



SUSE NeuVector

Protection Without Compromise – From Dev to Production

THE 2 MAJOR COMPONENTS OF



NeuVector

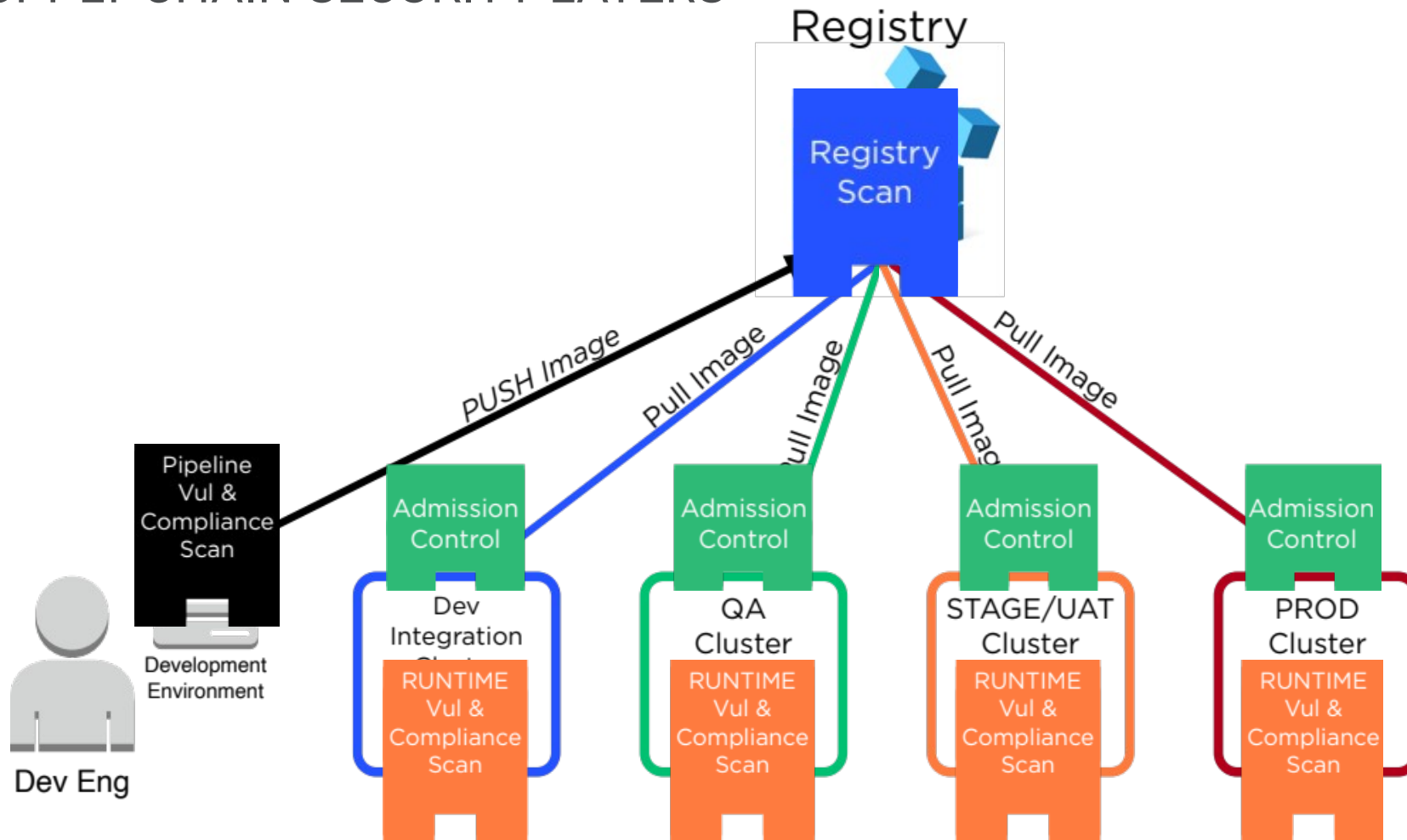
Supply Chain Scanning

Vulnerabilities / Compliance


















Runtime Security

Network / Processes / File Protection

4 SUPPLY CHAIN SECURITY LAYERS



CVE DATABASE SOURCES

	Source	URL
	nvd and Mitre	https://nvd.nist.gov/feeds/
	SUSE SLE/SLES	https://ftp.suse.com/pub/projects/security/oval/
	Rancher OS	https://rancher.com/docs/os/v1.x/en/about/security/
	Alpine	https://github.com/alpinelinux/alpine-secdb
	Ubuntu	https://launchpad.net/ubuntu-cve-tracker
	Debian	https://security-tracker.debian.org/tracker/data/json
	RedHat	https://www.redhat.com/security/data/oval/
	Amazon	https://alas.aws.amazon.com/
