



Open.Tour

Technologische Innovation,
Stabilität und Security durch
DevSecOps



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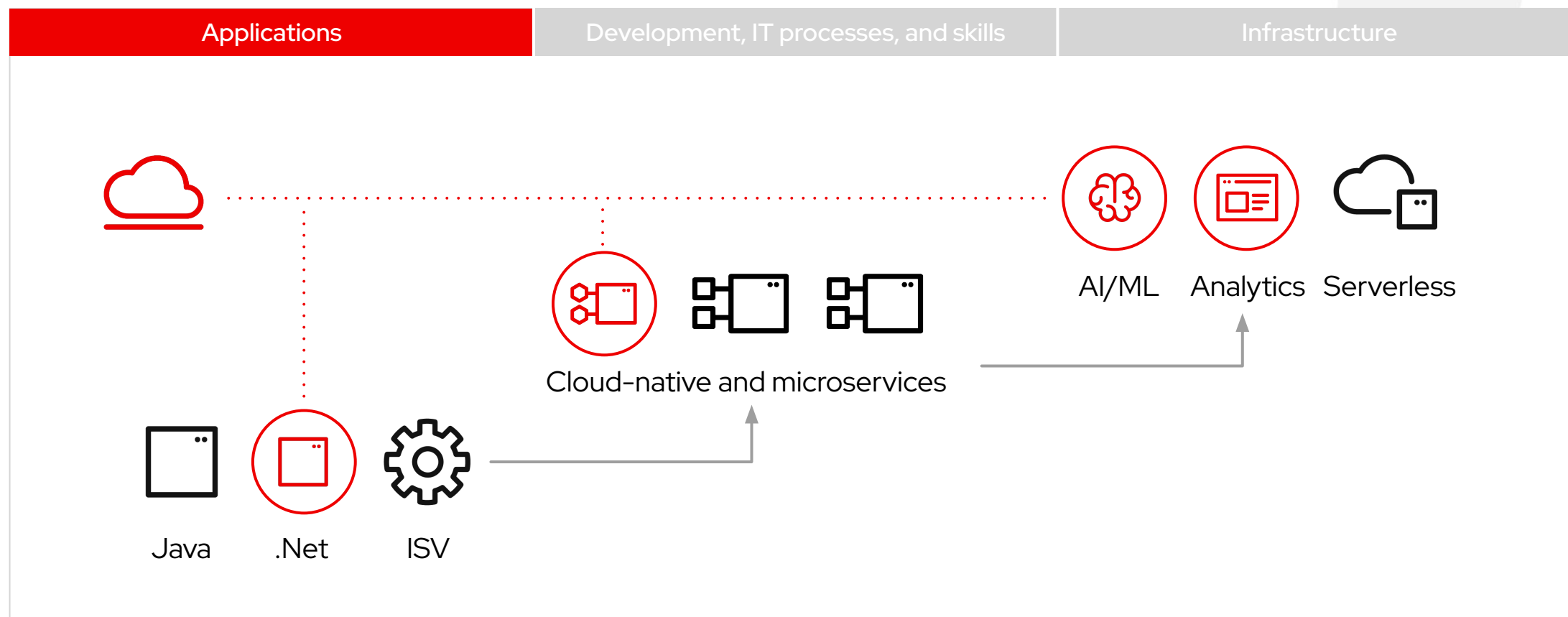
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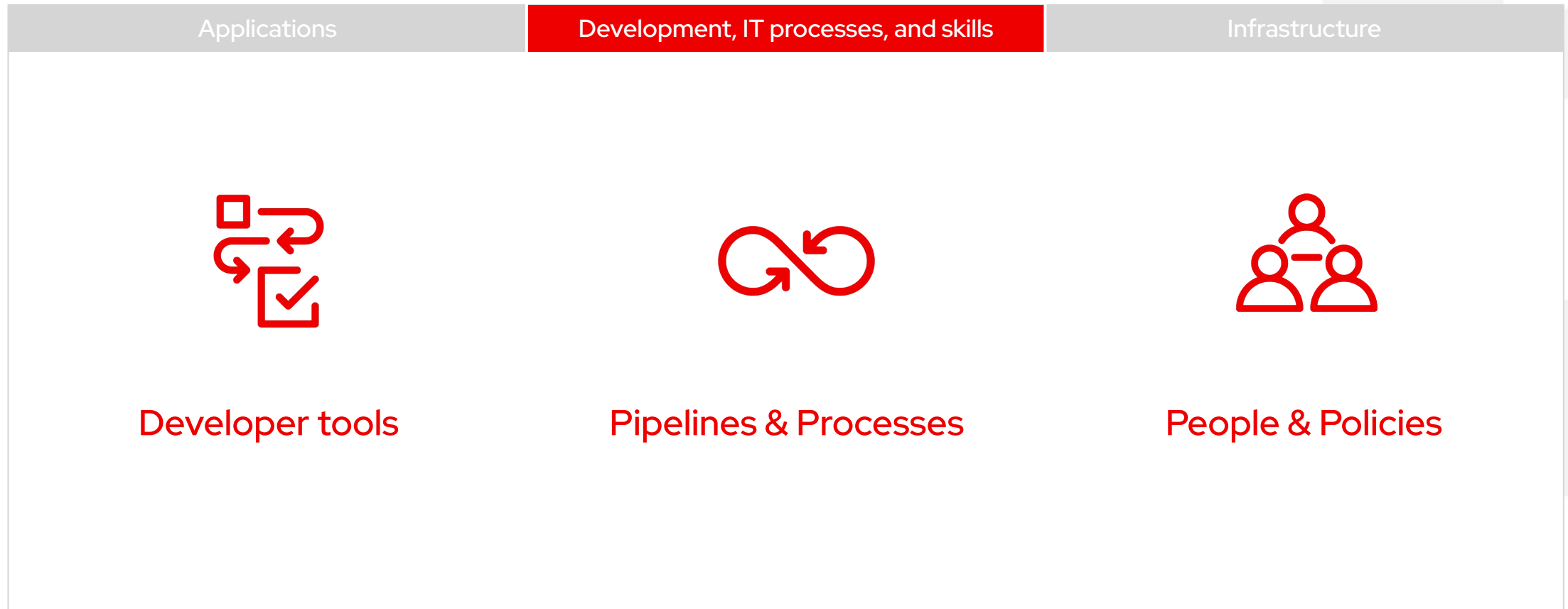
Hybrid is more than a strategy

