



Connect

Calico Whisker Free Tool for Kubernetes Policy Troubleshooting and Network Visibility

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Red Hat



Agenda



- Introduction
- Security and Observability Challenges
- Calico Network Policies
- Calico Whisker
- Demo



CALICO

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Introduction: Calico Open Source



8M+
Nodes



1M+
Clusters



1.4B+
Docker Pulls



50k+
Enterprises



>50%
of Fortune 100



166
Countries

Most adopted container networking and security solution

Introduction: Calico Open Source



Introduction: Red Hat Partnership & Support



Product

Red Hat OpenShift Container Platform 4.12 - 4.x
Architecture: x86_64

Certification type

RHOCP 4 Application

Certified

Tigera Operator installs and manages Project Calico and Calico Enterprise for OpenShift Container Platform environments

**You Can't
Secure What
You Can't
See**



Security and Observability Challenges

- Outages due to policy misconfiguration
- Difficult be compliant
- Is my application misbehaving?
- How can I troubleshoot network issues in my cluster?
- What traffic is my application generating?

Calico Network Policy

Provides richer set of capabilities compared with Kubernetes Policy

- Endpoint, Namespace, and Service Account Selectors
- Supports Policy Ordering/Precedence
- Supports additional actions (allow, deny, log, pass)
- Supports both Namespace-Scoped and Global-Scoped
- Can protect VMs and host interfaces (not just pods)
- Enables testing and auditing of policy behavior before deployment with



Staged Policies

Calico Solution

- ✓ See real-time network flows
- ✓ Observe before enforcing a policy
- ✓ Filter by namespace, pod, protocol, or policy
- ✓ Understand why traffic was allowed or denied