	Busybox	https://www.cvedetails.com/vulnerability-list/
	NGINX	http://nginx.org/en/security_advisories.html
	NodeJS	https://www.npmjs.com/advisories/
	Ruby	https://github.com/rubysec/ruby-advisory-db
	OpenSSL	https://www.openssl.org/news/vulnerabilities.html
	Apache	https://www.cvedetails.com/vendor/45/Apache.html
	Java	https://openjdk.java.net/groups/vulnerability/advisories/
	Python	https://github.com/pyupio/safety-db
	Microsoft Mariner	https://github.com/microsoft/CBL-MarinerVulnerabilityData

NeuVector CVE Database is Updated via 17 Security Sources Nightly

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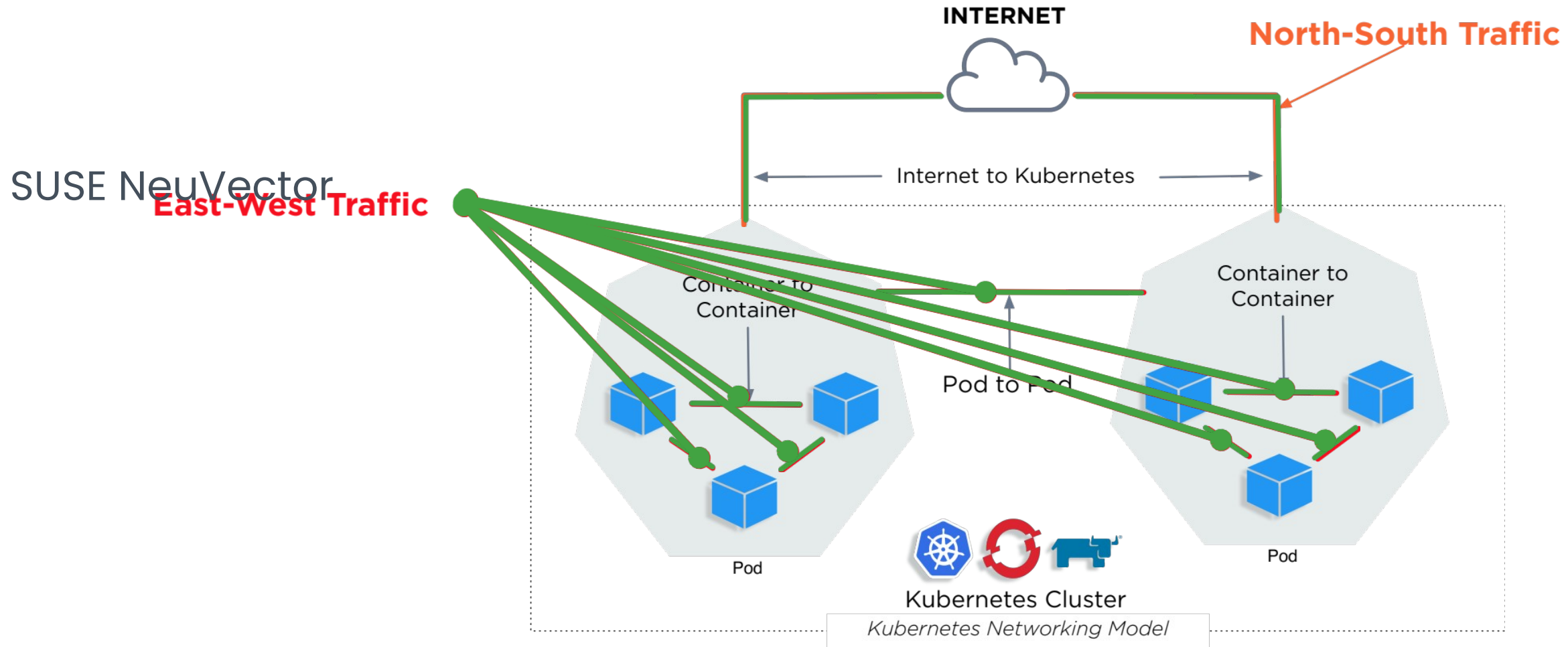
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RUNTIME BEHAVIORAL INSPECTION