It's a way to bring together your existing hybrid mix of new and old...



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Supporting the cloud-native application security you need



CONTROL

Application Security

- Integrate security in your CI/CD Pipeline
- Mitigate container runtime vulnerabilities
- Automated signing of container images



PROTECT

The platform

- Restrict access through trusted identity providers
- Isolate applications, environments within a cluster
- Validation with established security standards



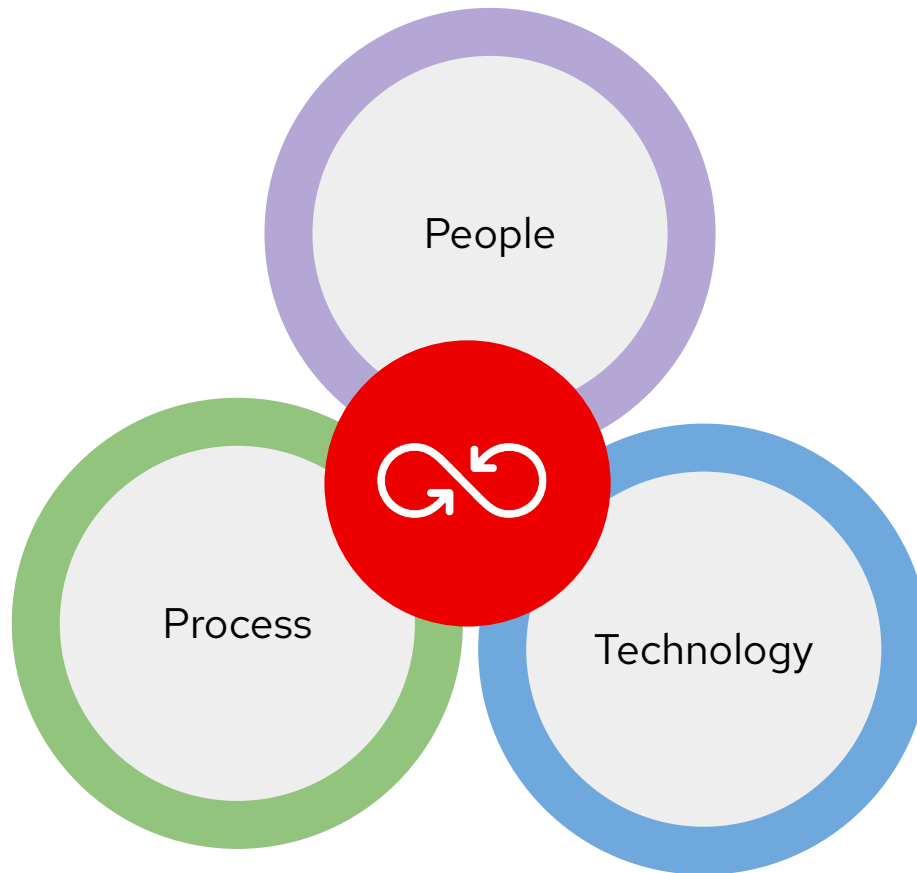
DETECT

And respond to runtime issues

- Utilize a broad security ISV ecosystem
- Connect with Red Hat Certified Operators
- Develop and deploy securely anywhere

DevSecOps is the key to meet the
insatiable demand for delivering quality
applications rapidly

DevOps: delivering software collaboratively

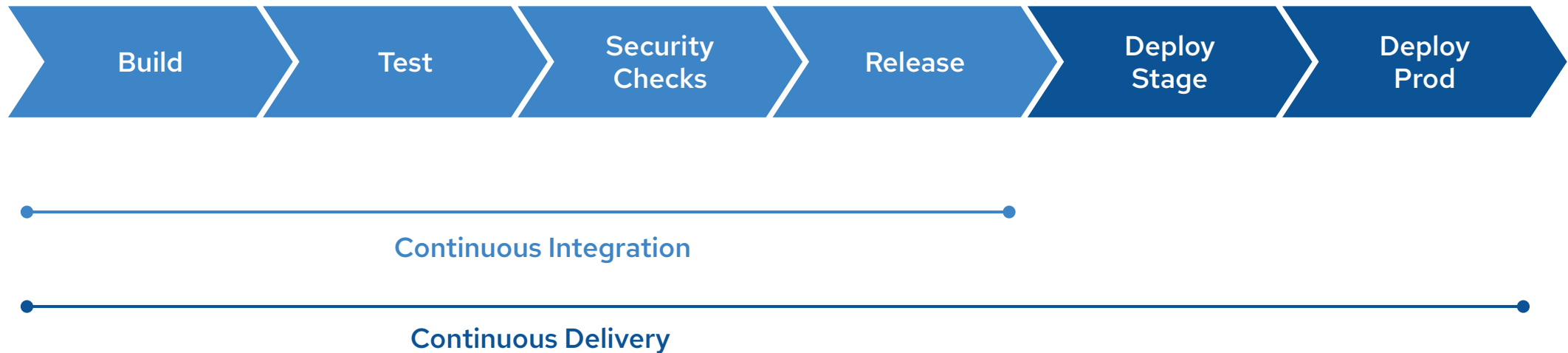


Version control artifacts
Continuous Development
Automated Testing
Continuous Integration
Continuous Delivery
Continuous Deployment
Continuous Monitoring
Infrastructure as Code
High-trust Culture
Constant Collaboration
Gradual changes
Shift left

...

Continuous Integration(CI) & Continuous Delivery (CD)

A key DevOps principle for automation, consistency and reliability

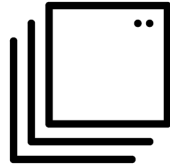


What is GitOps?

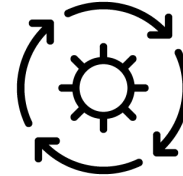
GitOps Principles



The system is
described
declaratively



The desired state is
versioned in Git



Approved changes
can be applied
automatically



A controller exists to
detect and act on
drift

Why GitOps?

