



Kubernetes DevSecOps

Peek Into

Secure Software Supply Chain

for Kubernetes



Oct 19th, 2022

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Container Advantages in Security



Containers are short lived and frequently re-deployed; you can constantly be patching.



Containers are intentionally immutable; a modified container is a built-in security alert.



Good security defaults are one line changes; setting secure configurations is easy.



With isolation technologies, you can increase security without adding resources.

Agenda

- 01 Security Challenges from OSS: 開源軟體對資安的挑戰

- 02 SDLC & SBOM & SLSA: 社群的努力

- 03 Software Delivery Shield: 平台部署+持續防護

- 04 Software Delivery Shield End-to-End 的實現

Agenda

01 Security Challenges from OSS: 開源軟體對資安的挑戰

02 SDLC & SBOM & SLSA: 社群的努力

03 Software Delivery Shield: 平台部署+持續防護

04 Software Delivery Shield在GCP上的實現

On the rise

Supply Chain Attacks

Increasingly, the software development lifecycle (SDLC) itself has become a vector for attacks.

The recent **Log4Shell**, **SolarWinds**, **Kaseya**, and **Codecov** hacks highlight vulnerable surface areas exposed in the SDLC.

650 %

Surge in OSS supply chain attacks ¹

81 %

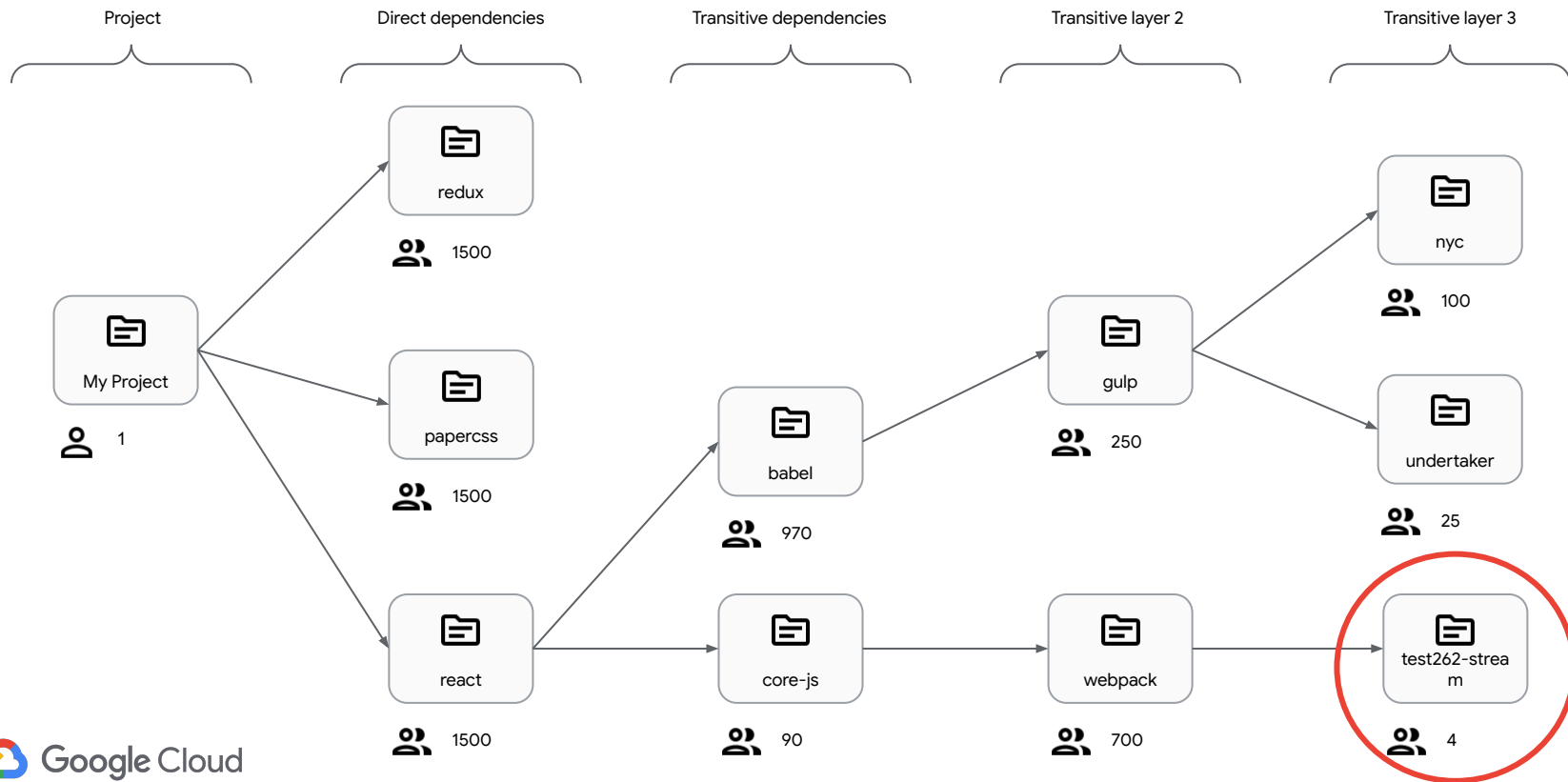
Commercial code bases have OSS vulnerabilities ²

45 %

of organizations worldwide will have experienced attacks on their software supply chains by 2025 ³

1. Sonatype, 2021 - State of the Software Supply Chain
2. Synopsys, 2022 - Open Source Security and Risk Analysis Report
3. Gartner, 2021 - How Software Engineering Leaders Can Mitigate Software Supply Chain Security Risks

站在巨人肩膀上的代價：開源軟體的高依存性



Open Source Insights is an experimental project by Google.

open / source / insights

About Documentation Blog

Understand your dependencies

Your software and your users rely not only on the code you write, but also on the code your code depends on, the code *that* code depends on, and so on. An accurate view of the complete dependency graph is critical to understanding the state of your project. And it's not just code: you need to know about security vulnerabilities, licenses, recent releases, and more.

