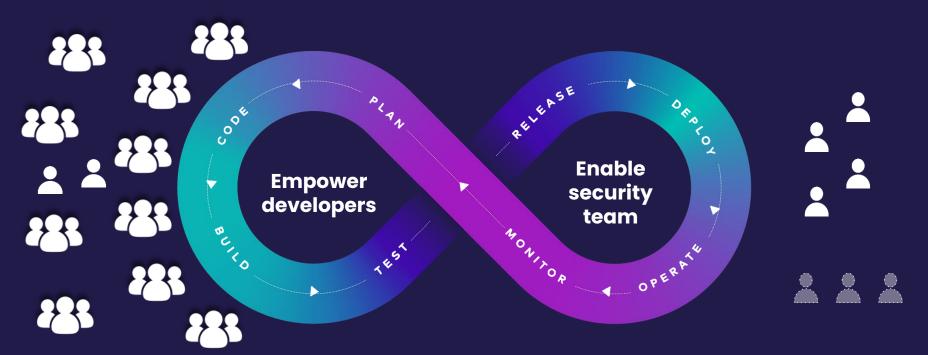


Develop fast. **Stay secure.**

DevOps requires dev first security

Empower developers to build applications securely within the entire development process



The modern application

A New Risk Profile

Deployed daily - waterfall approach doesn't scale. Scans can't take hours.

80% of vulnerabilities found in indirect dependencies

100s of Linux packages, and their vulnerabilities, inherited with base images

#1 cloud vulnerability is misconfiguration
[NSA]

App Code

Open Source Libraries

80-90% of codebase

10-20% of

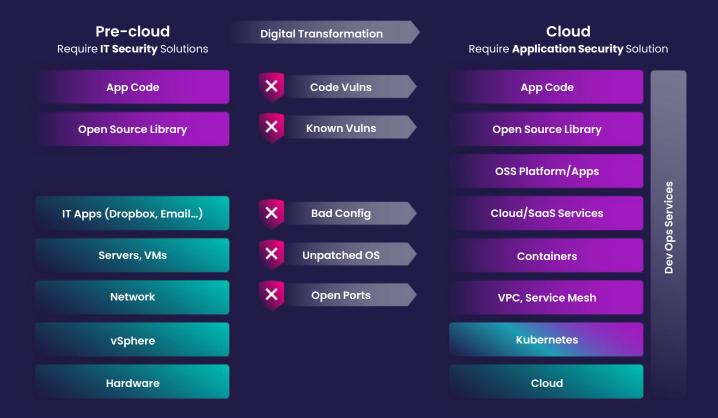
codebase

Containers

laC

Cloud turns IT into App Services





DevSecOps:

Code

Test & fix

submit

Continuous Security, Integrated throughout DevOps

Git repository

Test. fix.

monitor

build

CI/CD

Security **Production** gate Traditional/PaaS Serverless deploy Kubernetes Registry Test, fix, Monitor & more... monitor



Developer Security Platform



Founded on belief that developers can and should handle security

Snyk is all about DEV · Developers drive adoption! · Need to love it to use it · Otherwise 'work around it' snyk snyk.io

What does DEV product mean? · Self serve usage · Tight GitHub integration Robust CLI · Super clean CI/CD integration · Easy fix that doesn't require a lot of developer time and expertise Broad use in open source projects - leading indicator of "what's right" · Avoid mistakes of others designed to serve a central administrator first, and be pushed down on development. snyk.io snyk

Thank you!



snyk

Additional slides

Our expertise. Your success.

Continuously helping you make the most out of Snyk

Snyk's Customer Success programs provide the expertise and resources you need to successfully implement your application security program and maximize the return on your investment with Snyk.