Standard Workflow

Familiar tools and Git workflows from application development teams

Visibility and Audit

Capturing and tracing any change to clusters through Git history

Enhanced Security

Review changes beforehand, detect configuration drifts, and take action

Multi-cluster consistency

Reliably and consistently configure multiple Kubernetes clusters and deployment

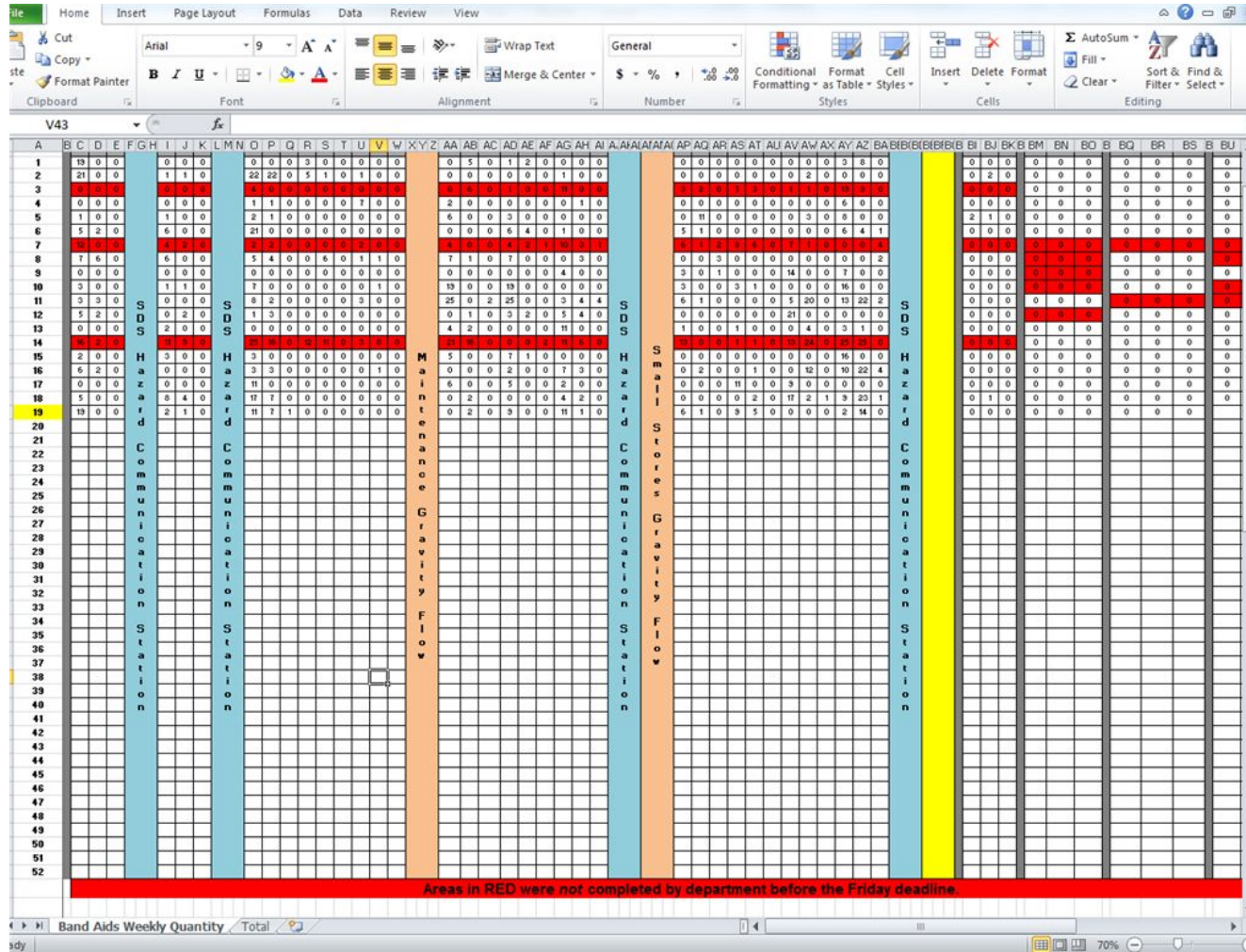
Using GitOps for your operational processes



