THE APPLICATION FACTORY

APP DEVELOPMENT

APP SERVICES

POLICY APPLICATION

TESTING

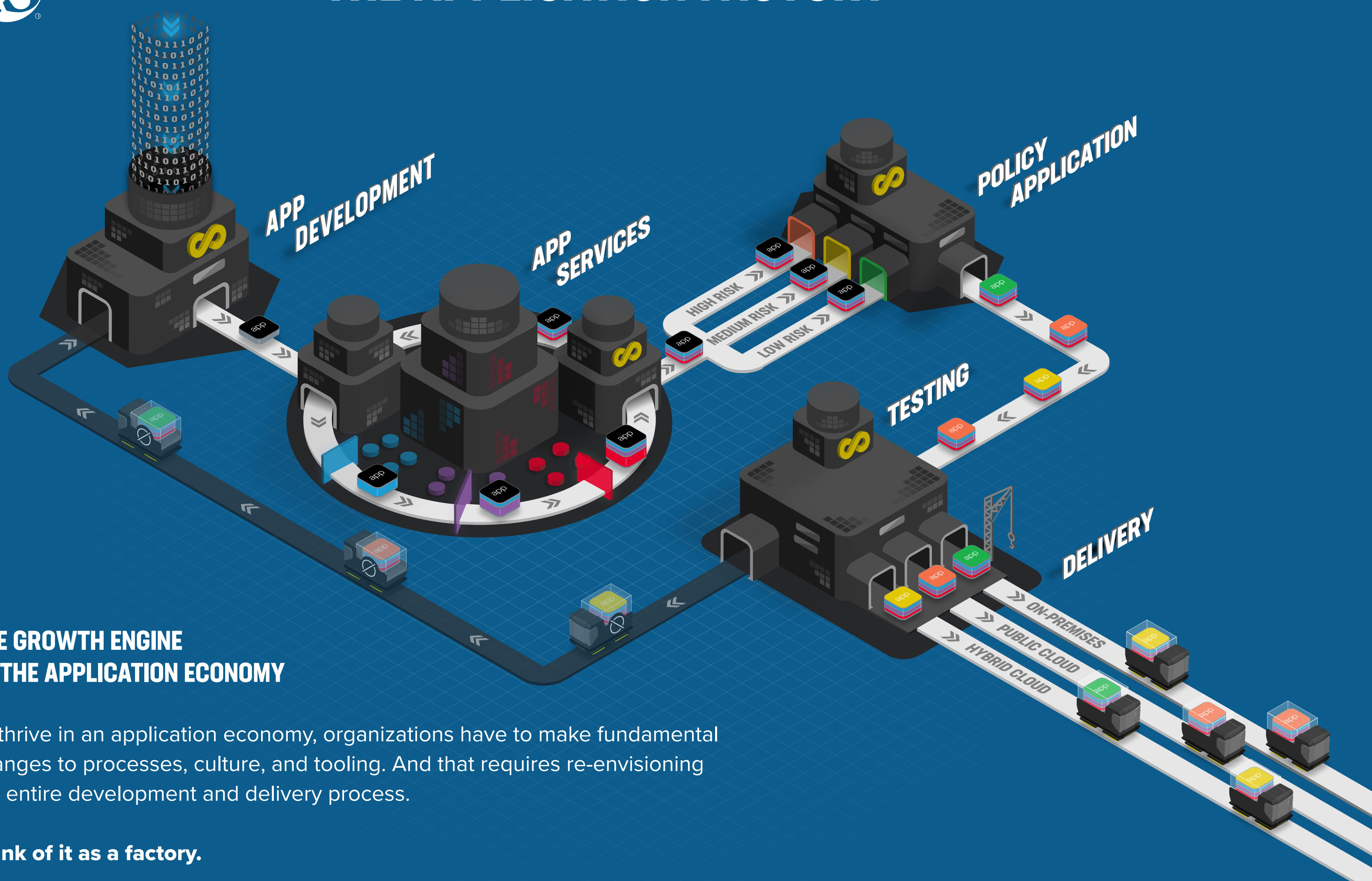DELIVERY

THE GROWTH ENGINE OF THE APPLICATION ECONOMY

To thrive in an application economy, organizations have to make fundamental changes to processes, culture, and tooling. And that requires re-envisioning the entire development and delivery process.