Flexible

Get the right level of support for your team

Expert

Leverage Snyk's experience with developer-led application security

Ongoing

Realize value throughout your journey with Snyk



Snyk's Last 12 Months



Snyk Code - Find and fix vulnerabilities in application code in real time



Snyk Learn -Security education designed for developers

M&A









New Alliances







Partner Progress

- Partnered with Google on Assured Open Source program
- Snyk Technical Alliance Partner program launched with Atlassian, Sysdia, Docker, Hashicorp, Stackhawk
- Joined ServiceNow TAP program
- Strategic Atlassian partner exclusive first-party integration in Bitbucket Cloud
- OpsGenie integration
- Exclusive first-party integration with AWS CodePipeline
- Snyk vulnerability database powers Amazon Inspector, Dynatrace Application Security Module
- AWS Security Competency
- Red Hat Container Certification
- IaC integration with Terraform Cloud Enterprise

Product Enhancements

02 2021

- Snyk Team plan
- JetBrains IDE Support for Open Source and Code
- Project Attribute Policies
- Elixir Support for Open Source
- Maven plugin 2.0
- Code in Free Plan
- Critical Severity
- Snyk IaC CLI Terraform Plan Scanning
- GitHub Code Scanning Support for Open Source
- CloudFormation Support in IaC
- Container Kubernetes Workloads Automation
- Visual Studio IDE plugin for Open Source

04 2021

- Snyk Learn released
- Snyk Apps
- Snyk Open Source.NET remediations
- Snyk Open Source in VS Code
- Snyk Code Local Engine Beta
- Snyk IaC ARM file support
- Acquisition of driftctl
- Snyk IaC Custom Rules
- Snyk Open Source fixes in CLI

Q3 2021

- Malicious Packages
- Container Automatic Base Image Detection
- Social Trends
- Snyk Policies
- Snyk Code Python and PHP
- Snyk Code Priority Score
- Jenkins plugin
- Additional Container Registries
- Improve Reachable Vulnerabilities(Java)
- Snyk IAC CLI Ignore
- New Smaller and Faster CLI

O12022

- Unmanaged C/C++ in Snyk Open Source
- IaC, Container, and Snyk Advisor in JetBrains
 IDEs
- Native integration with Atlassian Bitbucket
- IaC drift management
- IaC integration with Jira and central reporting
- Terraform variable support
- All Snyk products available self-serve
- Self-serve SSO



Snyk helps companies develop fast & stay secure



Customers

1800+



Quarterly Tests

332M+



Raised

\$850M



Globally Distributed

13 Hubs

Remote Snykers all over the world

PROTECTED BY SNYK

Google

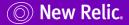




















Driven By Strong Values



Care Deeply



One Team



Ship It



Think Bigger

And Committed to ESG

Snyker Impact

Snykers' volunteering and mentorship of non-profits

Snyk Technology Impact

Snyk product donations and discounts to non-profits

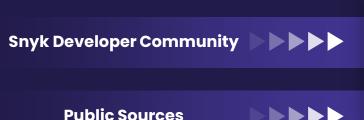
Snyk Community Impact

Donations to diversity-leading non-profits at DevSecCon

Snyk Business Practices

Commitment to carbon neutrality

Snyk Intel Provides Cutting-Edge Security Intelligence







Proprietary Research



Machine Learning

Find More

>3x

More vulnerabilities covered than next publicly available database

Know Sooner

>92%

Of JavaScript vulnerabilities in National Vulnerability Database were added to Snyk Database first

Identify Accurately

Low False Positives

Thanks to continuous and deep quality controls

Fix Smarter

Remediation **Insights**

Hand-curated data and enriched metadata to guide prioritization and remediation decisions

Trusted by



























Integrated with development tools







Fortify SSC





































GitHub





CircleCI













npm Enterprise

Private Registry



Kenna Security







buildah

Enterprise











Cloud

Foundry

Heroku





Amazon ECR



PhpStorm



GO

Eclipse

Bitbucket

Cloud







TeamCity







Google Container Artifactory Reaistry



Snyk API











Repos



GitLab











Docker

Hub







IntelliJ



Source Control

CI/CD

Runtime

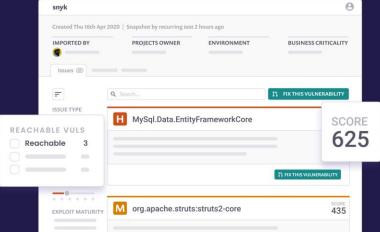
Registries

Issue Management

Developer-first prioritization

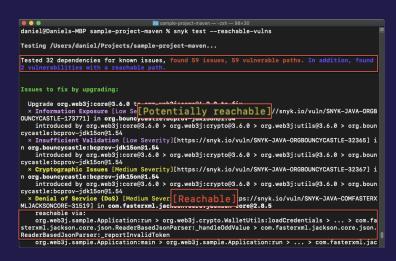
Focus remediation efforts on the issues posing the greatest risk

