

Build a **trusted** software supply chain with Red Hat



Software supply chain security considerations for a DevSecOps practice



Securing The Software Supply Chain for Speed and Trust

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Software supply chain attacks: a matter of when, not if

Ransom paid but a mere fraction to the overall
downtime and recovery costs of a data breach



742%

average annual increase in
software supply chain attacks
over the past 3 years¹

45%

of organizations worldwide
will experience supply chain
attacks by 2025²

1 in 5

data breaches are due to
a software supply chain
compromise³

71%

YoY increase in cost
of average ransom
payment⁴

Just 7% are taking steps to review security risks in their supply chain ¹

94% of tech leaders say selecting the right security tools for their DevOps teams is challenging ²



Security headcount
and skills gap

Limited security expertise, standardize workflows to keep pace with releases



Security threats
change quickly

Manually making sense of issues in the face of alerts, suffering burnouts



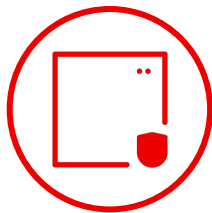
Security debt
remains high

Tool sprawl, context switching results in fragmented visibility, long downtimes.

Devs struggle to stay code compliant given high cognitive load¹

Platform engineer for security and compliance into the SDLC to mitigate and reduce risks

Prevent & identify
malicious **code**



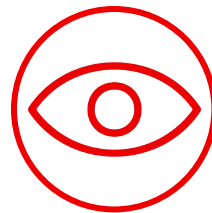
Confidence in
software integrity

Safeguard **build**
systems early

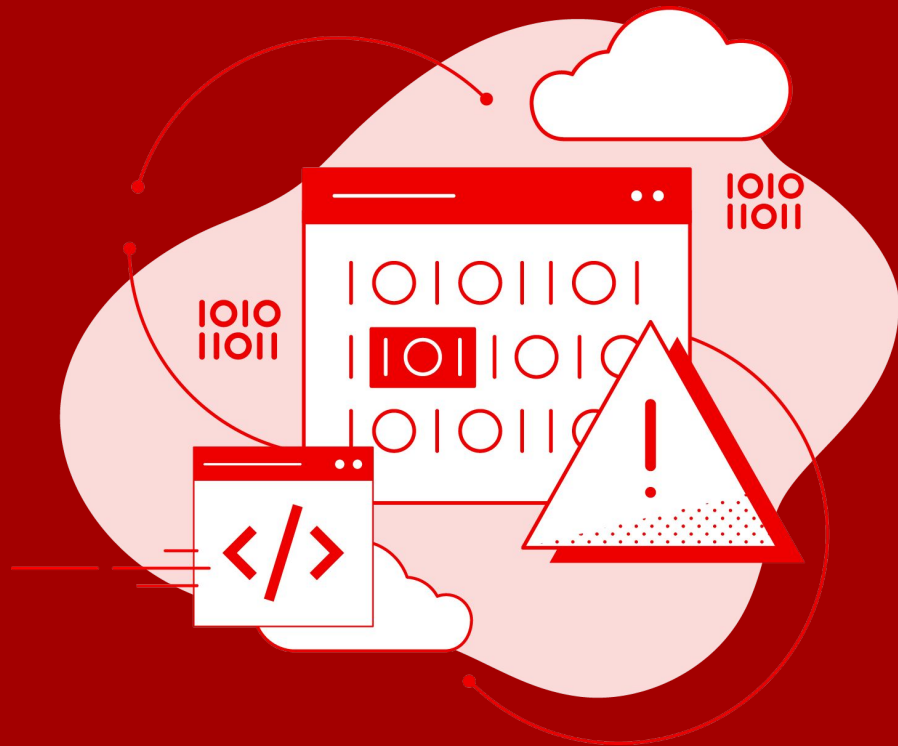


Adherence to
regulation/compliance

Continuously **monitor**
security at runtime



Enhanced trust with
customers/stakeholders



***Prevent and
identify malicious
code***

Catch application releases with security vulnerabilities

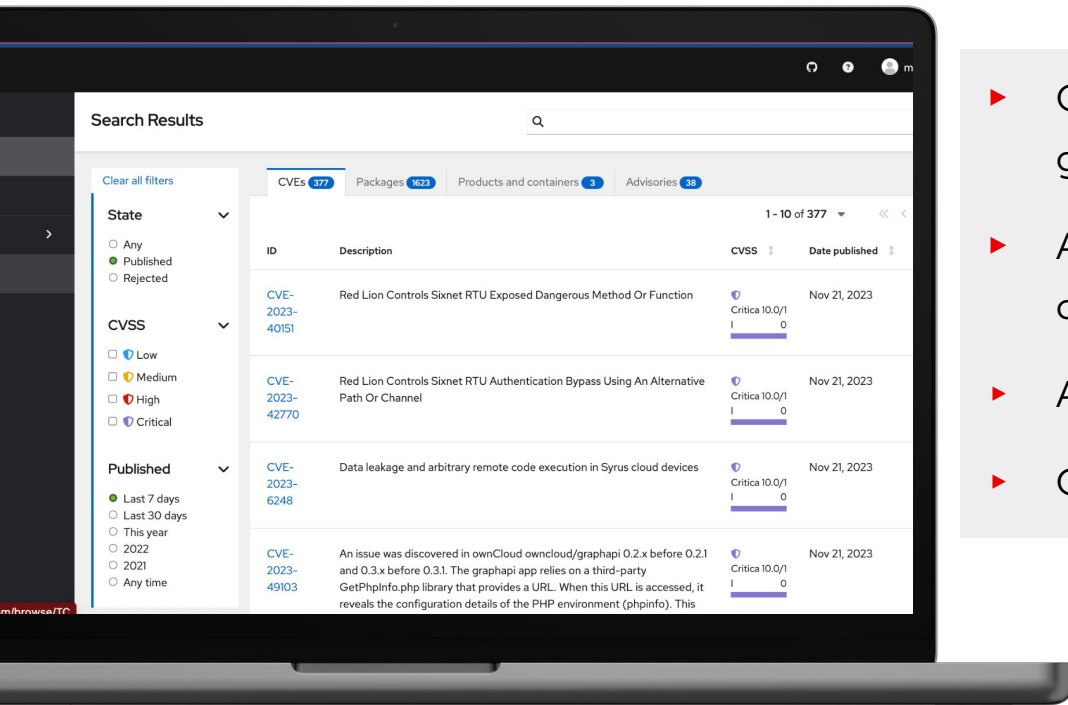


45% say software is released without going through security checks and/or testing¹.

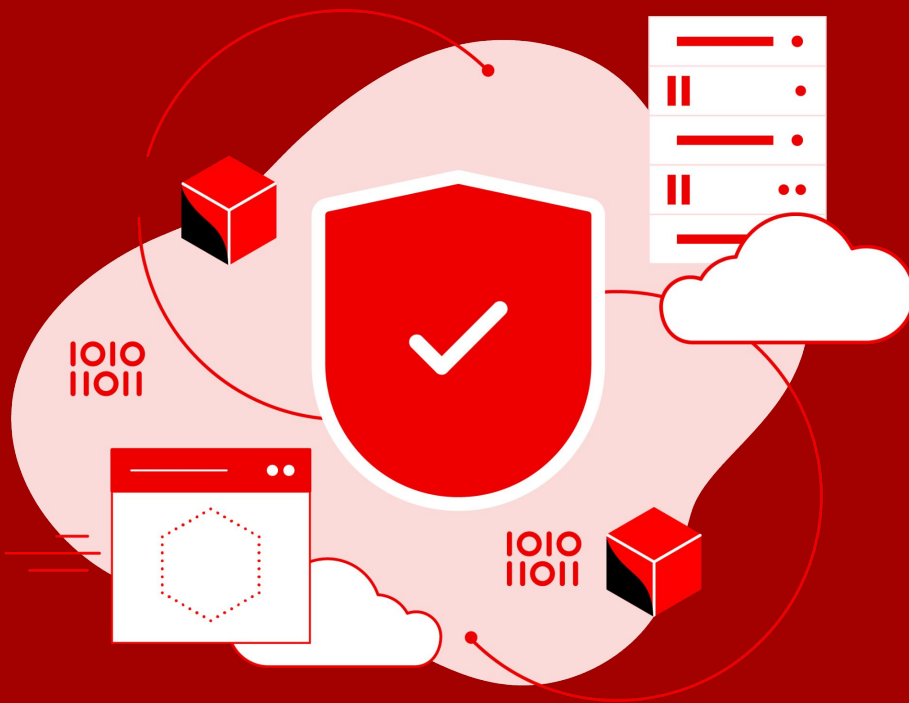
- ▶ 3 of 5 organizations indicate their developers are using separate security tools².
- ▶ 65% of developers identified image scanning and vulnerability management as an important security use case³.
- ▶ Over half of customers surveyed insist their developers use validated images⁴.