Search for open source packages All systems ▾ Search

- npm** PACKAGES: 2.14M
- Go** MODULES: 899k
- Maven** ARTIFACTS: 500k
- PyPI** PACKAGES: 387k
- Cargo** CRATES: 94k
- NuGet** PACKAGES: Coming soon

NEW

BigQuery Public Dataset

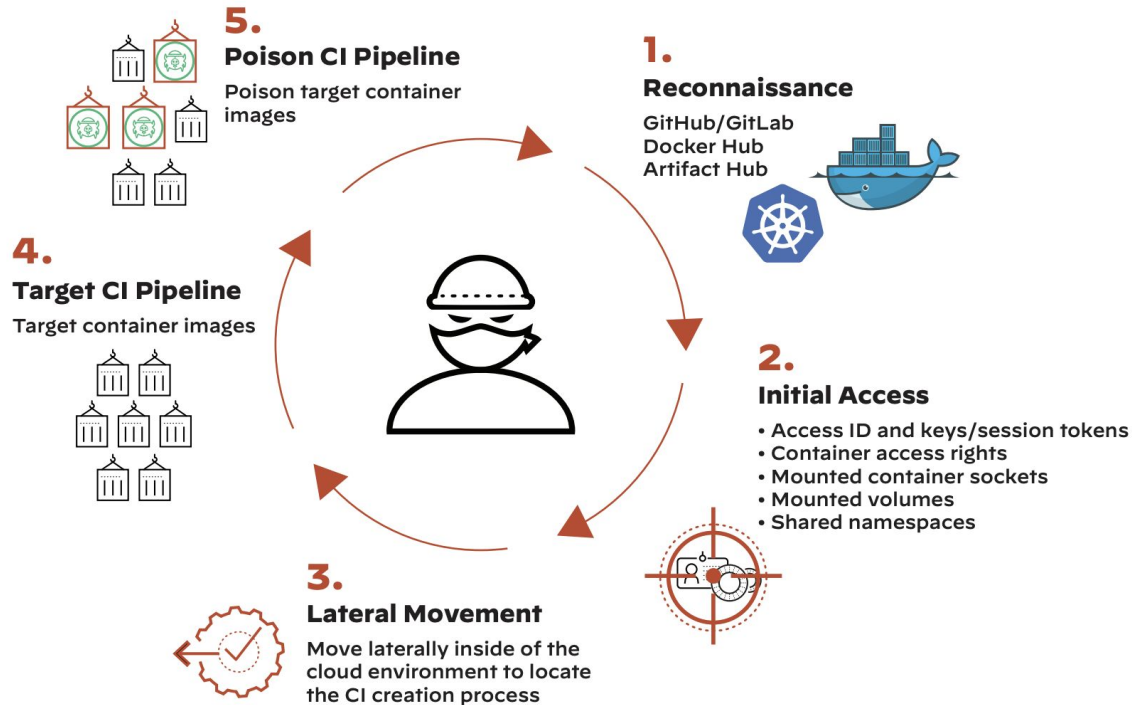
The data that powers this website is now also available as part of the [Google Cloud Public Dataset Program](#), and can be explored using BigQuery.

For more information, please check out the dataset on the [Google Cloud Platform Marketplace](#), or have a look at the [schema documentation](#).

Job ID	System	License	Package Name	Version	Dependencies
1	CARGO	MIT	Apache 2.0 OR MIT	35794	
2	CARGO	Apache 2.0 OR MIT	MIT	22178	
3	CARGO	Apache 2.0	MIT	9626	
4	GO	MIT	MIT	899k	
5	GO	Apache 2.0	MIT	899k	
6	GO	BSD-3-Clause	MIT	899k	
7	MAVEN	Apache 2.0	MIT	500k	
8	MAVEN	MIT	MIT	500k	
9	MAVEN	non-stadard	MIT	500k	
10	NPM	MIT	MIT	2.14M	
11	NPM	ISC	MIT	2.14M	
12	NPM	Apache 2.0	MIT	2.14M	