Instant prioritization



Priority scoring and exploitability indicators for fast and accurate triaging

Deep application context



Reachability indicators for context-informed prioritization



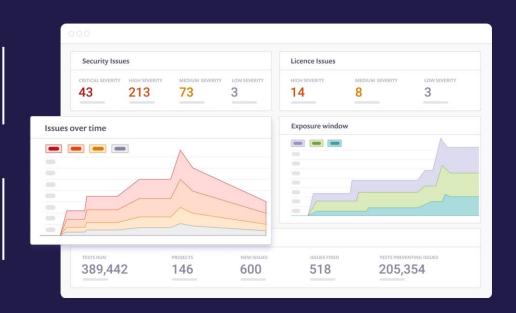
Governance at scale

Overall security status

Monitor the risk and exposure over time and the actions taken to secure

Dependency health

Track overall health status, identify the deprecated packages and take action accordingly



Actionability

Find issues with available solution, filter and implement automatically.

Policies

Manage security and license compliance using automated and fully-customizable rules.

Project management

Manage your security and legal posture across your different projects more efficiently.



How customers implement Snyk

Get alerts or automated Jira tickets when a new vulnerability is discovered

Automatically fix:

Get a PR with the required fix, patch or auto upgrade - all ready, just merge

Security gate

Production

Merge code:

Check for vulns and license issues as part of the merge in the repo. Prevent PR based on policies. Can create Jira tickets for new vulns

Build:

Check for vulns and license issues automatically as part of the build process. Prevent build from being completed based on policies.

deploy

Serverless

Traditional/PaaS

Kubernetes

Registry

Code



Test & fix

Git repository



Test, fix, monitor





Test, fix,



Monitor & more...

Snyk Extensibility & API

Tune Snyk's security automation to fit into existing development workflows

- User-friendly and easy to implement
- Client libraries for Python, Ruby, Go, PHP, JavaScript
- Supported across Snyk products
- Tech solutions for custom requirements





Security management at scale



Vulnerability monitoring



Incident management





API is an important requirement for us when deploying new tools. We believe in actionability and making it as easy as possible for developers to take action, and Snyk's API enabled us to build a tool that integrates security into the processes developers are already using.

Flexible deployment options to meet your business needs

Provided as Software-as-a-Service (SaaS), Snyk's deployment options offer ease of use and scalability while also providing the required level of data protection.

Snyk developer security platform









As multi-tenant SaaS

The simplest and most cost-effective way to use Snyk's developer security platform

As single-tenant SaaS

Private Cloud on AWS - an isolated instance of the Snyk developer security platform.

- Data encryption in transit & at rest
- GDPR, Soc 2, ISO 27001/270017

- Data residency (US, EU)
- Single Sign-On

- **Audit logs**
- 99.9% uptime SLA









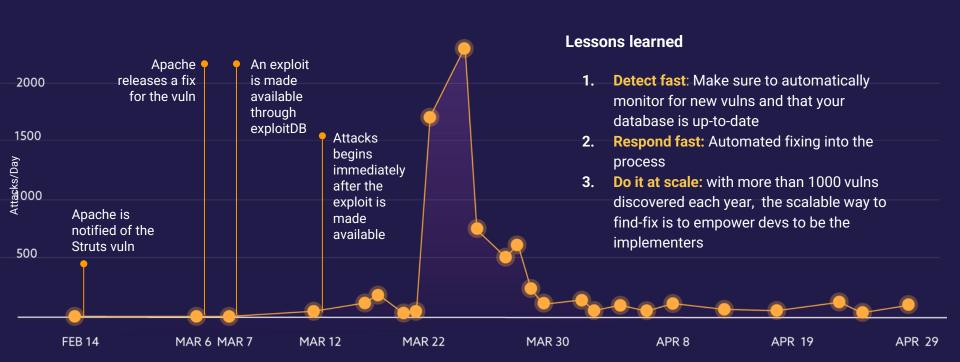




Lessons learned from Apache Struts: a vulnerability that lead to a real-life hack