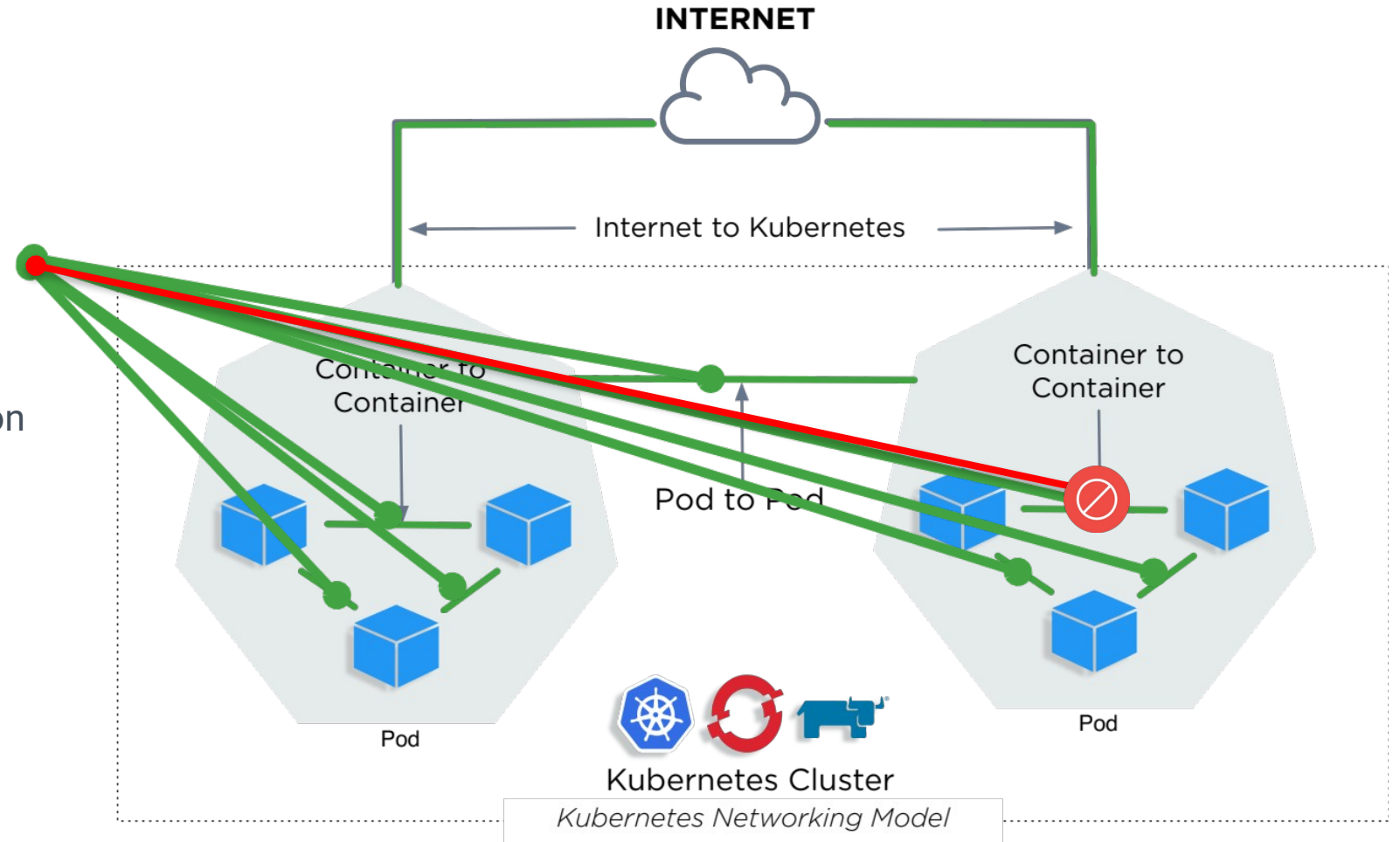


RUNTIME BEHAVIORAL INSPECTION

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K8's Deep Packet Inspection
(PATENTED)