Code with integrated application security checks

Catch security issues early to avoid complexity of doing so in production

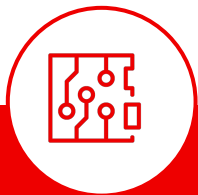


- ▶ Curate trusted content with security-focused golden solution templates and integrated checks
- ▶ Automated software composition scanning and dependency analytics
- ▶ Aggregated view with drill down on security health
- ▶ Cryptographic signing and verification



*Safeguard build
systems early*

Account for all packaged components, dependencies

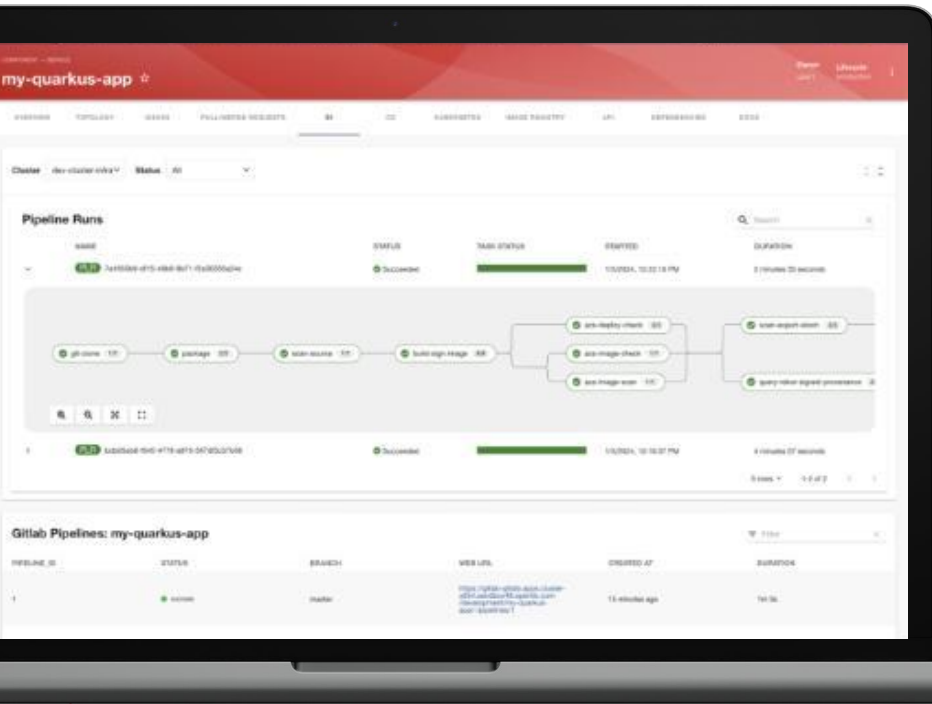


6 out of 7 project vulnerabilities come from transitive dependencies¹

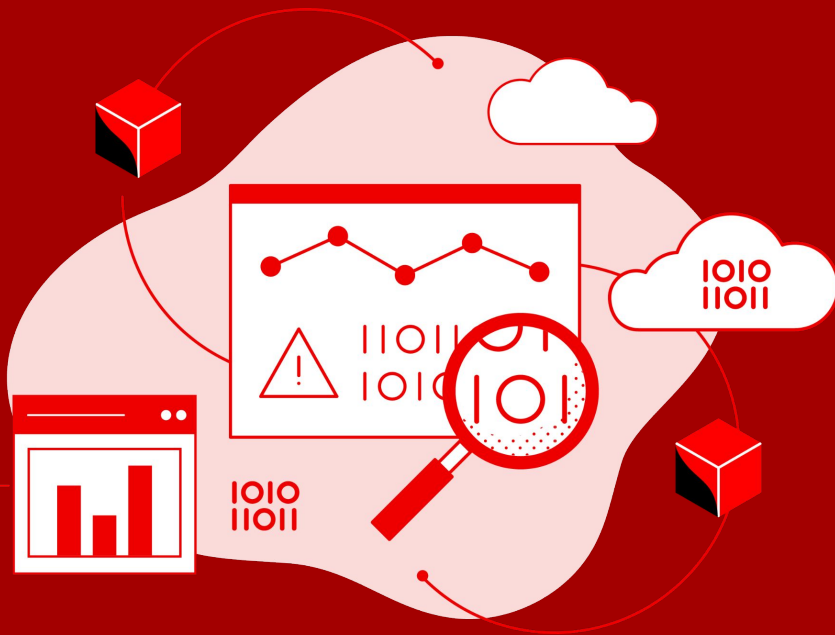
- ▶ Of the **1.2 billion** dependencies downloaded each month, **62%** had a transitive vulnerability²
- ▶ **73%** of organizations increased efforts to secure open source software only after an attack³.
- ▶ **60%** of organizations will mandate Software Bill of Materials (SBOMs) by 2025⁴

Build with security focused CI/CD workflows

Efficiently track and trace security issues to remain industry compliant



- ▶ Integrated security guardrails across pipelines
- ▶ Auto-generated Software-Bill-of-Materials (SBOM)
- ▶ Attestations and provenance checks
- ▶ Deployment based on policies to a declared state
- ▶ Continuous image vulnerability scanning