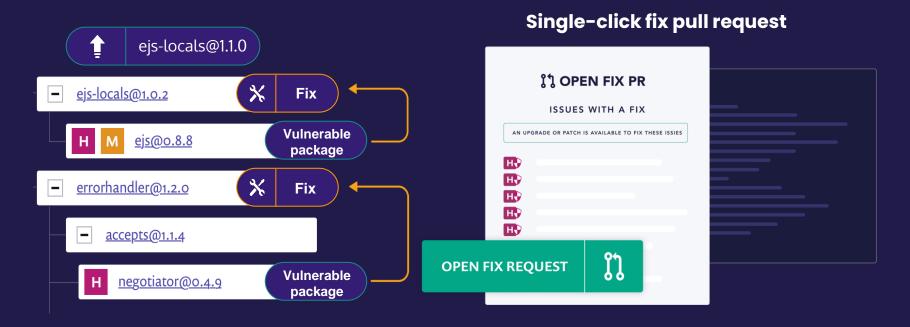
Apache Struts (CVE-2017-5638) attacks timeline: +150M People had highly personal data exposed



Snyk products



Automated Remediation Solving the complex fix logic



Be license compliant as early as coding

Start early

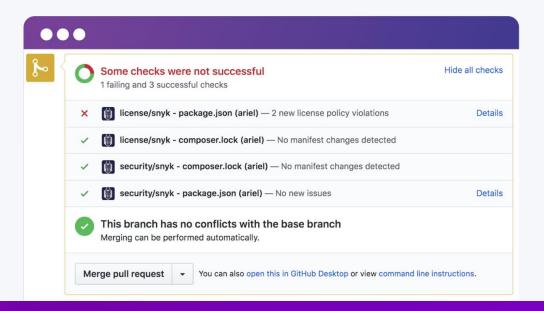
Verify compliance at every stage of development

Scan

Get visibility to all the licenses that are being used.

Comply

Define policies and take automatic actions to verify compliance.



Copyright info

BOM report

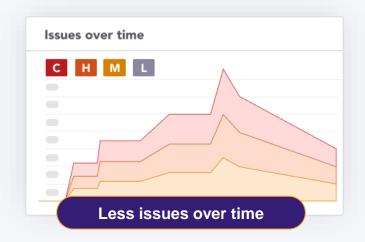
Policies

Gating non-compliant packages

Legal team actionable instructions

Automated Remediation

Fix MORE issues, QUICKER





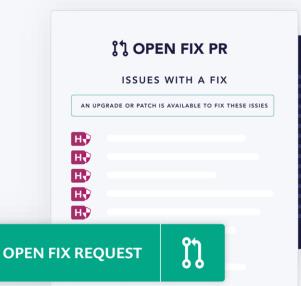


Accelerating MTTF (mean time to fix)

Automated RemediationAutomation and patching

Single-click fix pull request

Automatically calculates the minimal direct dependency version upgrade needed





Uniquely developed and tested patches

- backporting the original fix, tested rigorously
- minimal changes required without breaking changes



Of vulnerabilities instances can't be fixed by an upgrade



patches are applied each month by Snyk's customers



Snyk Intel Vulnerability DB - data and insights



Enriched data from numerous vulnerability databases

Such as CVE, NVD and more. Data derived from these resources is analysed, tested and enriched, before being included in the database



Proprietary research for new vulnerabilities

Our Security team is working to uncover severe vulnerabilities in key components -66 zero-day vulnerabilities discovered in 2021



Threat Intelligence systems

Listen to chatter on security bulletins, Jira boards, Github commits; to automatically identify vulnerabilities yet to be reported. For example, Apache Airflow and Marked



Community relationship

Snyk collaborates with the community and operates bug bounties for new disclosures, resulting in hundreds of community disclosures, such as f2e-server



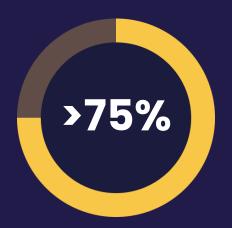
Collaboration with academia

The team partners with PhD academia labs such as Berkeley, Virginia Tech and Waterloo, to exchange tools, methods and data. Findings are then exclusively disclosed by Snyk

Snyk products



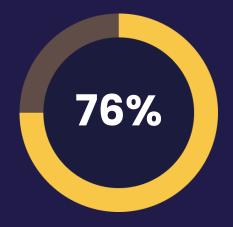
Containers are fast becoming mainstream, but vulnerabilities often go unchecked



of global organizations will be running containerized applications in production by 2022