- Layer 3/4 Port
- Layer 7 Protocol
- +
• Processes



APPLICATION PROTOCOLS RECOGNIZED

HTTP/HTTPS

MySQL

RabbitMQ

SSL

Redis

Radius

SSH

Zookeeper

VoltDB

DNS

Cassandra

Consul

DNCP

MongoDB

Syslog

NTP

PostgreSQL

EtcD

TFTP

Kafka

Spark

ECHO

Couchbase

Apache

RTSP

ActiveMQ

Nginx

SIP

ElasticSearch

Jetty

ICMP

MemCache

NodeJS

gRPC

Oracle

35 Layer-7 Application Protocols as 5.0.0 – May 2022

THREATS AUTOMATICALLY DETECTED

SYN Flood

ICMP Flood

IP Teardrop

TCP Split Handshake

Ping Death

DNS Flood DDoS

Detect SSH 1, 2, or 3

Detect SSL TLS v1.0

SSL Heartbleed

HTTP Neg Content

HTTP Smuggling

MySQL Access Deny

TCP small window

DNS Buffer Overflow

DNS Null Type

DNS Zone Transfer

ICMP Tunneling

DNS Tunneling

SQL Injection

Apache Struts RCE

K8's Man-in-the-middle

TCP Small MSS

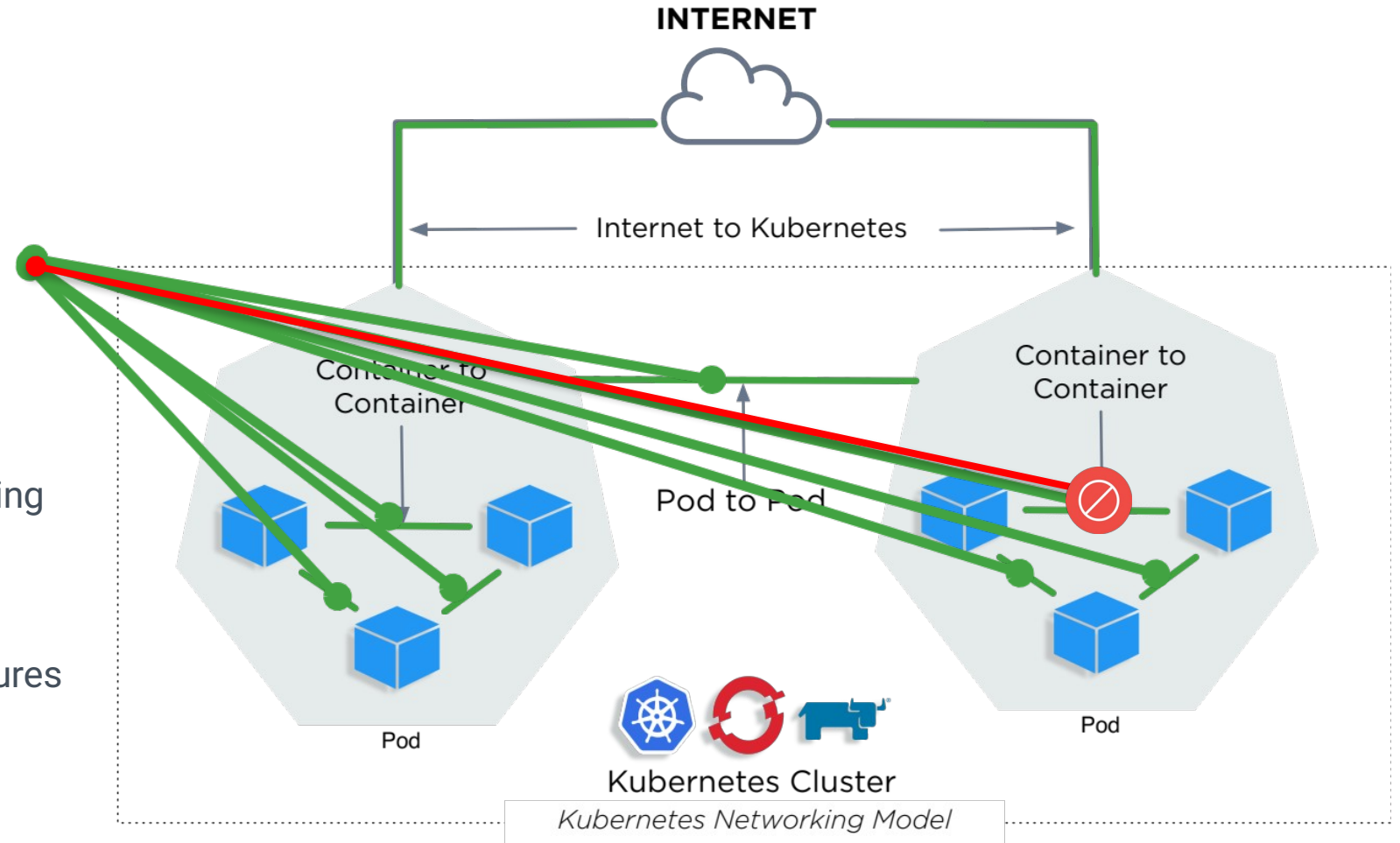
Cipher Overflow

RUNTIME BEHAVIORAL INSPECTION

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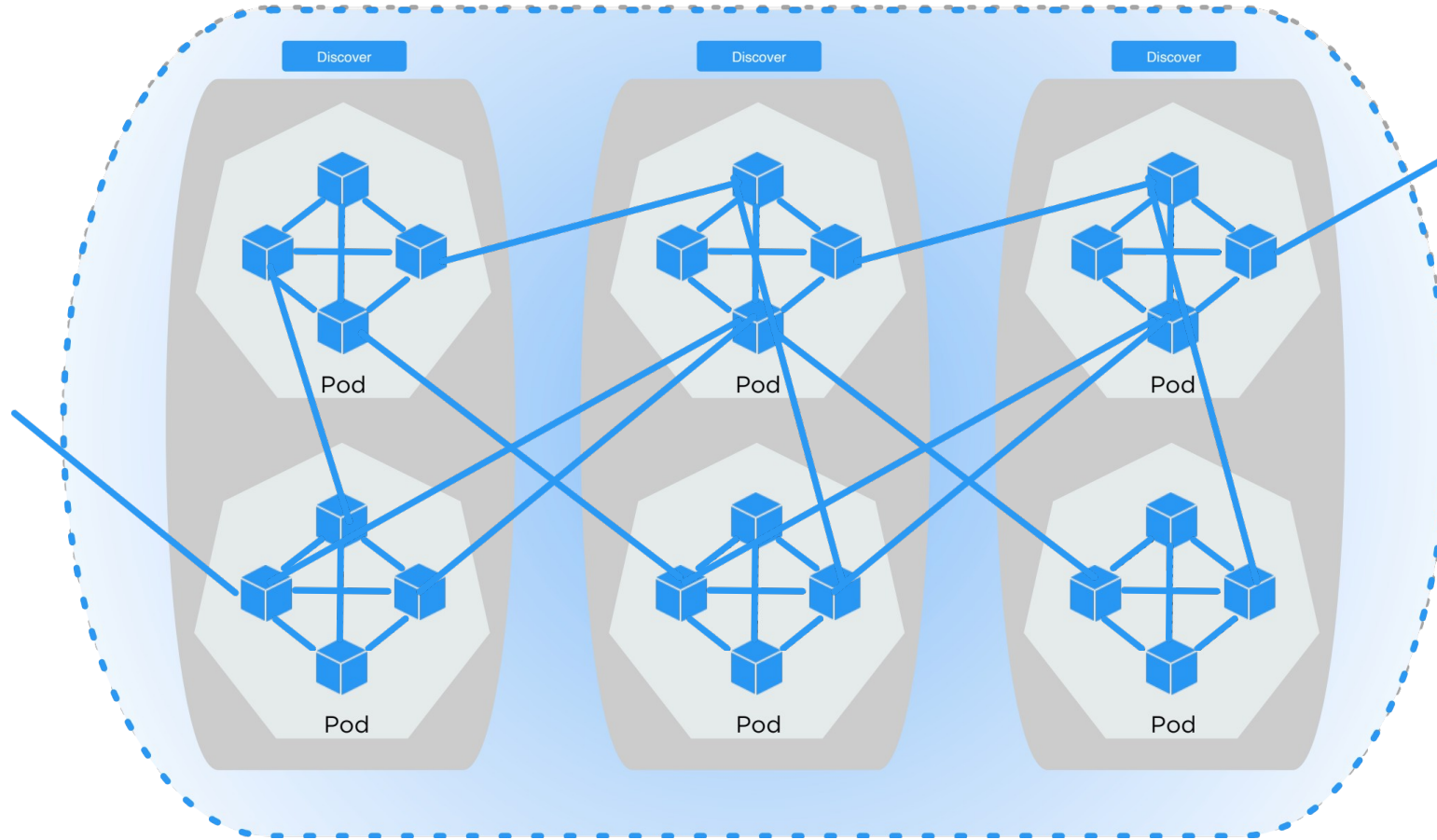
DPI enables