***Continuously
monitor security
at runtime***

Isolate critical alerts from the noise in real-time

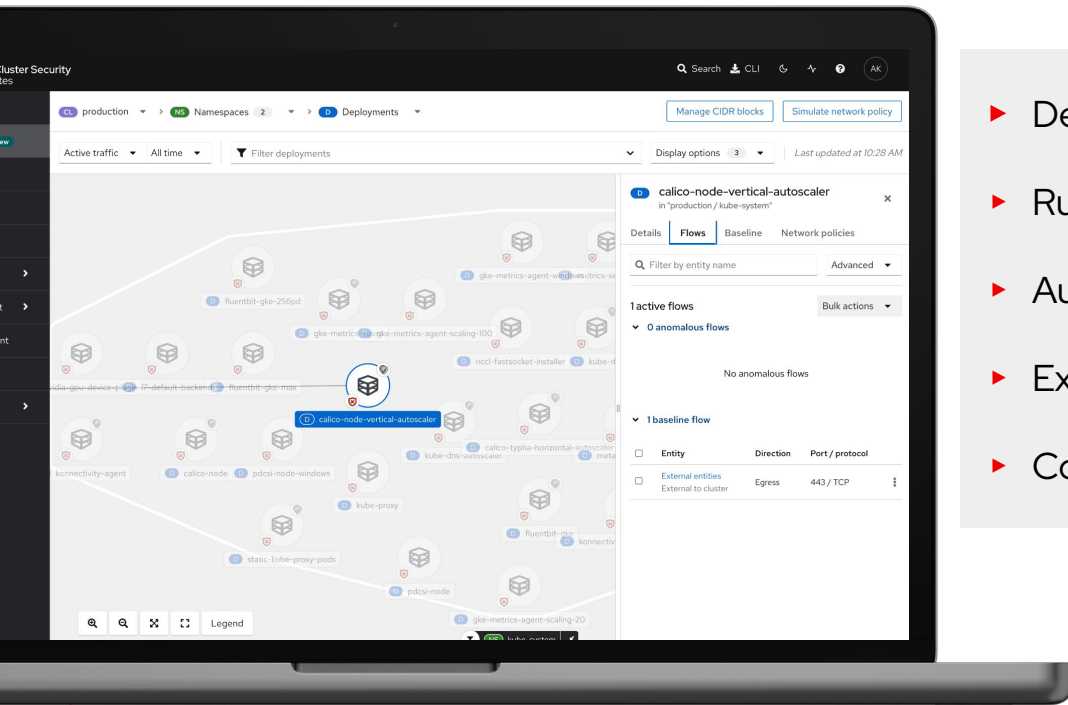


57% of surveyed worry the most about their runtime phase – for Day 2 operations¹

- ▶ Nearly **53%** of respondents have experienced a misconfiguration incident in last 12 months².
- ▶ **83%** say they are experiencing an increase in IaC template misconfigurations³.
- ▶ But only **28%** say they are scanning production environments for misconfigurations⁴.