The top 10 most popular images have more than 30 vulnerabilities



of the top 1,000 Docker containers have severe known vulnerabilities

Snyk Container

Build and maintain secure containers



Detecting

container vulnerabilities throughout the development process



Remediating

automatically to minimize exposure and reduce time-to-fix



Monitoring

continuously, and protecting the image after the initial scan

Detecting container vulnerabilities throughout the development process

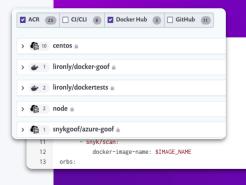
- Application vulnerabilities
- Operating system vulnerabilities
- Kubernetes configuration issues



Start early, test images locally



Find vulnerable workloads in Kubernetes clusters



Integrate security into your CI/CD pipelines and container registries and test as you build



Remediating automatically to minimize exposure and reduce time-to-fix

VULNERABILITIES

169

104

90

47

HIGH SEVERITY

Current image

Minor upgrades

Major upgrades

Alternative upgrades

• Improper Input Validation

Vulnerable module: bash

Introduced through: bash@4.3-11+deb8u1

Recommendations for base image upgrade

Fixed in: 4.3-11+deb8u2

Dockerfile instruction: Introduced by your base image (node: 6.14.2-slim)

BASE IMAGE

node: 6.14.2-slim

node: 6.17.0-slim

node:11.15.0-slim

node:12.8.0-buster-slim

Get straight to the version of the package which fixes the vulnerability

Follow base image recommendations to reduce your total vulnerability exposure

Open pull requests for updating base images in the Dockerfile.

Open a fix PR

githuh.com/snyk

Vulnerabilities with a fix

An upgrade or patch is available to fix the vulnerable dependencies.

- H Regular Expression Denial of Service (ReDoS) in debug
- H Content & Code Injection (XSS) in marked
- H Regular Expression Denial of Service (ReDoS) in fresh

☼ OPEN A FIX PR

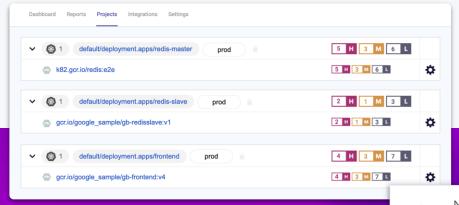


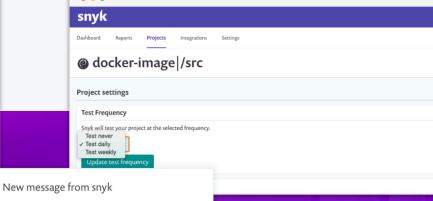
Monitoring continuously to protect the image after the initial scan



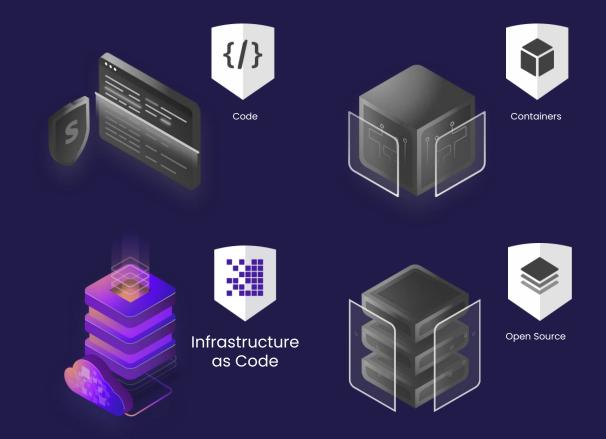
Monitor your Kubernetes application for insecure configurations, prioritise accordingly

Monitor your images for newly discovered vulnerabilities

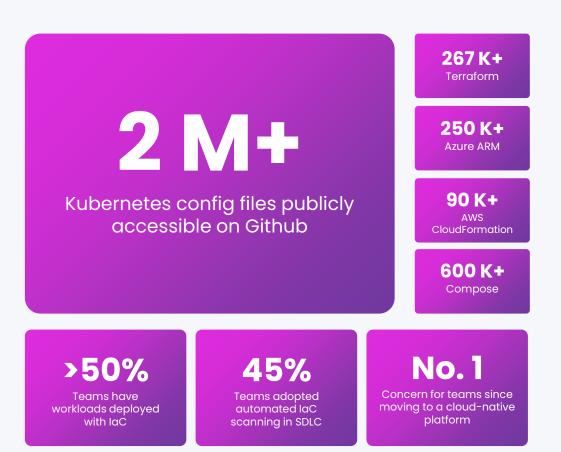




Snyk products



IaC Growing usage and risks

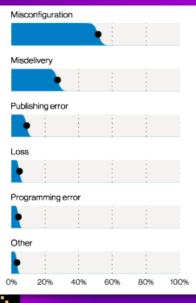


Snyk State of Cloud Native Application Security Report. 2021.