- Automated Behavioral Learning
- Auto-Gen Security Policy
- Security as Code
- Zero-Day Countermeasures
- Unknown CVE Countermeasures
- Packet Capture
- Data Loss Prevention



AUTOMATED BEHAVIORAL-BASED ZERO-TRUST

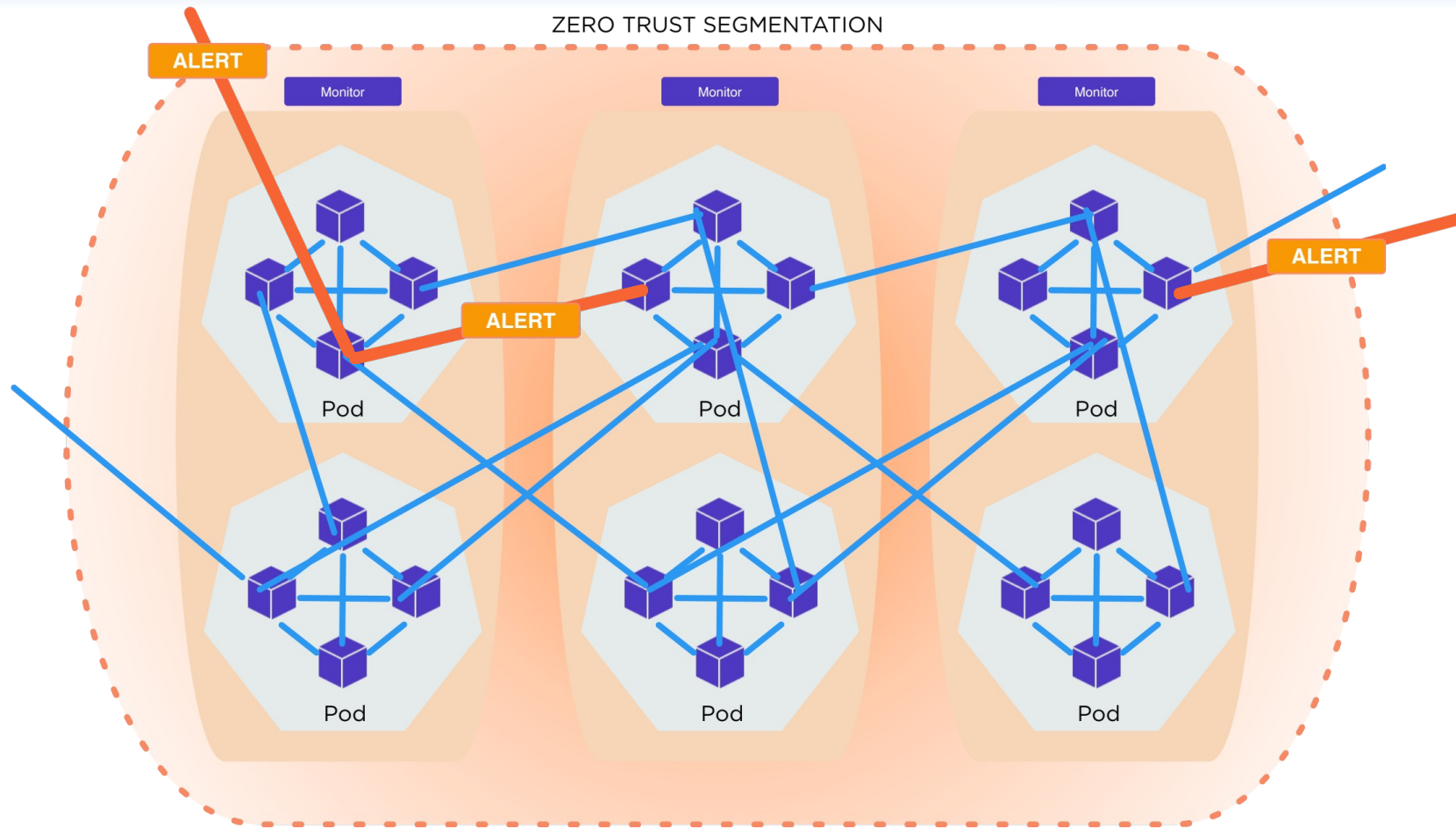
ZERO TRUST CLUSTER FOR LEARNING



 Discover

Identifies application behavior (Learning Mode)