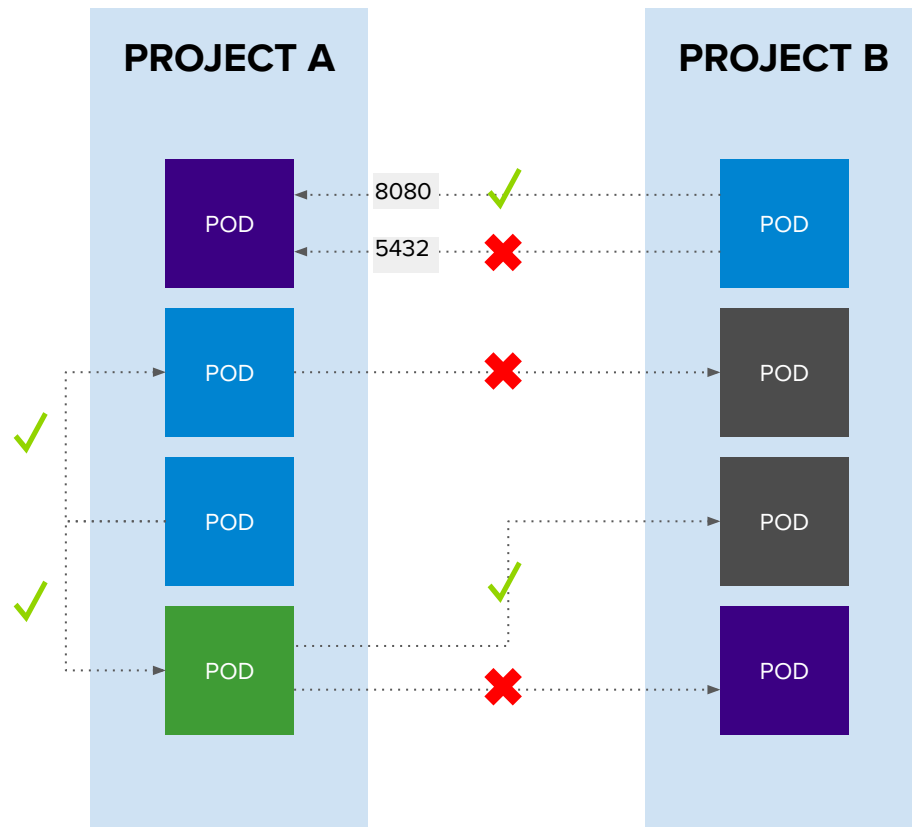
Regulations

Every communication between two applications need to be approved by both sides and documented

The Excel Way



OPENSIFT - NETWORK POLICY

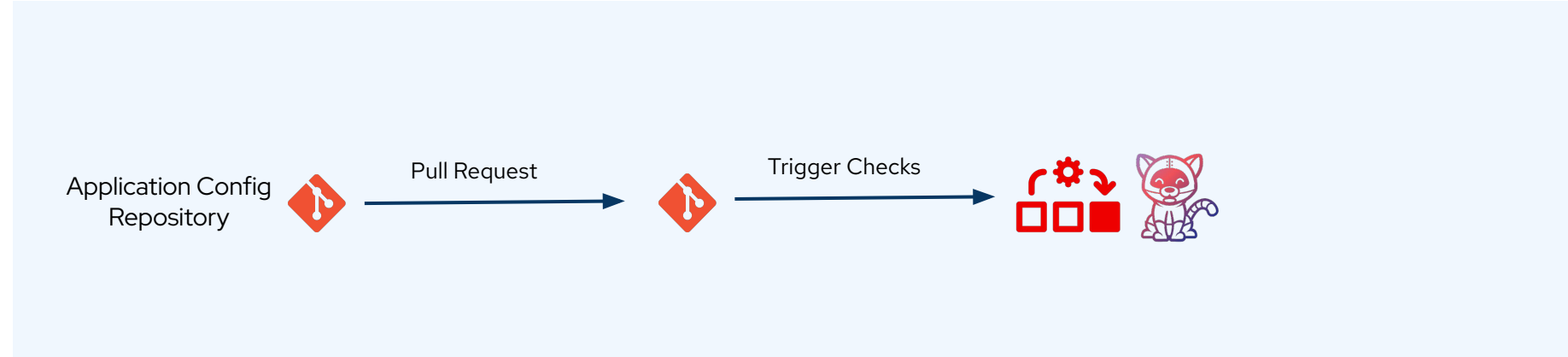


Example Policies

- Deny all traffic between projects
- Allow communication from **blue** to **purple** on port 8080