CI Pipeline 的攻擊手法



容器開發生命週期

Proprietary + Confidential



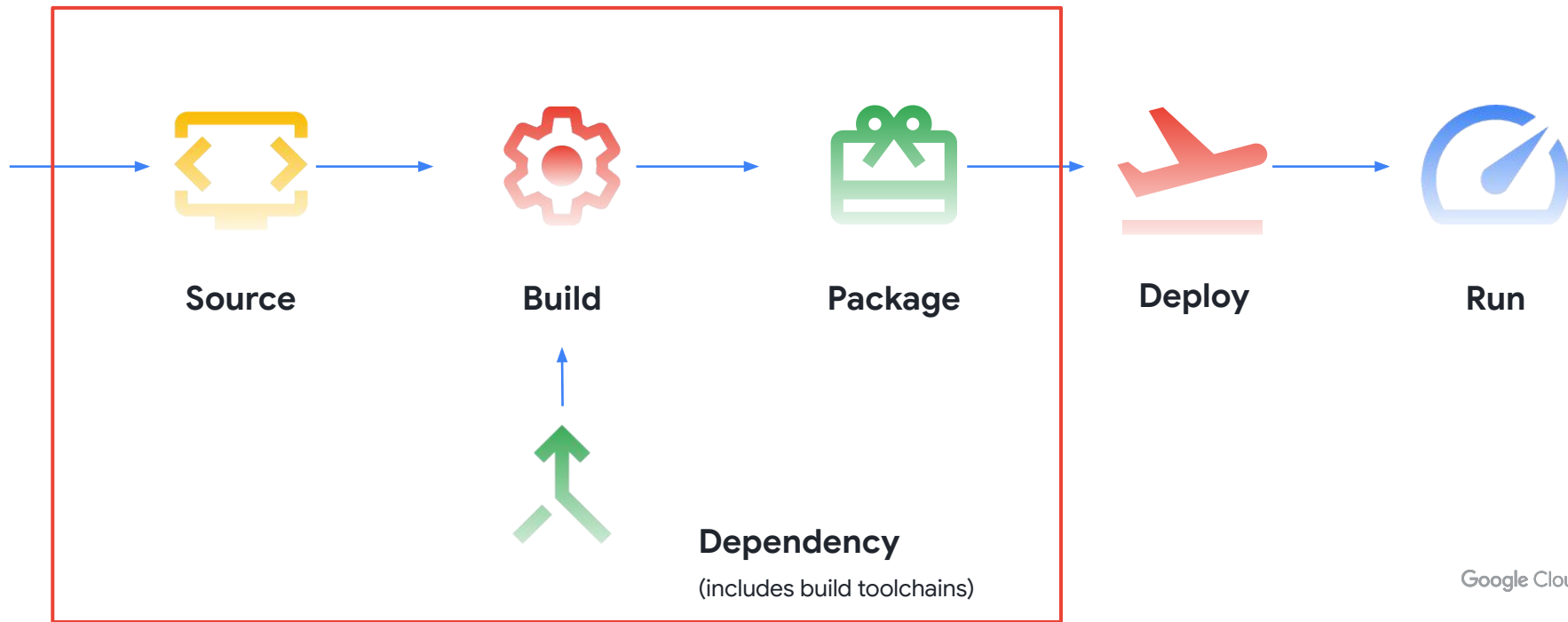
Dev



DevOps



SecOps



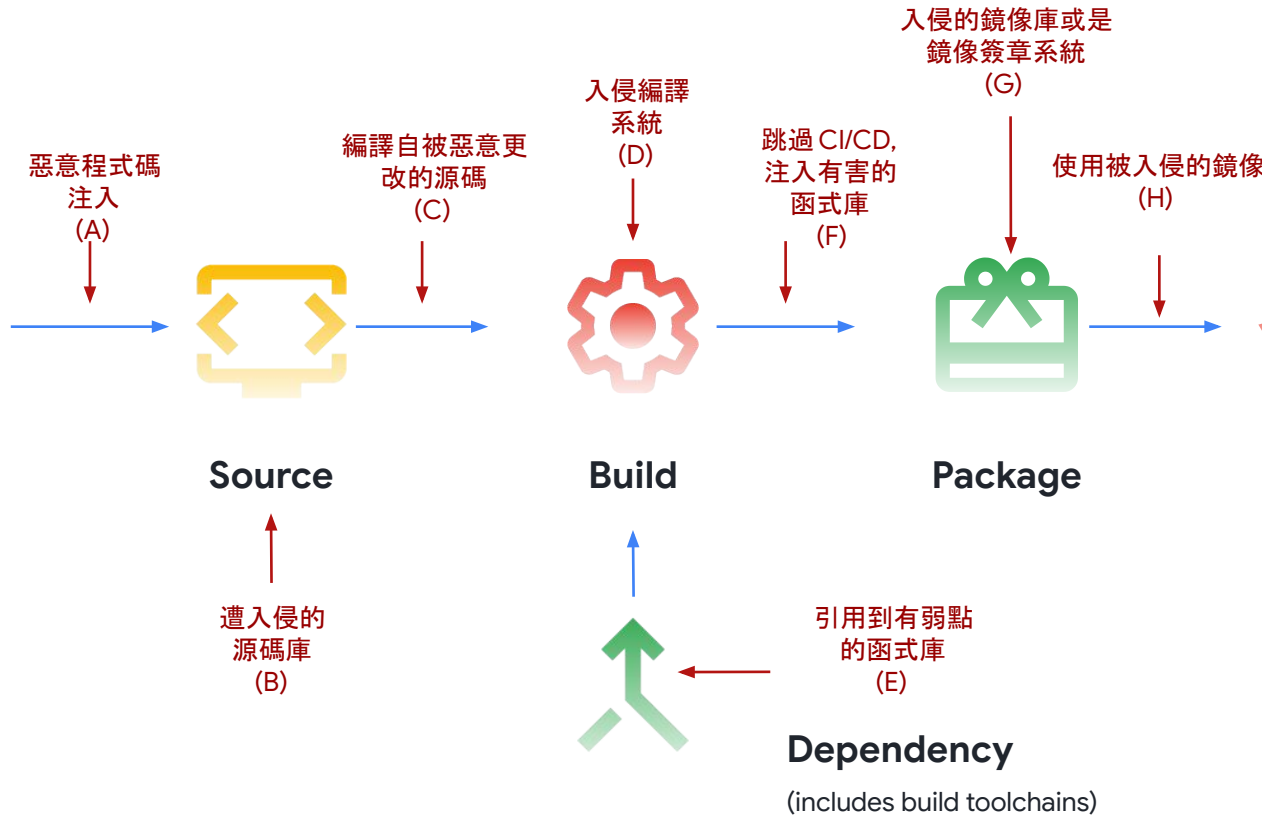
攻擊介面 (Attack Vectors - Build)



Dev



DevOps



	Integrity threat	Known example	How SLSA can help
A	Submit unauthorized change (to source repo)	Linux hypocrite commits: Researcher attempted to intentionally introduce vulnerabilities into the Linux kernel via patches on the mailing list.	Two-person review caught most, but not all, of the vulnerabilities.
B	Compromise source repo	PHP: Attacker compromised PHP's self-hosted git server and injected two malicious commits.	A better-protected source code platform would have been a much harder target for the attackers.
C	Build from modified source (not matching source repo)	Webmin: Attacker modified the build infrastructure to use source files not matching source control.	A SLSA-compliant build server would have produced provenance identifying the actual sources used, allowing consumers to detect such tampering.
D	Compromise build process	SolarWinds: Attacker compromised the build platform and installed an implant that injected malicious behavior during each build.	Higher SLSA levels require stronger security controls for the build platform, making it more difficult to compromise and gain persistence.
E	Use compromised dependency (i.e. A-H, recursively)	event-stream: Attacker added an innocuous dependency and then later updated the dependency to add malicious behavior. The update did not match the code submitted to GitHub (i.e. attack F).	Applying SLSA recursively to all dependencies would have prevented this particular vector, because the provenance would have indicated that it either wasn't built from a proper builder or that the source did not come from GitHub.
F	Upload modified package (not matching build process)	CodeCov: Attacker used leaked credentials to upload a malicious artifact to a GCS bucket, from which users download directly.	Provenance of the artifact in the GCS bucket would have shown that the artifact was not built in the expected manner from the expected source repo.
G	Compromise package repo	Attacks on Package Mirrors: Researcher ran mirrors for several popular package repositories, which could have been used to serve malicious packages.	Similar to above (F), provenance of the malicious artifacts would have shown that they were not built as expected or from the expected source repo.
H	Use compromised package	Browserify typosquatting: Attacker uploaded a malicious package with a similar name as the original.	SLSA does not directly address this threat, but provenance linking back to source control can enable and enhance other solutions.

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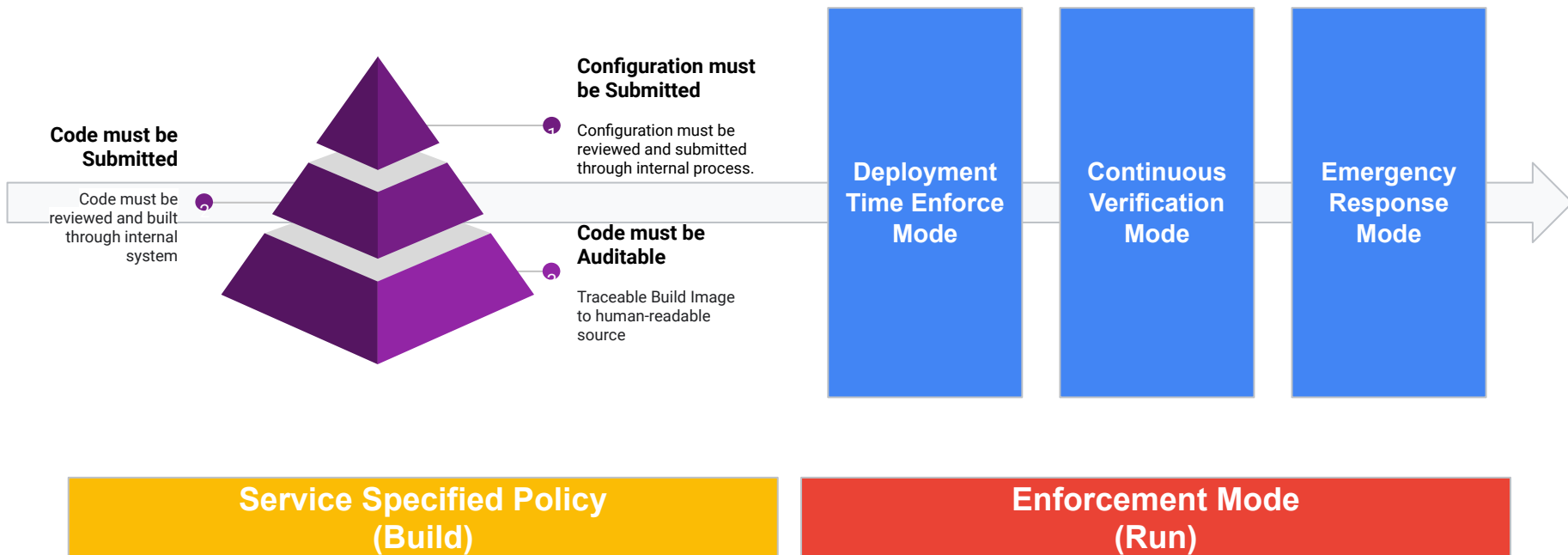
Industry & Government Priority

The recent **U.S. executive order**, **European Union Agency for Cybersecurity**, and others are requiring governmental contractors and essential utilities to follow a high standard of **SDLC security** has accelerated the urgency and timeline.