Think of it as a factory.

APP DEVELOPMENT
LEAN MANUFACTURING—FOR APPLICATIONS

The DevOps station represents the process of developing and testing code based on DevOps principles, rooted in three core patterns:

• **Systems thinking**—improving workflow throughout an entire system's performance cycle.

• **Feedback loops**—to inform continuous improvement.

• **Culture**—encouraging continual experimentation and learning.

Dev teams typically have a lot of freedom to choose their own tools and processes with guardrails established to ensure security and manageability of code in production.

Orchestration partners

Ansible	GitHub	Amazon CFT	Azure ARM
Jenkins	HashiCorp	Google Cloud Deployment Manager	
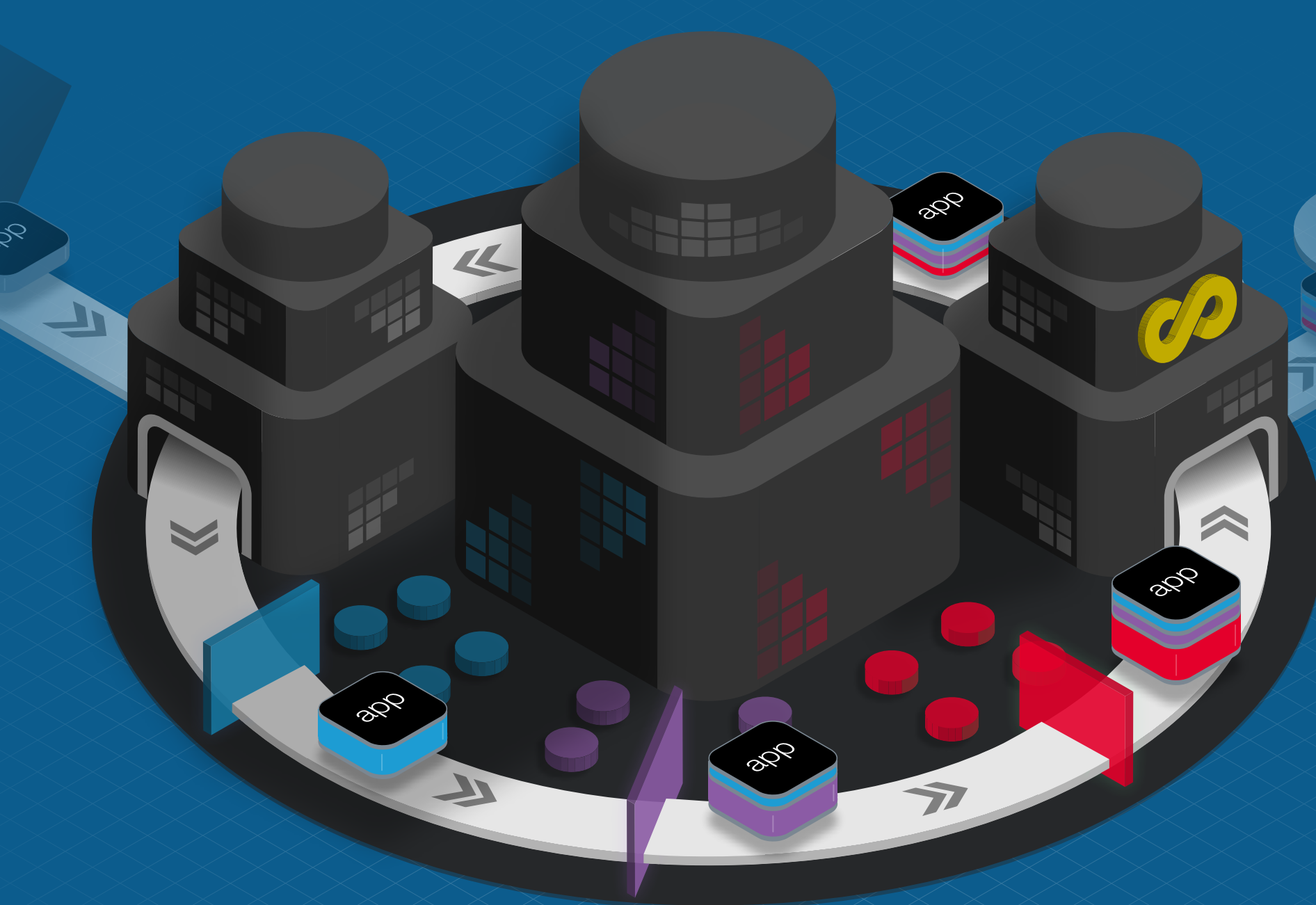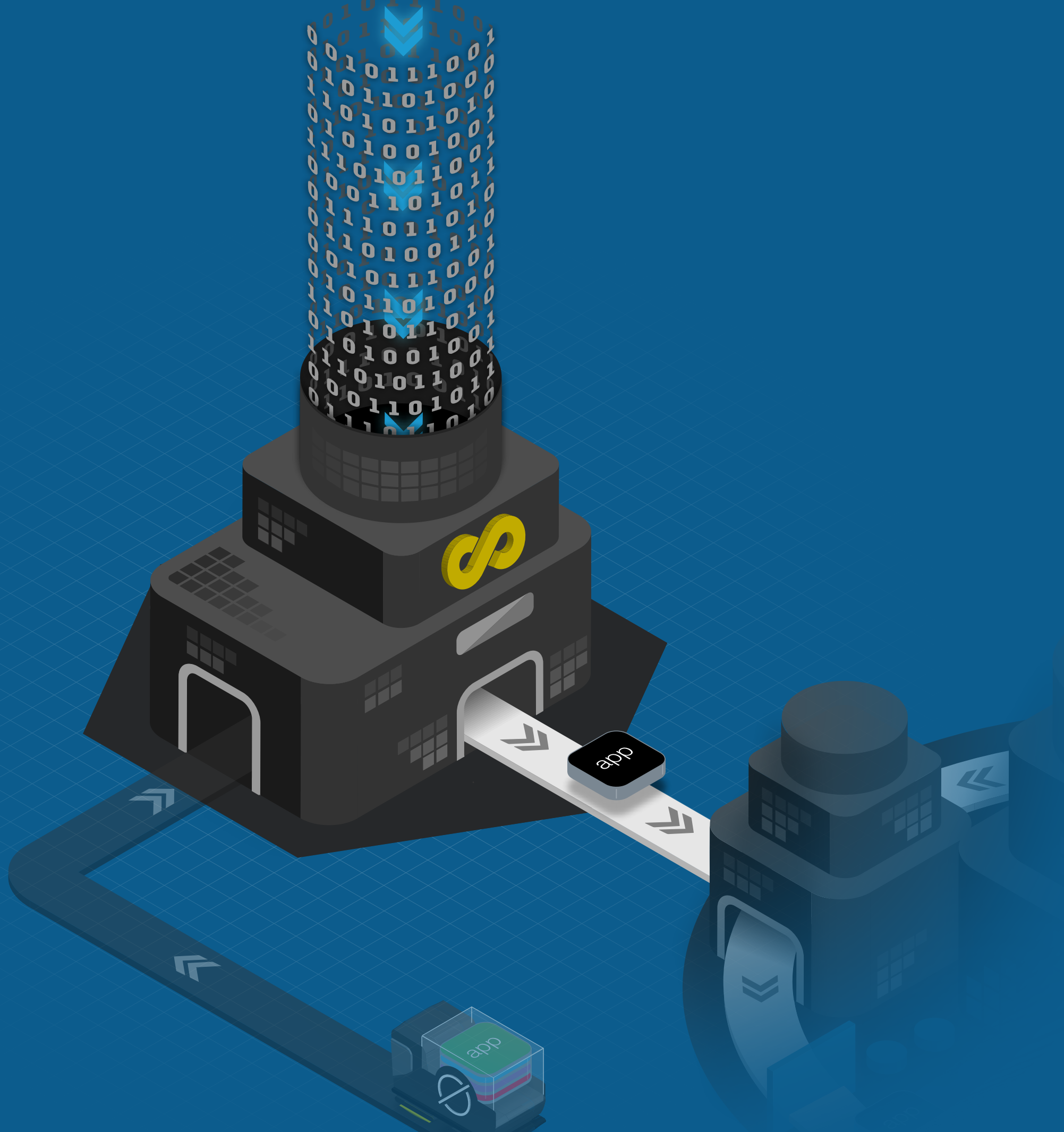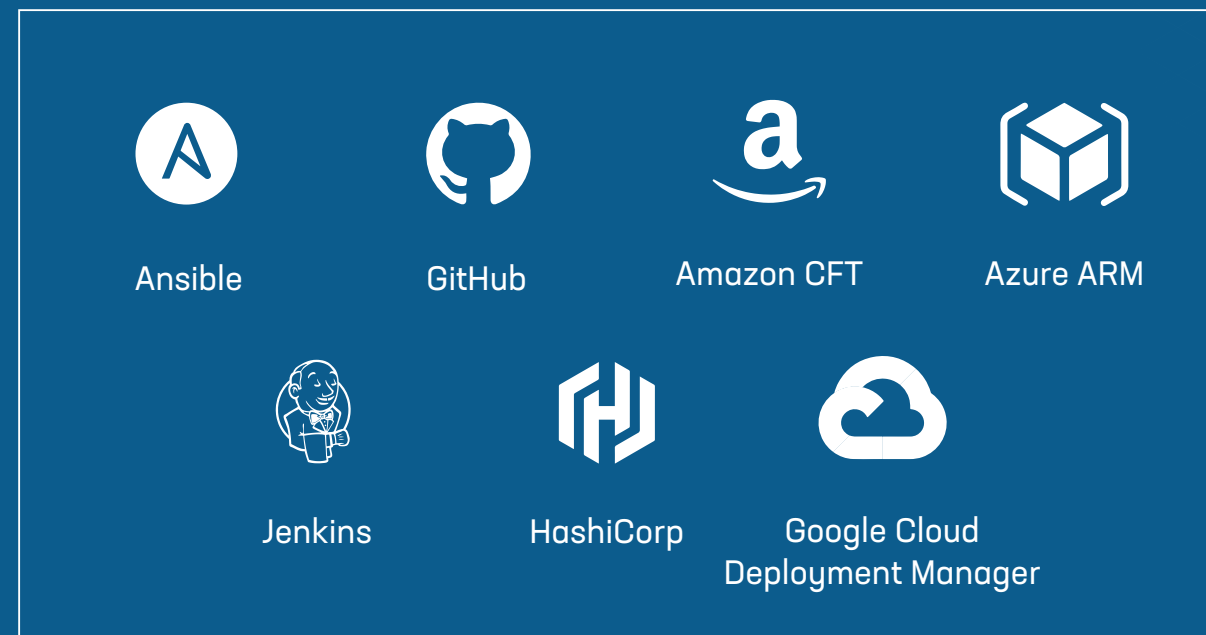
APP SERVICES
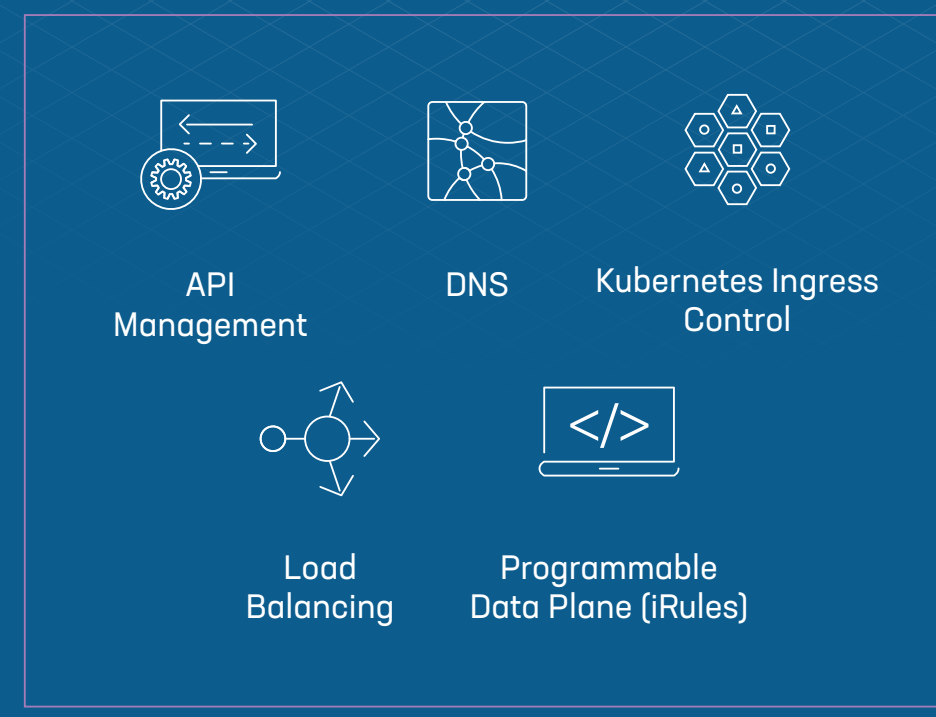### SECURITY, PERFORMANCE, AND AVAILABILITY AT THE CENTER