AUTOMATED BEHAVIORAL-BASED ZERO-TRUST



 Discover

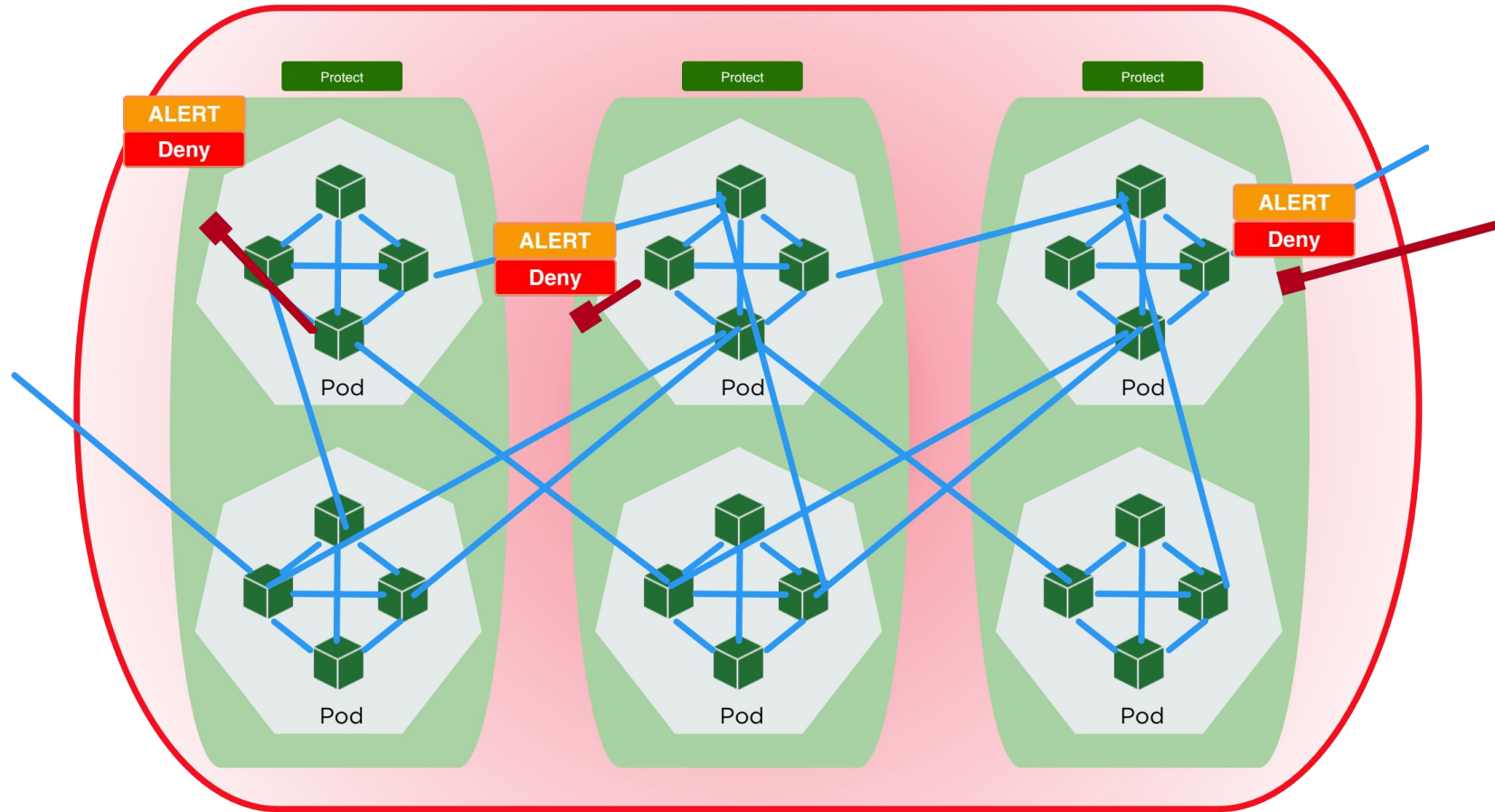
Identifies application behavior (Learning Mode)

 Monitor

Alerts to any anomalous application behavior

AUTOMATED BEHAVIORAL-BASED ZERO-TRUST

ZERO TRUST SEGMENTATION



 Discover

Identifies application behavior (Learning Mode)

 Monitor

Alerts to any anomalous application behavior

 Protect

Denies on any anomalous application behavior

Onboarding Experience

Installation typically takes:

- < 20 minutes via kubectl in Kubernetes
- < 5 minutes via helm chart