We anticipate these standards to become broad market norms.



Google BAB (Binary Authorization For Borg) Process:



SLSA (“salsa”) framework

Supply Chain Levels for Software Artifacts

A security framework to secure three main areas involved in software artifact creation:

Build Integrity

- Modification of code after source control
- Compromised build platforms
- Bypassing CI/CD

Source Integrity

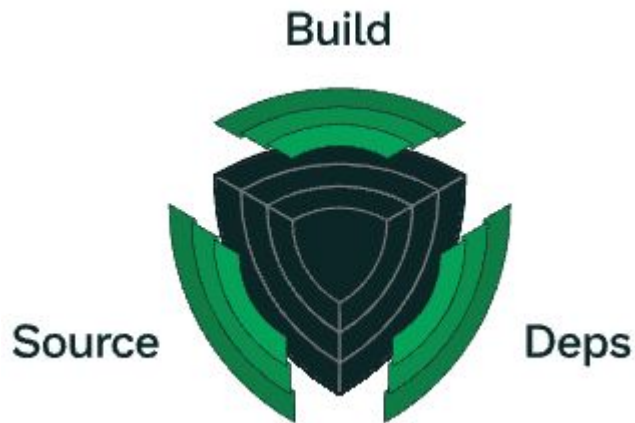
- Available change history
- Code review
- Compromised source control systems

Dependencies

- Applying SLSA checks recursively to dependencies
- Dependency confusion

Steering Committee

- Bruno Domingues - Intel
- David A. Wheeler - Linux Foundation
- Joshua Lock - VMware
- Kim Lewandowski - Chainguard
- Mark Lodato - Google
- Mike Lieberman - Kusari/CNCF
- Trishank Karthik Kuppusamy - Datadog



SLSA Levels

Measure integrity levels for build, source and dependencies

See: slsa.dev



Automation & Provenance

Build must be fully scripted/automated and generate provenance



Version Control & Signed Provenance

Requires using version control and hosted build service that generates authenticated provenance



Non-falsifiable, Ephemeral

Builds are fully trustworthy, with identity attestations of underlying build infrastructure/hardware. Ephemeral builds leave nothing behind.



Hermetic Builds, Review

All build inputs/dependencies are specified upfront with no internet egress during the build. Two-party reviews.

SLSA Levels

Measure integrity levels for build, source and dependencies

See: slsa.dev



~~Automation & Provenance~~

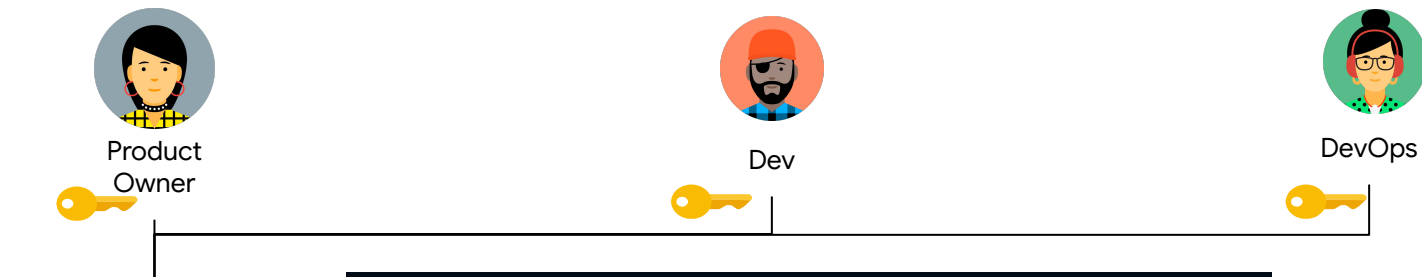
Build must be fully scripted/~~automated~~
and generate provenance

Level 1: Signed Provenance

P.O 負責產生Layout



A framework to secure the integrity of software supply chains



```
{
  "signatures": [
    {
      "keyid": "556caebdc0877eed53d419b60eddb1e57fa773e4e31d70698b588f3e9cc48b35",
      "sig": "b2236e31098e05bdf92a73e0640ceb1218411c4890158aed6f9f8047196a35f72936d000328bfd47db2a"
    }
  ],
  "signed": {
    "_type": "layout",
    "expires": "2022-11-10T11:25:47Z",
    "inspect": [ ... ],
    "keys": {
      "2f89b9272acfc8f4a0a0f094d789fdb0ba798b0fe41f2f5f417c12f0085ff498": { ... },
      "776a00e29f3559e0141b3b096f696abc6cfb0c657ab40f441132b345b08453f5": { ... }
    }
  },
  "readme": "",
  "steps": [ ... ]
}
```

Level 1: Signed Provenance

Layout定義工作流程與對應簽章



A framework to secure the integrity of software supply chains



Product Owner



Dev



DevOps

Product Layout

Source Clone

Code + Version Change

Package

```
{
  "_type": "step",
  "expected_command": [
    "tar",
    "--exclude",
    ".git",
    "-zcvf",
    "demo-project.tar.gz",
    "demo-project"
  ],
```

```
"expected_materials": [
  [
    "MATCH",
    "demo-project/*",
    "WITH",
    "PRODUCTS",
    "FROM",
    "update-version"
  ],
```