The app services station represents the dedicated operations and security teams (or outsourced SaaS providers) who define and automate critical services delivery within the Continuous Integration/Continuous Delivery (CI/CD) pipeline or via a service catalog.

By taking advantage of automation and working with centralized policies in a source control repository, security and operations teams can respond rapidly to issues for a single app or across an entire app portfolio.
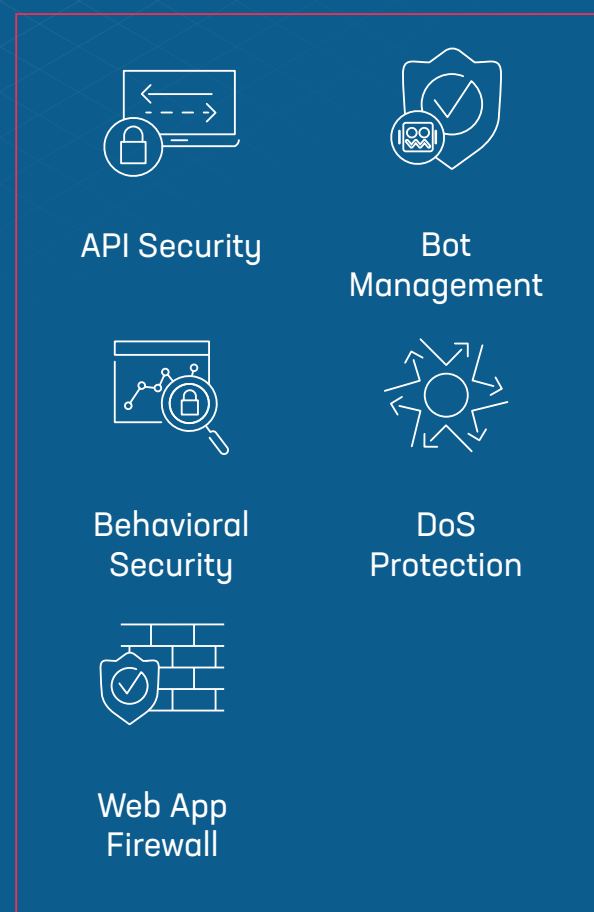
App Performance
- Analytics
- Caching
- Optimization

Traffic Management
- API Management
- DNS
- Kubernetes Ingress Control
- Load Balancing
- Programmable Data Plane (Rules)

Security
- API Security
- Bot Management
- Behavioral Security
- DoS Protection
- Web App Firewall

POLICY APPLICATION
IMMEDIATE AND AUTOMATIC SECURITY

The policy application station represents a security teams' ability to assess the business risk each app poses and ensure the appropriate level of protection is applied, automatically.