Configuration is less than 5 minutes.

POC engagements are supported by engineers!

- Installation
- Test Plans
- Operational Overview
 - CI/CD automation support
 - Overview / Training

DEVOPS PIPELINE TO PRODUCTION SECURITY

Full SDLC
Vulnerability Management

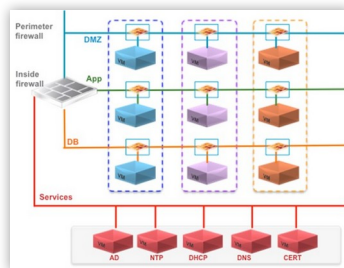


Compliance / DLP



Full Lifecycle
Container
Security Platform

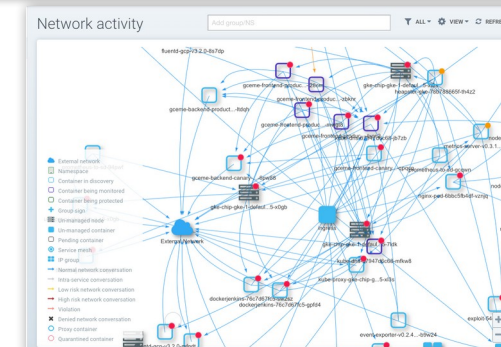
Layer 7 Application
Micro-Segmentation



Zero-Day
Attack Prevention



Policy Automation & Behavior Baseline



Thank you

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