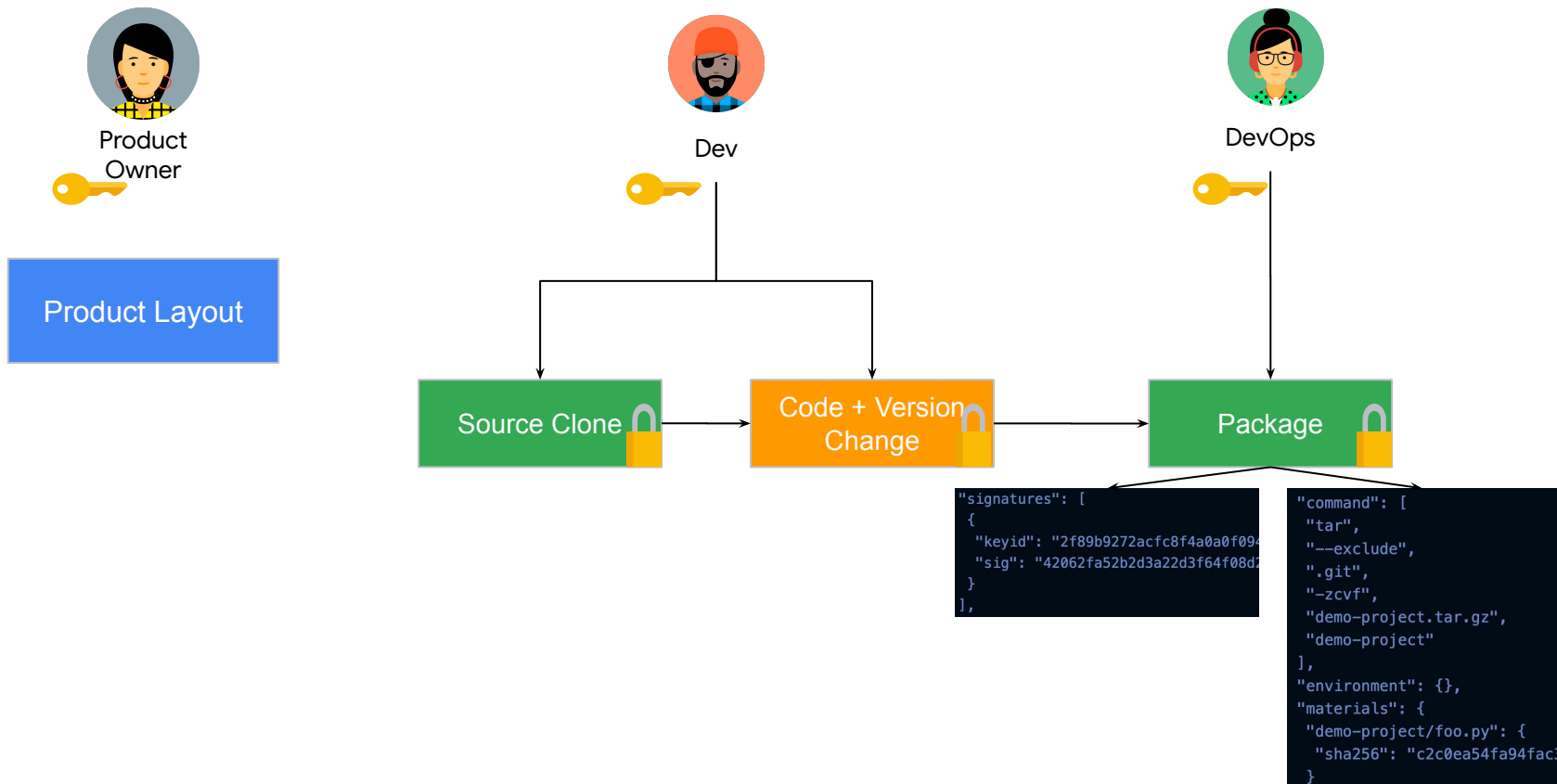
```
"expected_products": [
  [
    "CREATE",
    "demo-project.tar.gz"
  ],
  [ ... ]
],
"name": "package",
"pubkeys": [ ... ],
"threshold": 1
```