Misconfiguration of database assets is a growing problem.

-Verizon DBIR 2021





67%

Of misc. error incidents caused by misconfiguration

619

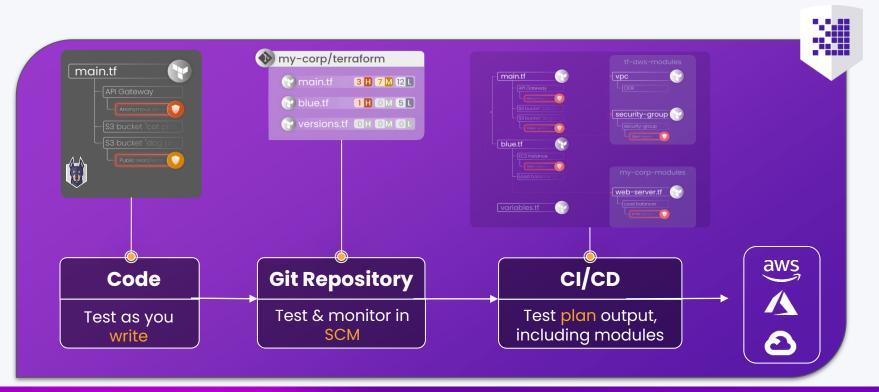
Breaches due to misconfigurations alone in 2020-2021

#6

On the list of top action varieties involved in breaches

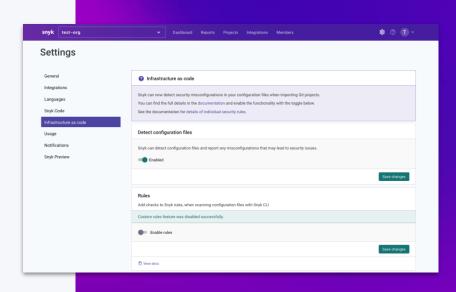
Infrastructure Security Built for Developers

Write, Plan and Apply IaC Securely



Securing against industry best practices and CIS benchmarks

- Industry best practice rulesets for Terraform, CloudFormation, ARM, and Kubernetes formats and AWS, Azure, and GCP.
- Expanding ruleset backed by CIS benchmarks and threatmodelling research by Snyk security engineers.
- Open Policies powered by Rego.



Detecting misconfigurations throughout the infrastructure lifecycle

Prevent misconfigurations from reaching production by fixing issues at the source.

Maximize developer adoption with integrations keeping them in their preferred workflows.

Monitor for cloud infrastructure drift and unmanaged resources in your cloud environments.

```
$ snyk iac test deployment.yaml
Testing deployment.yaml...

Infrastructure as code issues:
    X Container is running as root [High Severity]
[SNYK-CC-K8S-10] in Deployment
    introduced by input > spec > template > spec >
containers[snykit] > securityContext > runAsNonRoot
```

Start early in the development process, test IaC locally or in the IDE

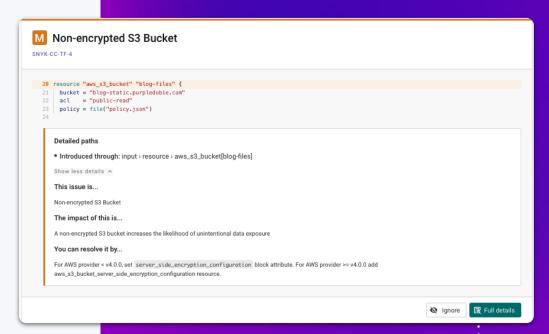
Quickly import Git repositories into Snyk. Automate importing of new projects using the powerful Snyk API.

