubeCon



CloudNativeCon

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North America 2019

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Nov. 18 - 21, 2019  
San Diego, CA

[kubecon.io](https://kubecon.io)



Thank you!