This makes sure security isn't a bottleneck within the app delivery process, and it gives security teams an effective insertion point to rapidly update policies in response to new regulations or threats.
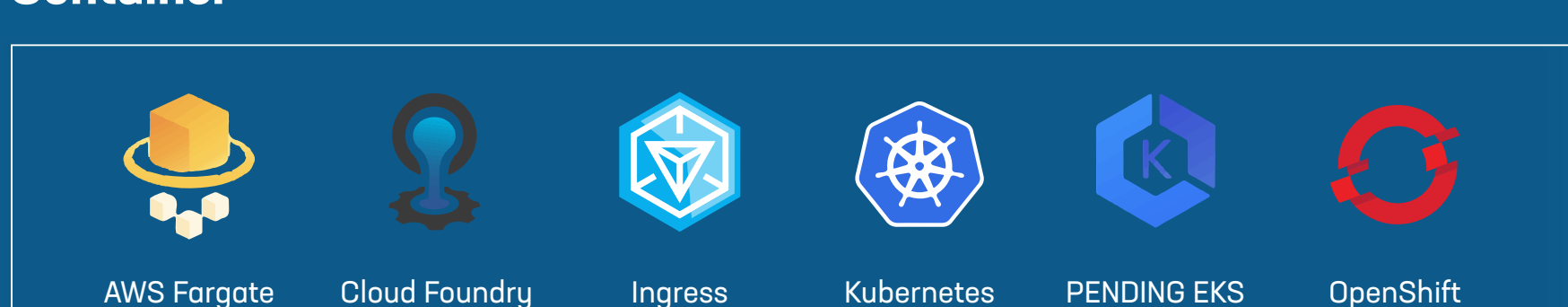
HIGH RISK