Level 1: Signed Provenance

執行完成後，由執行者簽章



A framework to secure the integrity of software supply chains



Level 1: Signed Provenance

P.O 可依照簽章進行檢查+部署



A framework to secure the integrity of software supply chains



Product Owner




Dev



DevOps

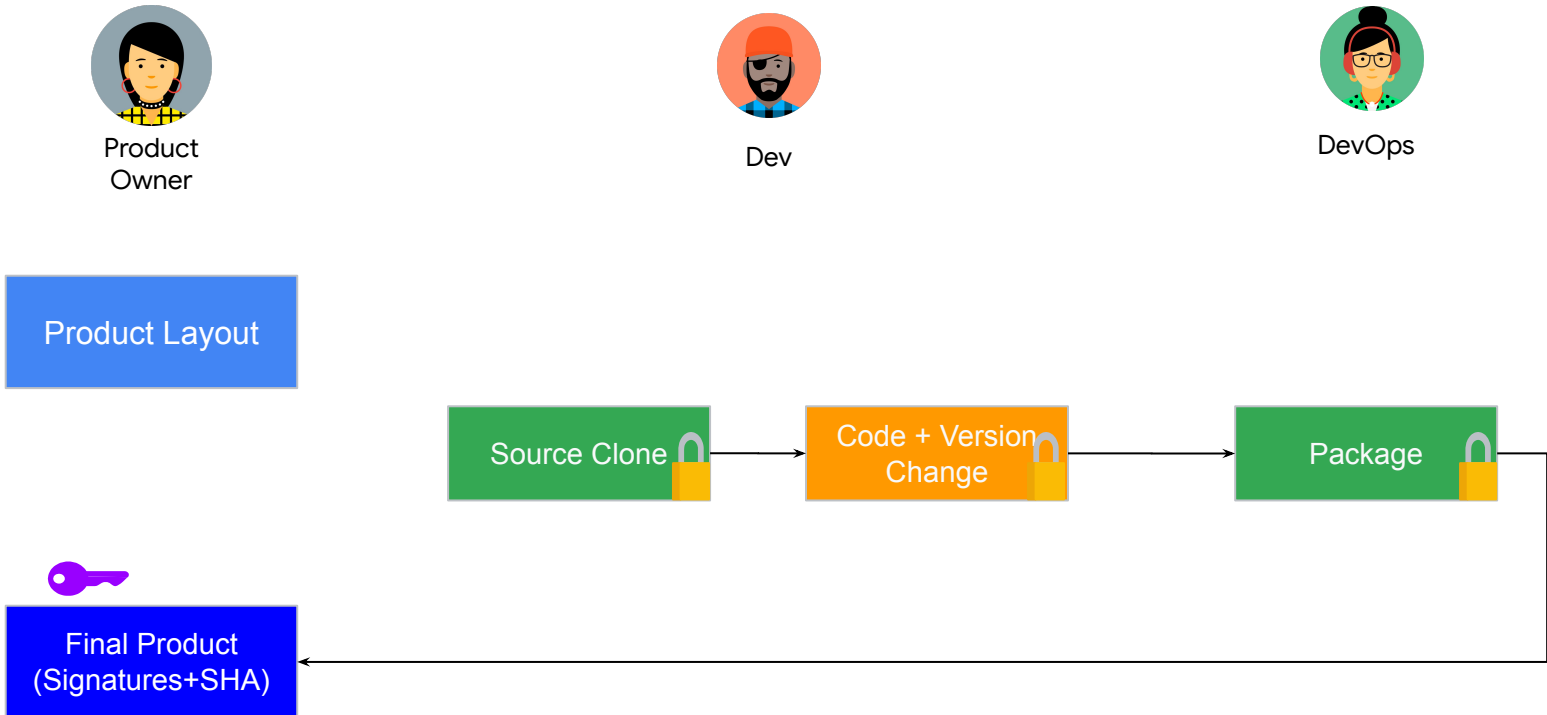
Product Layout

Source Clone 

Code + Version Change 

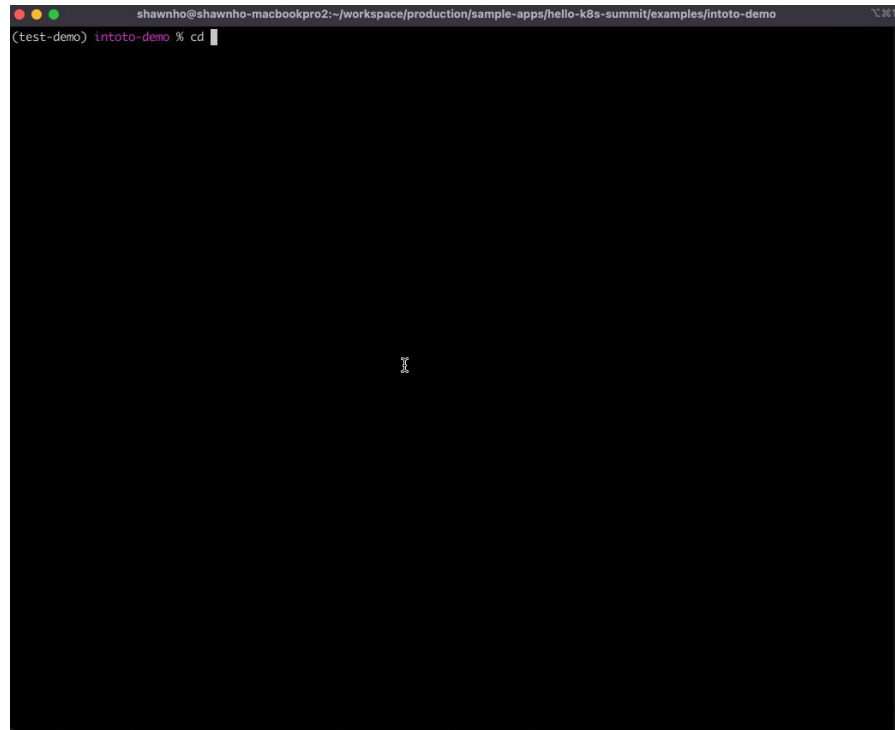
Package 


Final Product (Signatures+SHA)



Demo

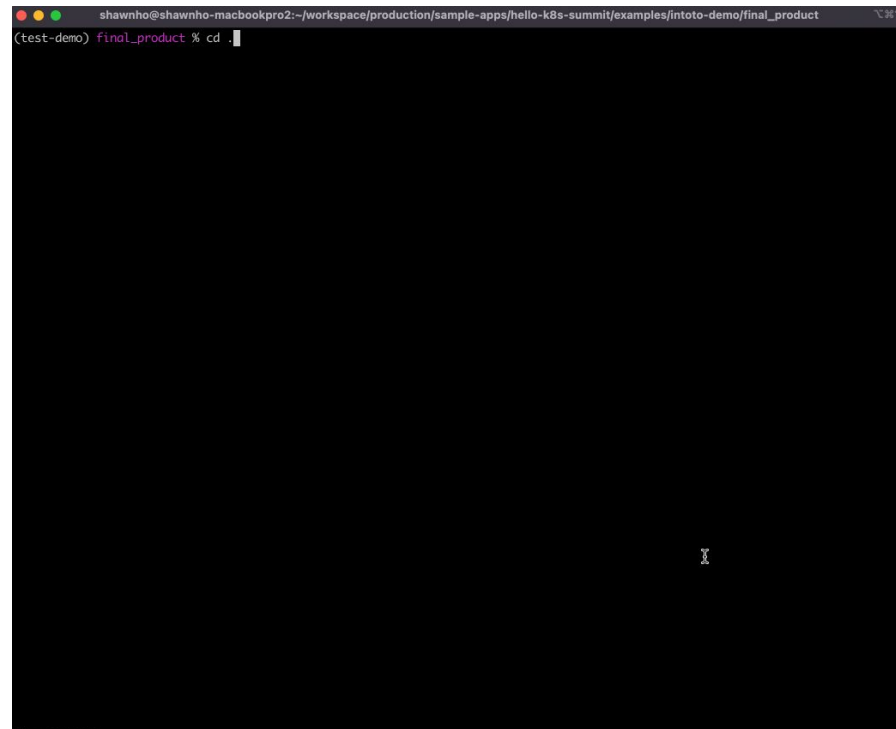
In-toto-verify: Good



```
shawnho@shawnho-macbookpro2:~/workspace/production/sample-apps/hello-k8s-summit/examples/intoto-demo
(test-demo) intoto-demo % cd |
```

A terminal window with a black background and white text. The title bar shows the user 'shawnho' on a 'shawnho-macbookpro2' machine at the directory '~/workspace/production/sample-apps/hello-k8s-summit/examples/intoto-demo'. The prompt is '(test-demo) intoto-demo %'. The user has entered 'cd |' and the cursor is at the end of the line.

In-toto-verify: Tampered



```
shawnho@shawnho-macbookpro2:~/workspace/production/sample-apps/hello-k8s-summit/examples/intoto-demo/final_product
(test-demo) final_product % cd .|
```

A terminal window with a black background and white text. The title bar shows the user 'shawnho' on a 'shawnho-macbookpro2' machine at the directory '~/workspace/production/sample-apps/hello-k8s-summit/examples/intoto-demo/final_product'. The prompt is '(test-demo) final_product %'. The user has entered 'cd .|' and the cursor is at the end of the line.