Monitor and identify runtime security incidents

Proactively reduce time to resolution for consistent user experiences



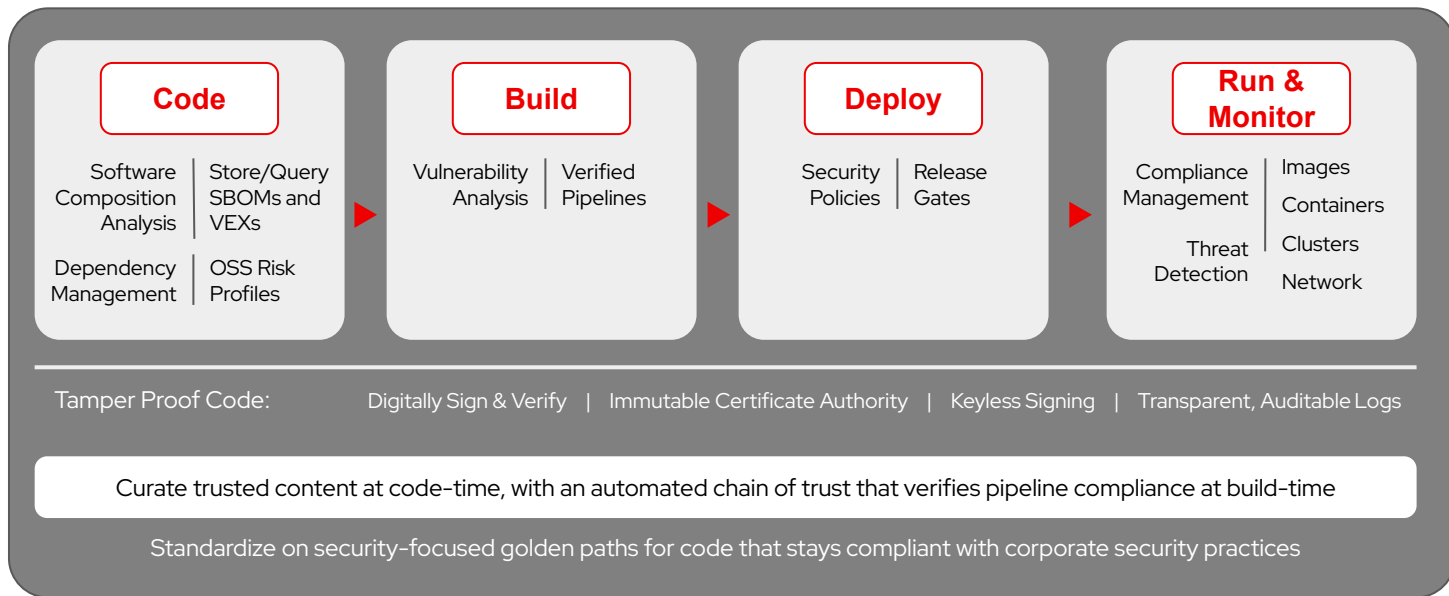
- ▶ Detect and respond to suspicious activity
- ▶ Runtime vulnerability scanning and management
- ▶ Audit for compliance across hundreds of controls
- ▶ Expedite incident response to reduce down times
- ▶ Continuous improvement from runtime to build