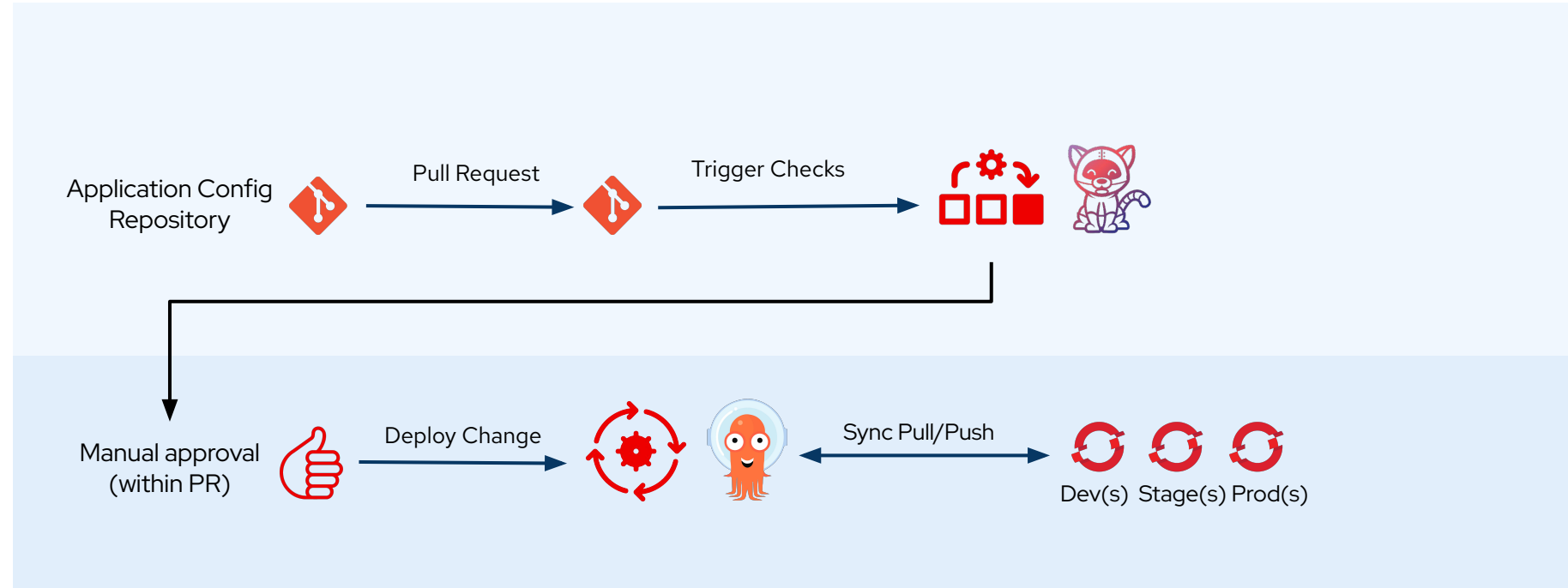
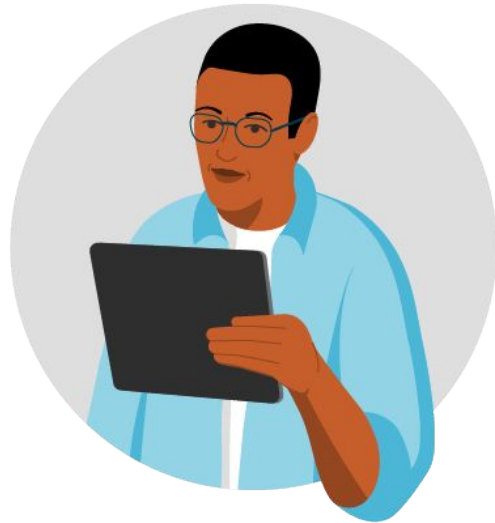
```
apiVersion: extensions/v1beta1
kind: NetworkPolicy
metadata:
  name: allow-to-purple-on-8080
spec:
  podSelector:
    matchLabels:
      color: purple
  ingress:
    - ports:
        - protocol: tcp
          port: 8080
```

Cloud Native



```
apiVersion: extensions/v1beta1
kind: NetworkPolicy
metadata:
  name: allow-myapp-on-8080
spec:
  podSelector:
    matchLabels:
      color: myapp
  ingress:
  - ports:
    - protocol: tcp
      port: 8080
```


Cloud Native




Thank you

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