Agenda

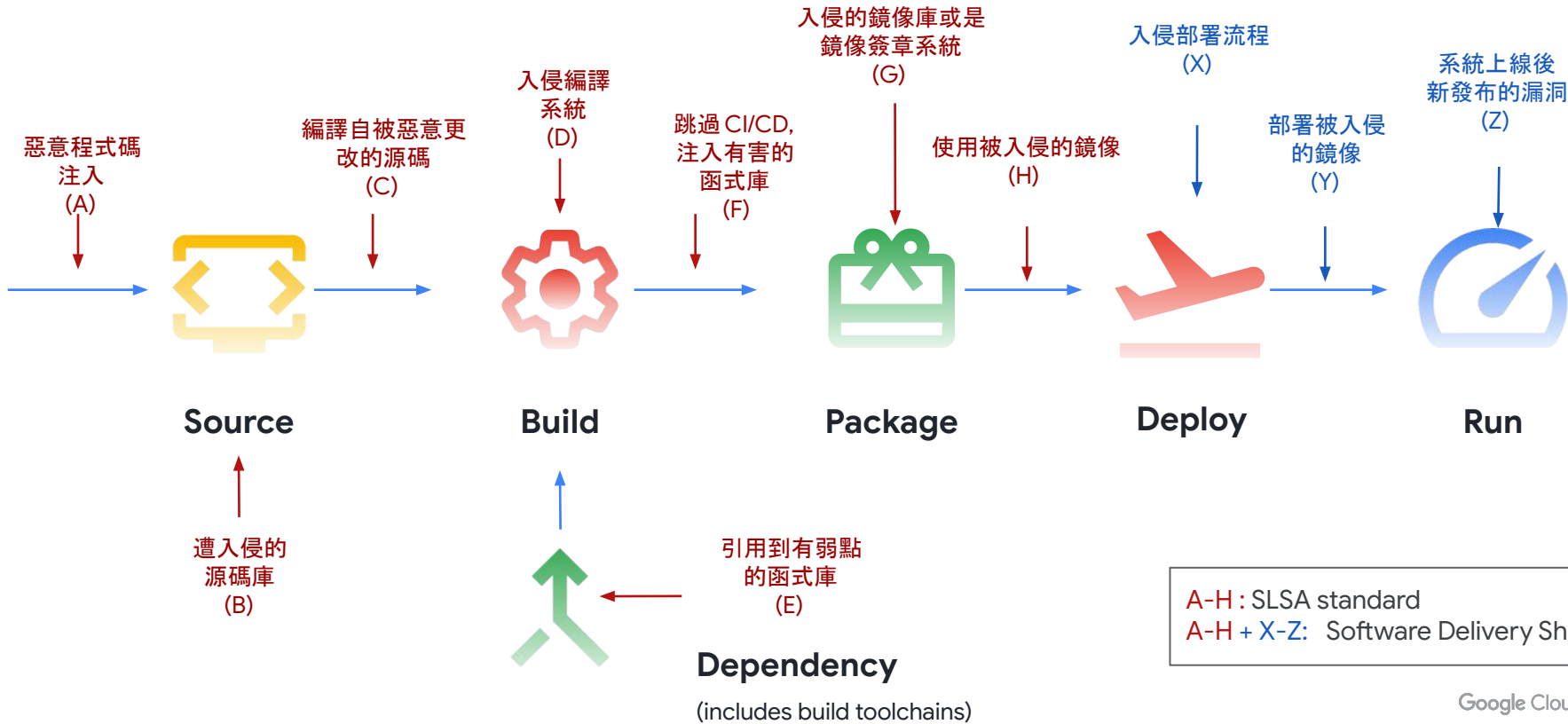
01 Security Challenges from OSS: 開源軟體對資安的挑戰

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攻擊介面 (Attack Vectors) Build + Deploy+Run



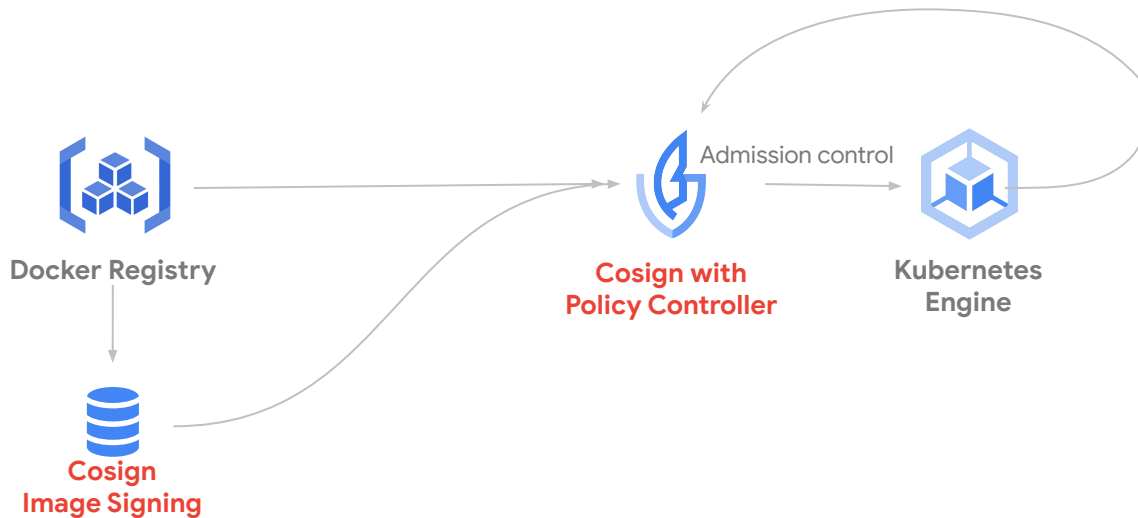
In-Toto概念在K8S的實現: 加上K8S平台上的部署政策

In-Toto + Cosign + Policy Controller

- 安裝Cosign [Policy Controller](#)
- 設計ClusterImagePolicy with [cue](#) or [rego](#)

```

apiVersion: policy.sigstore.dev/v1beta1
kind: ClusterImagePolicy
metadata:
  name: cloudbuild-attestor
spec:
  images:
  - glob: "*"
  authorities:
  - name: custom-key
    key:
      secretRef:
        name: mysecret
  attestations:
  - name: must-have-cosign-sigstore-sign
    predicateType: custom
    policy:
      data: |
        import "time"
        predicateType: "cosign.sigstore.dev/attestation/v1"
        type: cue
  
```



Demo: From Signing to Deploying

```
shawnho@shawnho-macbookpro2:~/workspace/production/sample-apps/hello-k8s-summit/examples/2_demo-cosign
2_demo-cosign % kubectl get pods
```

準備:

- 展示Policy-Controller
- 標註對象名稱空間policy enabled=true
- 展示對應的ClusterImagePolicy

展示:

- 簽署編譯成功的映像檔
- 部署已帶有簽章的鏡像檔
- 部署未帶有簽章的映像檔

SLSA Security Level 3

Measure integrity levels for build, source and dependencies

See: slsa.dev



Automation & Provenance

Build must be fully scripted/automated and generate provenance



Version Control & Signed Provenance

Requires using version control and hosted build service that generates authenticated provenance