Code, build, deploy and monitor to a Trusted Software Supply Chain



Accelerate Innovation that Safeguards User Trust

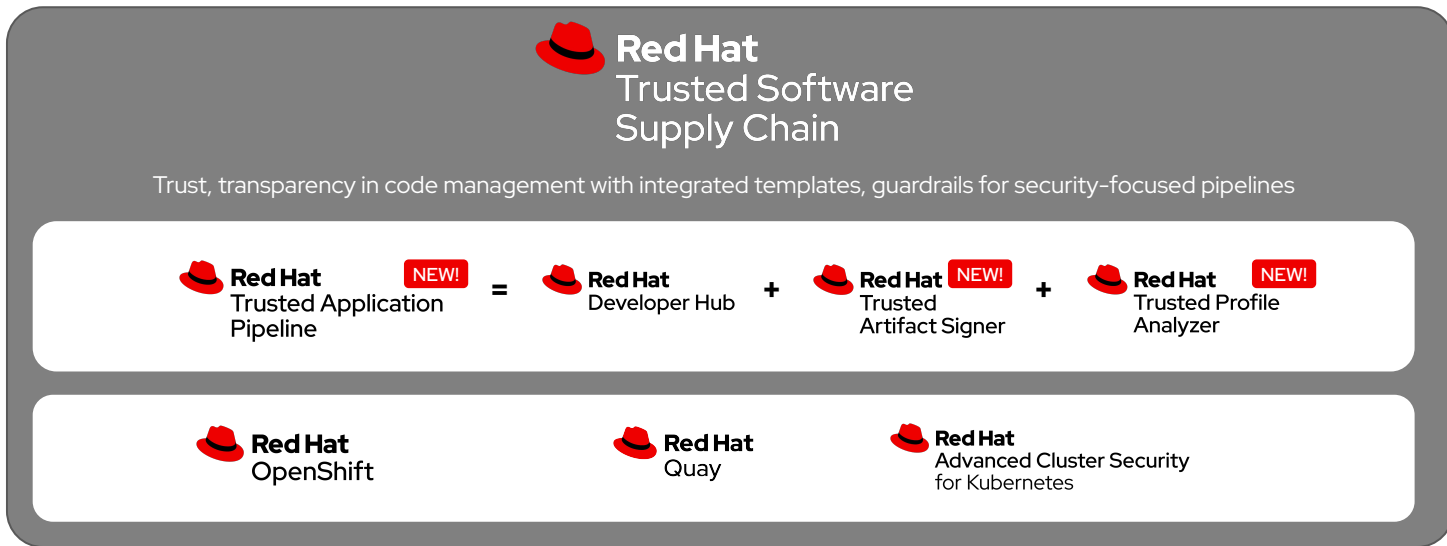
Delivered with integrated security guardrails at every phase of the software development lifecycle



Build and deploy platform, pipeline and applications as-code to an auditable, declarative state that's continuously monitored