Streamline security & compliance in Terraform with our run tasks integration



Empowering developers to secure their cloud & app configurations

- Zero developers in on the critical issues with actionable fix advice.
- Issue, impact, and remediation shown directly in line with misconfigured code
- Severity scoring and linked policy violation for greater security context on the issue

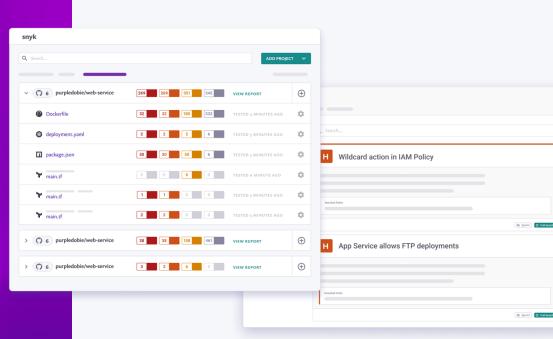




Snyk laC

Code to cloud, and back to code

- Maximize developer adoption- seamless integrations into developer workflows, minimizing downtime and navigation through security tooling.
- **Secure against the best-** enforce best practice security rulesets, custom policies, and compliance frameworks from code to CI/CD.
- Drive faster remediation deliver actionable fix guidance on the riskiest issues to developers, inline with code.
- Centralized insights and reporting gain visibility into configuration issues with reports available on misconfiguration status overtime.

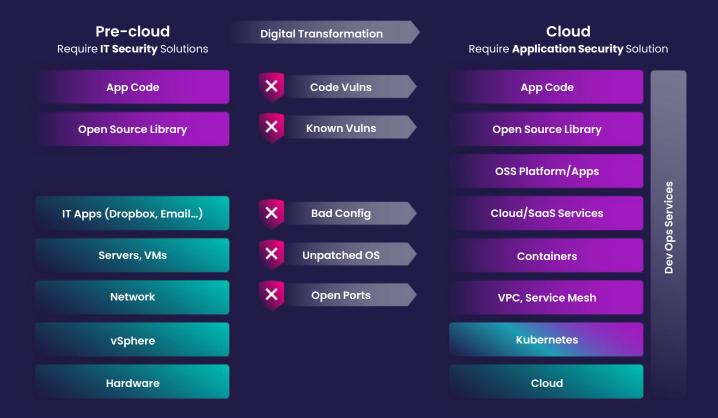


Snyk Cloud

Following four slides explain the vision behind the Fugue acquisition and the direction of the future Snyk Cloud product

Cloud turns IT into App Services

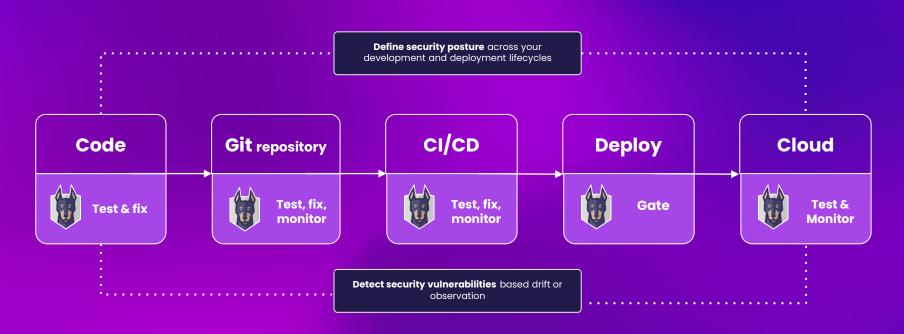






Code to Cloud, and back to Code:

Secure from your desired state in code to your realtime state in the cloud







Code to Cloud, and back to Code:

Empower Cloud security, Security, and Development teams with visibility across their estates

How secure is **all** of my organization's infrastructure?

All Apps



Test & Monitor

Developer

Code

Test & fix

Git repository



Test, fix, monitor CI/CD



Test, fix,

Deploy



Gate

App on Cloud



Test & Monitor

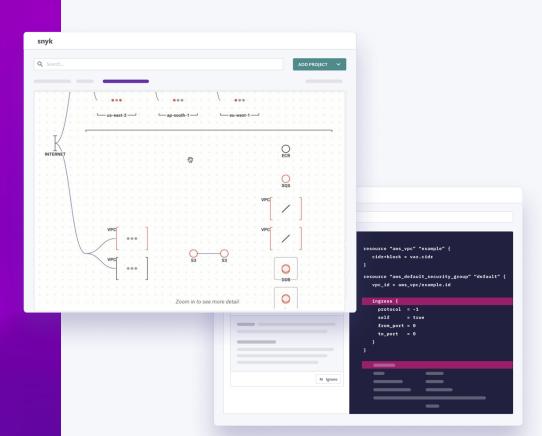
How secure is my application's infrastructure across my development pipeline?



