



Strengthen Your Kubernetes

Unmask Hidden Threats with Runtime Security

Stockholm Cloud Native & Container Day

Two major components

Supply chain scanning

Vulnerabilities / Compliance

Runtime Security

Network / Processes / File protection

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Supply chain scanning

	Pattern based	
Vulnerability Pipeline Platform Registry Host nodes 	Compliance CIS GDPR PCI NIST HIPPA *Custom 	Admission control CVE Aware Registry control Complex rules alert/enforce



To consider regarding CVE:s

False positive / False negative

Requires CVE remediation

Prioritize patching:

- CVE scoring
- Are they relevant in my implementation?
- Are they relevant in my stack?
- Are they relevant at all?



daniel:// stenberg:// @daniel.... 5d The windmills (the CVE system) and me. Part 43. "DISPUTED, not REJECTED" daniel.haxx.se/blog/ 2024/02...



daniel:// stenberg:// @dani... 1mo And all of a sudden: curl is a CNA.

daniel.haxx.se/blog/2024/01...



kernel.org is now a CVE Numbering Authority (CNA) for any vulnerabilities in the Linux kernel as listed on kernel.org, excluding end-of-life (EQL) versions.

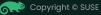
kernel.org Added as CVE Numbering Authority (CNA)

Links that redirect to external websites & will open a new window or tab depending on the web browser used.

To date, **361 CNAs** (359 CNAs and 2 CNA-LRs) from **40 countries** and 1 no country affiliation have partnered with the CVE Program. CNAs are organizations from around the world that are authorized to assign **CVE Identifiers** (**CVE IDs**) and publish **CVE Records** for vulnerabilities affecting products within their distinct, agreed-upon scope, for inclusion in first-time public announcements of new vulnerabilities. kernel.org is the 1937 Cl VNA from USA.

kernel.org's Root is the MITRE Top-Level Root.

News February 13, 2024



Two major components

Supply chain scanning

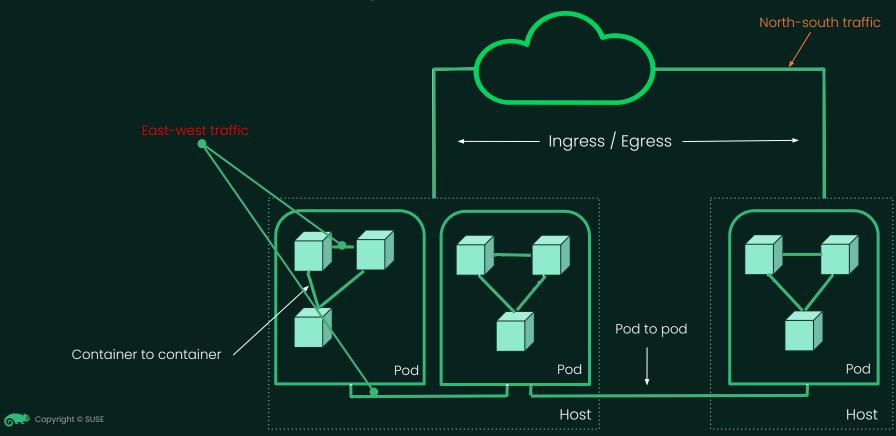
Vulnerabilities / Compliance

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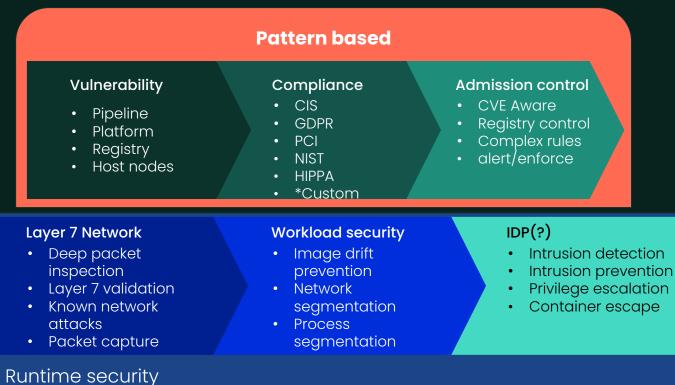
Network / Processes / File protection

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Kubernetes Networking



Supply chain scanning & Runtime security



To consider regarding runtime security

- ➢ Blacklist / Whitelist
- ≻ eBPF
- > Sidecar
- > Host agent
- > Image "agents"
- Cloud native / Security as Code



Supply chain security vs Runtime security

Comparing CI/CD vulnerability scanning to Zero-Trust runtime security

Supply chain security

- Requires CVE ID is published
- Requires CVE remediation
- > No protection vs. Zero-Day or insider
- Inconsistent Is the CVE a threat in my environment
- > Requires automation tools & integration
- > No control of actual runtime, proc, file or net
- Source code analyzers can't connect "sources & sinks" when analyzing dependencies in raw code.

Behavior-based Zero-Trust

- > Application behavior defines Zero-Trust rules
- No CVE # required, uses app behavior as signature
- No CVE Remediation? Zero-Trust blocks non-app behavior!
- Effective vs Zero-day, insider and unpatched CVEs
- > Full visibility of any proc, file and network
- Can block and/or alert any anomalous behavior and any source/sink correlation



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Enterprise-grade container security

Safeguard your cloud native applications from build to deployment with vulnerability scans, image assurance, runtime security and network segmentation.

Zero trust protection

Ensure your environment's integrity with strict policies that protect assets, control access and implement continuous verification.

Straightforward compliance

Achieve regulatory compliance and governance with built-in audits and reporting. Simplify incident investigations with real-time visibility across detailed logs and reports.

Easy integration with DevOps

Seamlessly incorporate robust security into existing DevOps workflows with automated security policies and CI/CD pipeline integration.





Thank you

For more information, contact SUSE at:

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