Shift Left Security in the Software Supply Chain

Protect the components, processes and practices early in your software factory

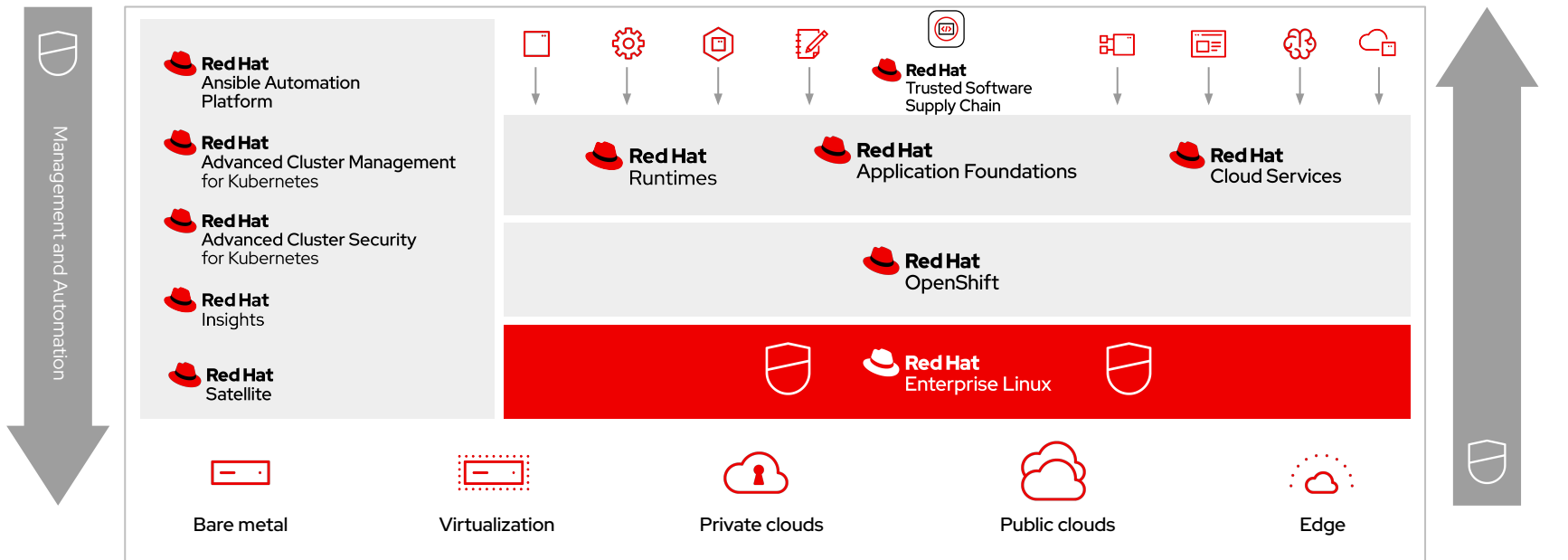


Roadmap items are subject to change without notice

*Note: **Red Hat Trusted Application Pipeline** is a single product SKU that includes RHDH, RHTAS, RHTPA.

Layered security throughout the stack and lifecycle

Build, deploy, and run applications on top of a hybrid cloud using DevSecOps practices





Enhance and extend security functionality

Build on Red Hat functionality through our **security partners** to better secure the entire DevOps life cycle.

- ▶ Increase Trust
- ▶ Reduce Risk
- ▶ Improve Compliance
- ▶ Enhance Collaboration
- ▶ Increase Agility
- ▶ Improve Quality

Application analysis	Identity & access management
SAST, SCA, IAST, DAST, Image risk	Authn, Authz, Secrets Vault, HSM, Provenance
Compliance	Network controls
Regulatory compliance, PCI-DSS, GDPR	CNI plugins, policies, traffic controls, service mesh
Data controls	Runtime analysis & protection
Data protection and encryption	RASP, production analysis
Audit and monitoring	Remediation
Logging, visibility, forensics	SOAR, automatic resolution



 Red Hat platform security
Secure host, container platform, namespace isolation, k8s and container hardening



Sign up today

- ▶ Choose Red Hat for your trusted software supply chain + DevSecOps
- ▶ Learn how Red Hat Trusted Software Supply Chain can help: red.ht/trusted

Demo



Thank you