MEDIUM RISK

LOW RISK
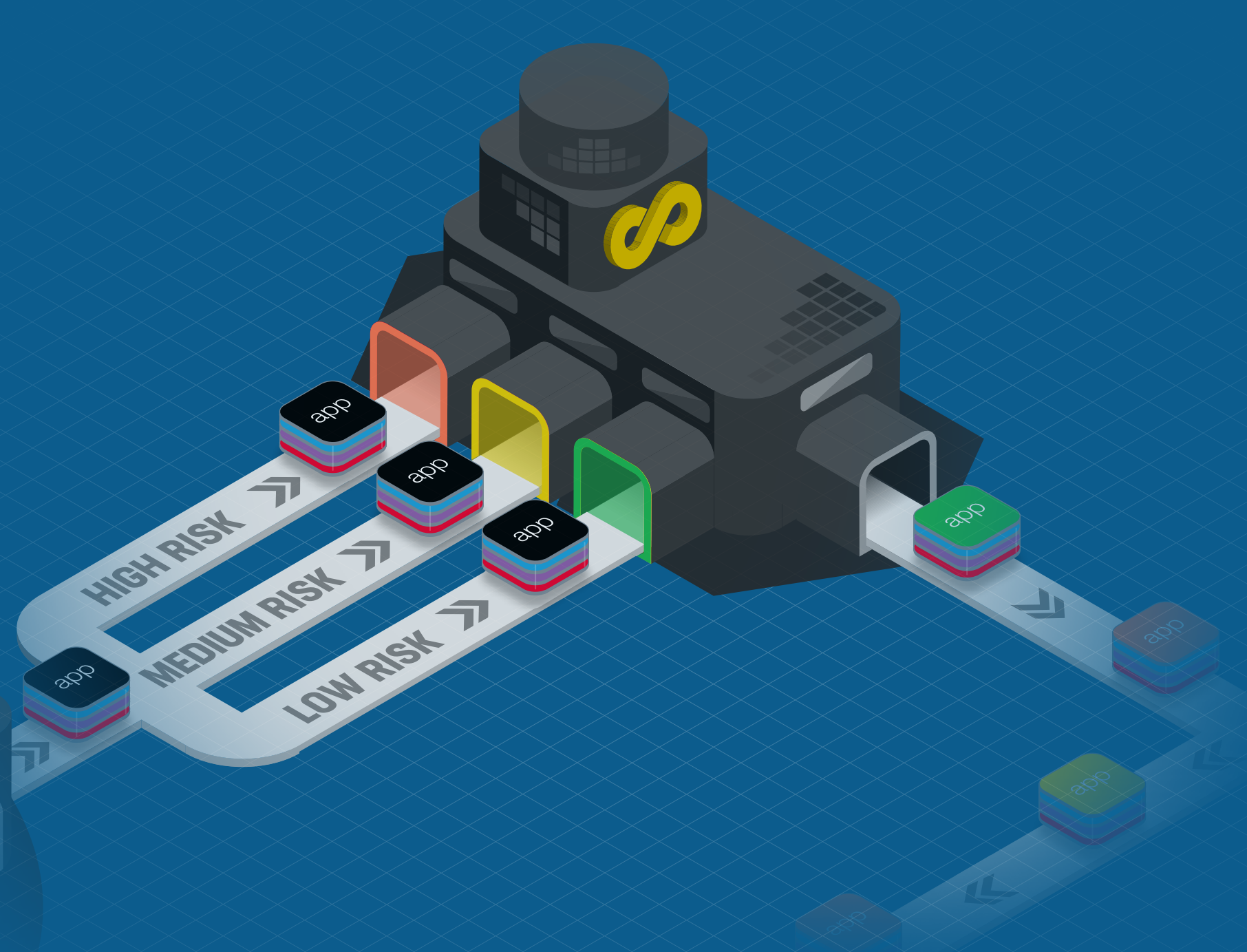
DELIVERY
CONSISTENT SERVICES ACROSS ENVIRONMENTS

F5 multi-cloud application services provide consistent traffic management, performance, and security across environments, reducing tool sprawl and simplifying management.

ON-PREMISES

PUBLIC CLOUD
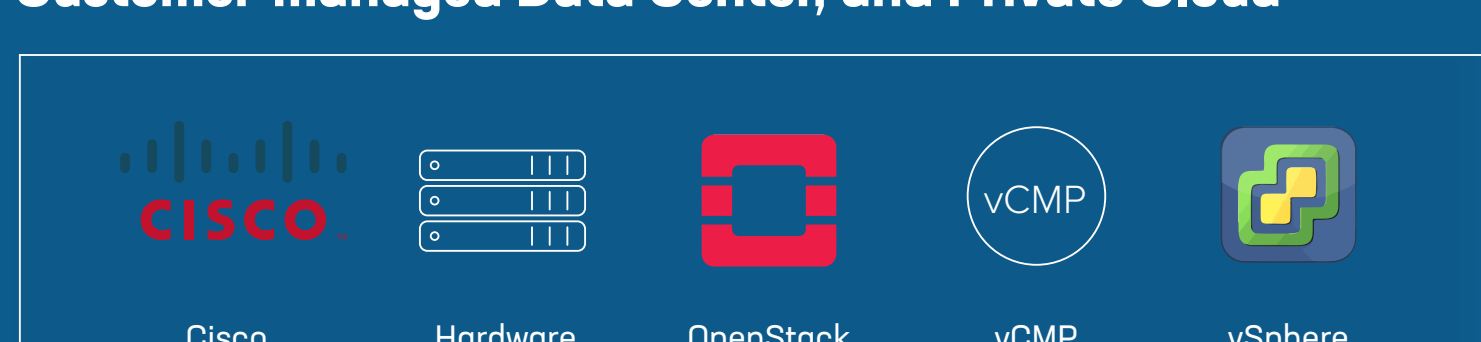
HYBRID CLOUD

Container
AWS Forgate | Cloud Foundry | Ingress | Kubernetes | PENDING EKS | OpenShift

Virtual
VMware | KVM

SaaS
F5 Cloud Services

Public Cloud
Alibaba | AWS | Azure | GCP | VMC on AWS

Customer-managed Data Center, and Private Cloud
Cisco | Hardware | OpenStack | vCMP | vSphere

BUILD WHAT MATTERS

At F5, we build technology that helps teams—developers, operations, and security collaborate more effectively so that everyone can focus on building what matters.

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Silverline

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