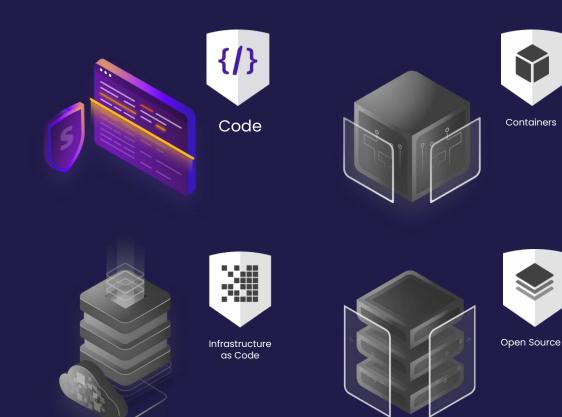
Snyk IaC + Cloud

Code to cloud, and back to code

- **Developer First-** bring production insights left to improve the developer experience with
 - Security issue context
 - Actionable fix advice
- Holistic application view enable developers to take ownership of their application security from writing IaC files in their IDE to the real-time state of the cloud
- Faster remediation close the feedback loop between cloud and production security insights and developer workflows
- Reduce the most risk- prioritize issues based on risk, not just finding the most amount of issues



Snyk products

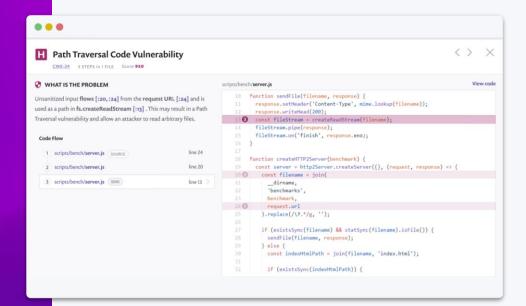




Snyk Code

- Integrated Platform Snyk offers all elements for a modern software supply chain
- Dev Friendly Works how and where developers work
 - IDE and Git integration
 - Actionable fix recommendations based on real-world data.
- Real-Time 10 50x faster than traditional SAST solutions enables securing while developing vs afterwards
- Improve Accuracy Machine learning algorithms continuously trained on the world's code to unveil security and performance bugs

SAST Re-imagined as a dev-first solution

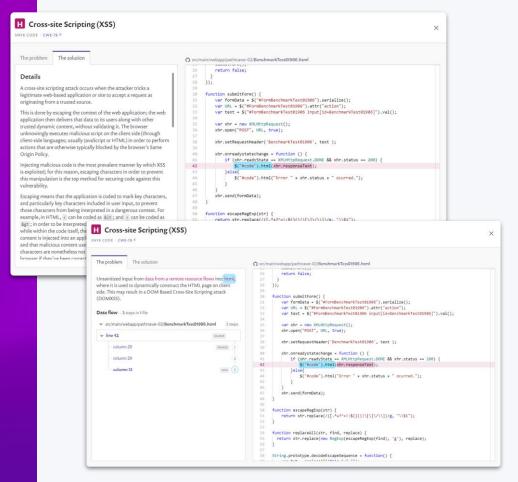




Snyk Code

SAST Re-imagined as a Dev-first solution

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- Unparalleled Accuracy Machine learning algorithms trained on the world's code reduces false positives to near-zero



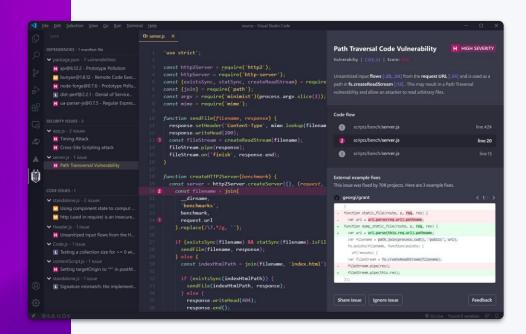




Snyk Code

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Deprecated Slides

These slides are from older versions of the Intro Deck and are set to be deleted from future revisions of this deck.