Demo



GitHub

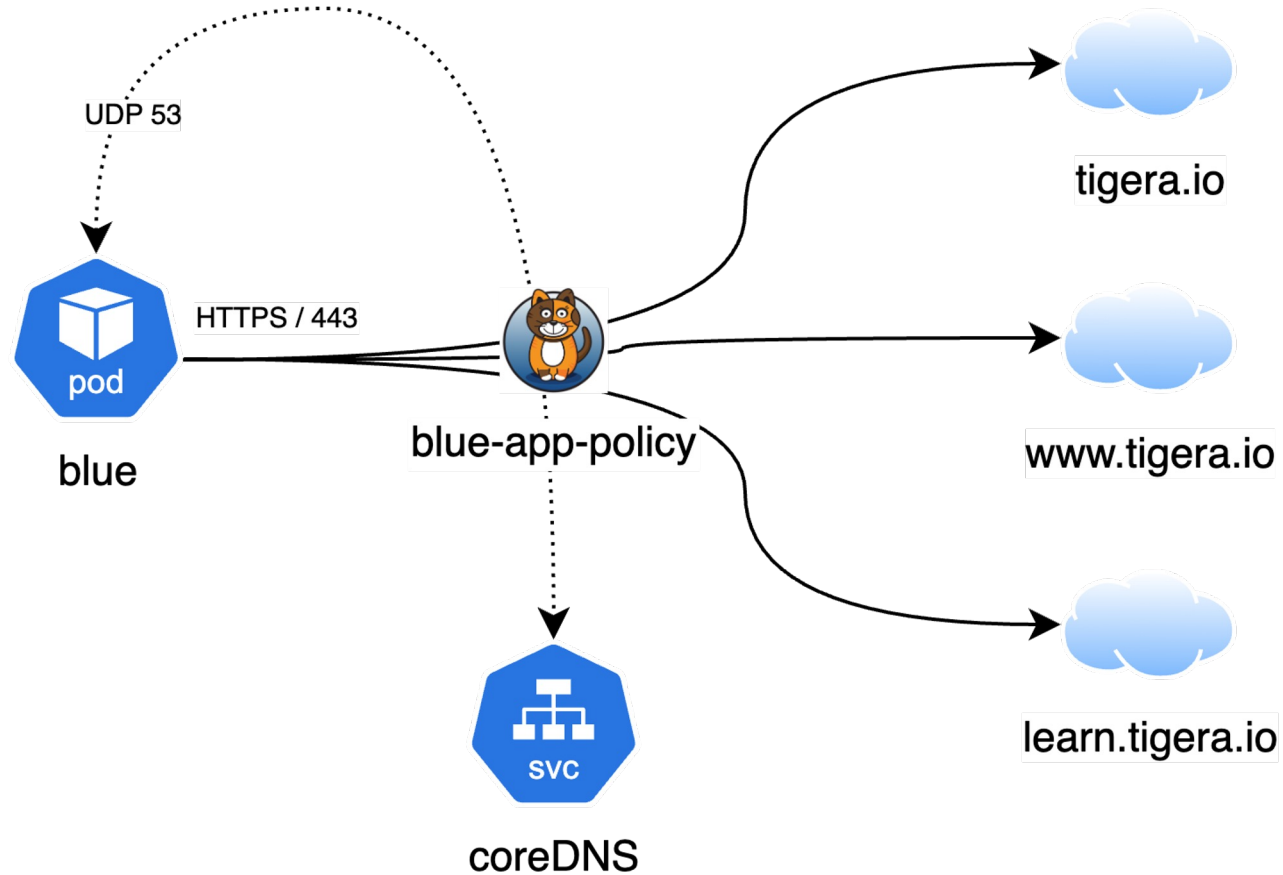


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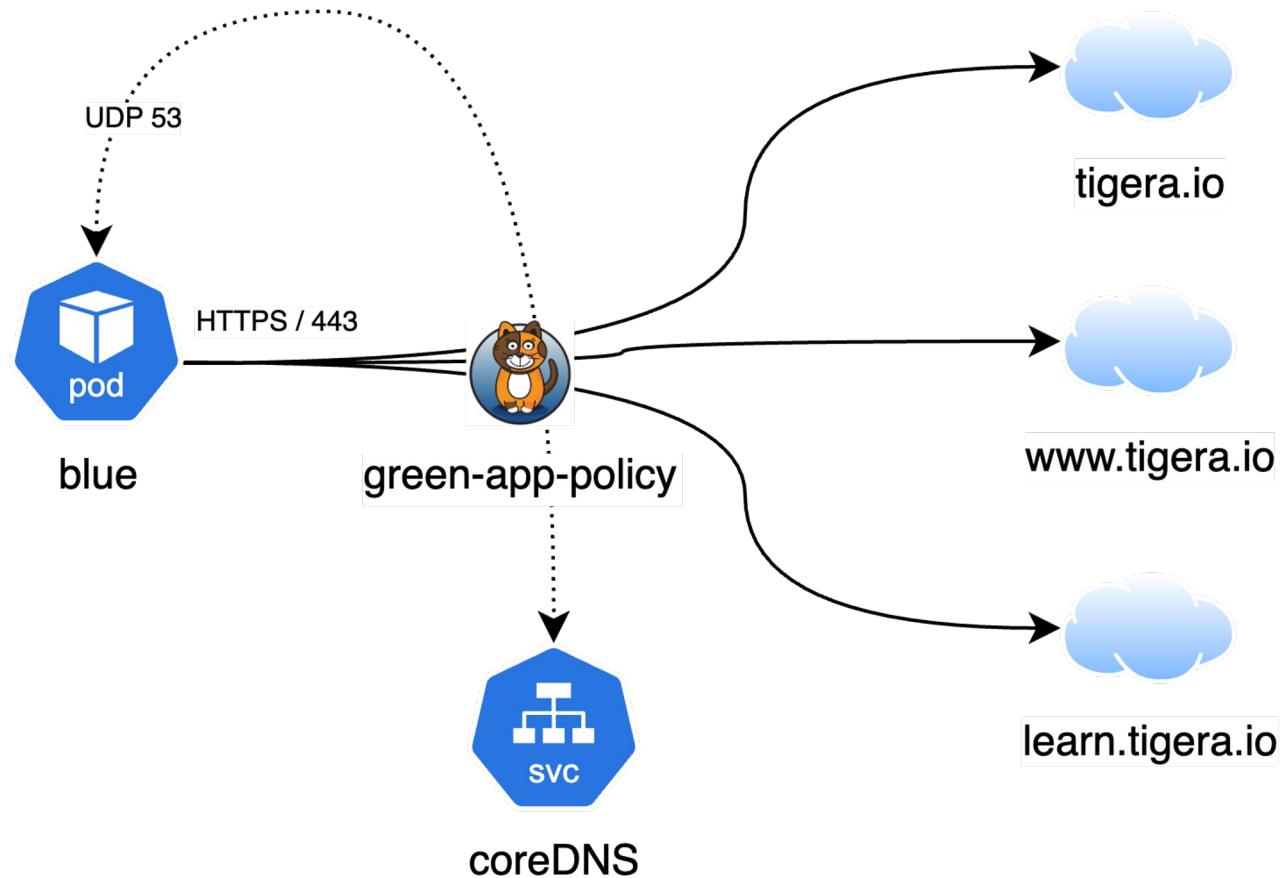
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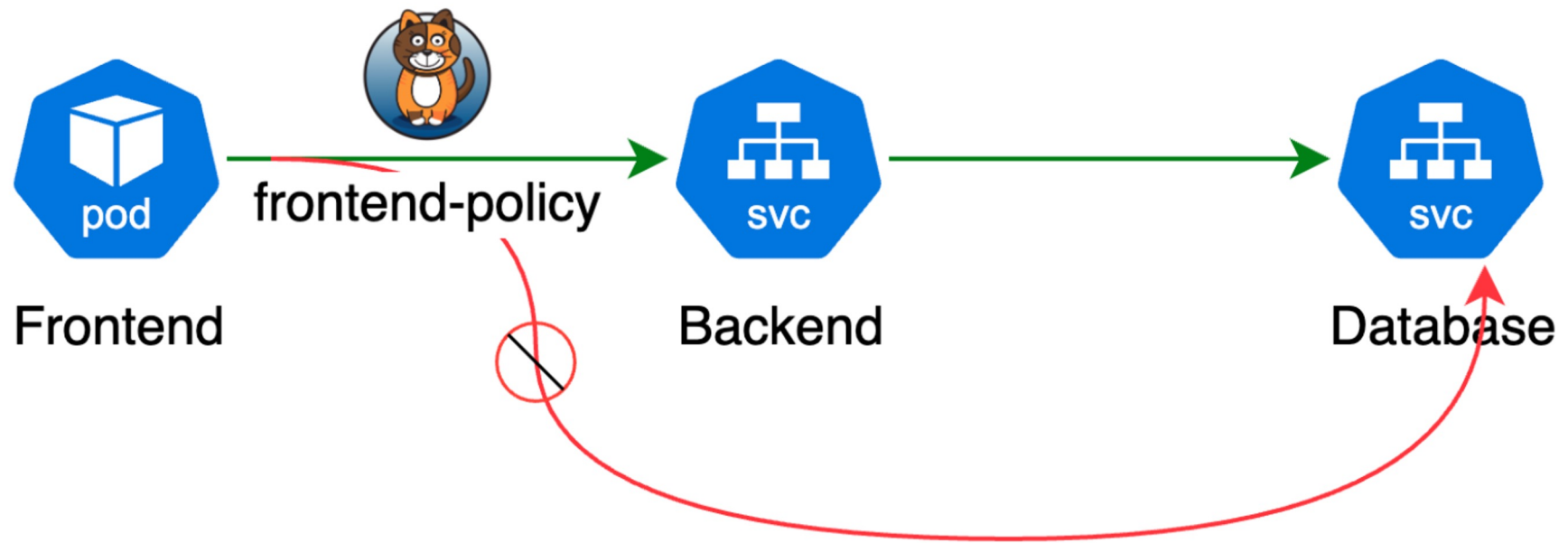
Demo 1 – Policy Misconfiguration



Demo 2 – Policy Misconfiguration with Staged Policy



Demo 3 – Supply Chain Attack



Q & A



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