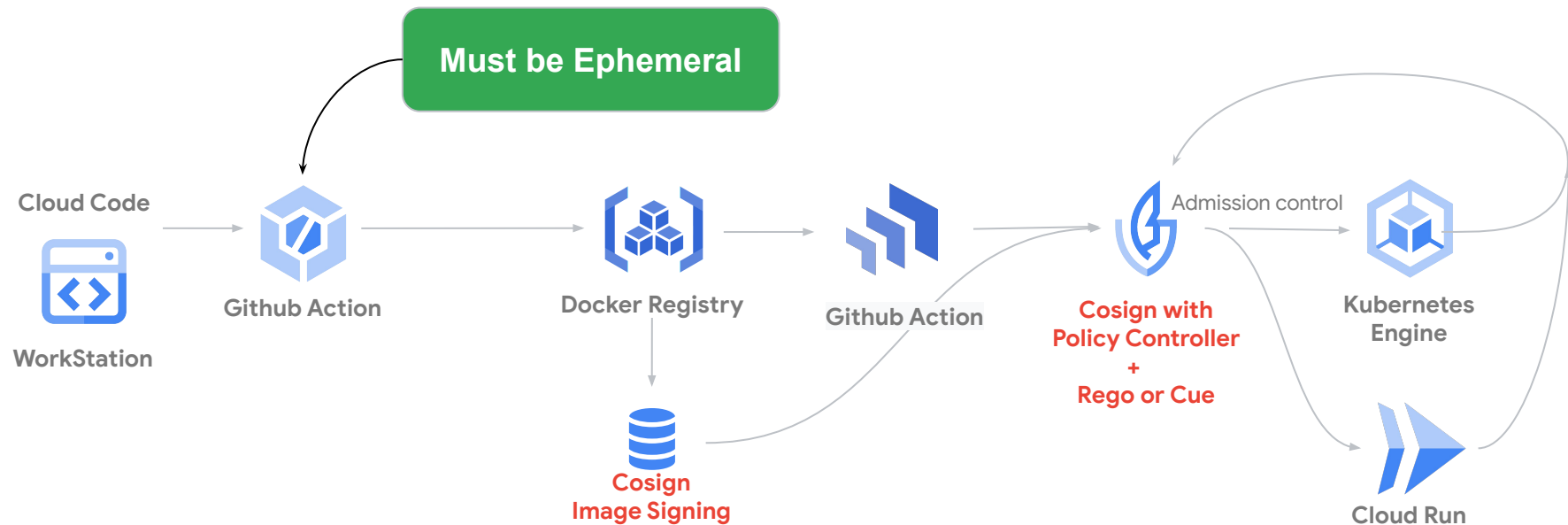


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Builds are fully trustworthy, with identity attestations of underlying build infrastructure/hardware. Ephemeral builds leave nothing behind.

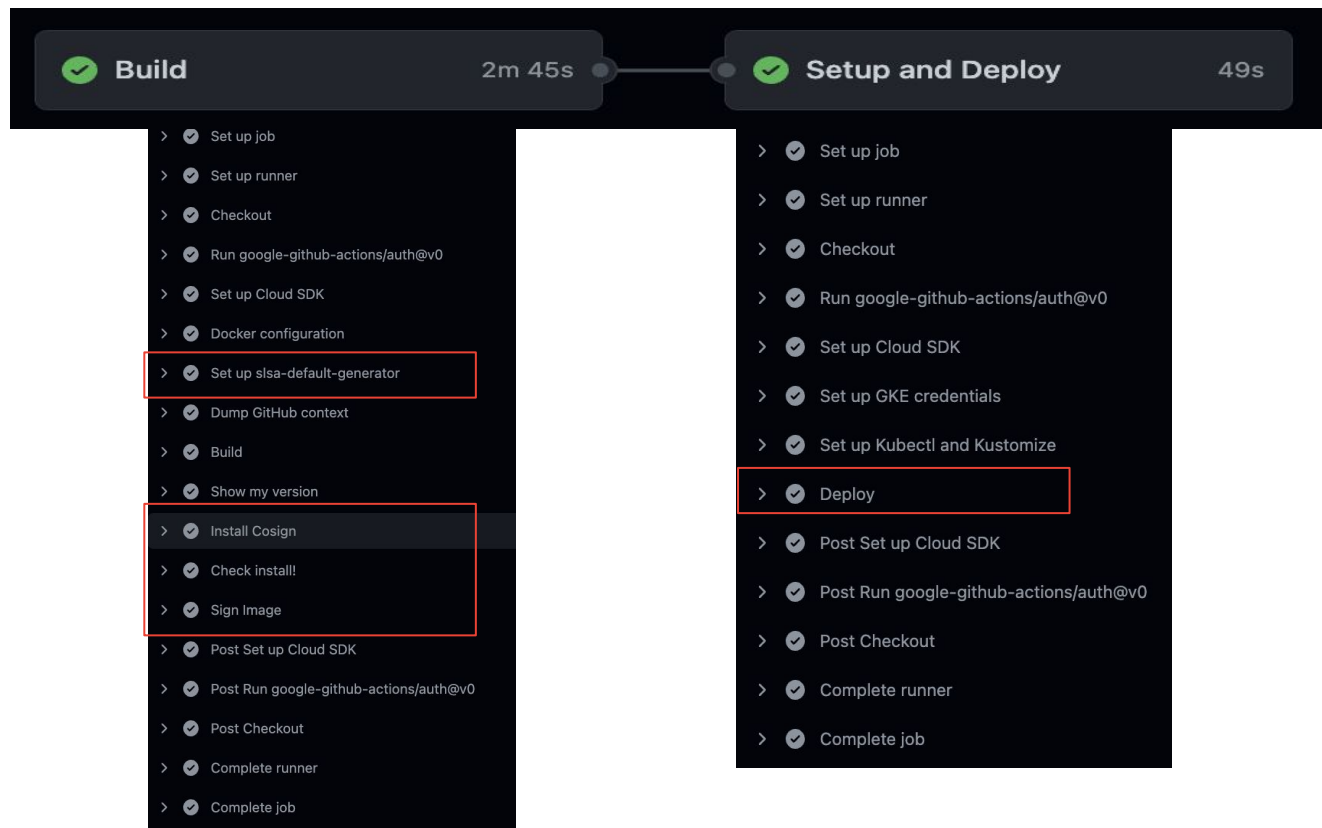
SLSA Security Level 3概念在K8S的實現:

Github Action + Cosign + Policy Controller



Demo: Self-Attested for SLSA Security L3

Github Action + Cosign + Policy Controller



CloudBuild: Managed Service for Provenance Provider/Signing

SLSA Security L3 Build Support

Proprietary + Confidential

```
{
  "_type": "https://in-toto.io/Statement/v0.1",
  "predicate": {
    "builder": {
      "id": "https://cloudbuild.googleapis.com/GoogleHostedWorker@v0.3
    },
    "materials": [
      {
        "digest": {--
      },
      "uri": "gs://shawn-demo-2022_cloudbuild/source/shawn-demo-2022
    ],
    "metadata": {
      "buildFinishedOn": "2022-10-12T11:25:20.821067Z",
      "buildInvocationId": "3b0e309f-96e6-4f16-9242-b97643f25a10",
      "buildStartedOn": "2022-10-12T11:24:15.178302106Z"
    },
  },
}
```

```
"recipe": {
  "arguments": [
    "@type": "type.googleapis.com/google.devtools.cloudbuild.v1.Build",
    "id": "3b0e309f-96e6-4f16-9242-b97643f25a10",
    "name": "projects/715534540884/locations/global/builds/3b0e309f-96e6-4f16-9242-b97643f25a10",
    "options": {--
  },
  "sourceProvenance": {
    "fileHashes": {
      "gs://shawn-demo-2022_cloudbuild/source/shawn-demo-2022-d2397195-2c51": {
        "fileHash": [
          {
            "type": "MD5",
            "value": "uBizVSUySyrA2uaPbDLz1w=="
          }
        ]
      }
    },
    "resolvedStorageSource": {--
  },
}
```

```
"steps": [
  {
    "args": [--
  ],
  "name": "gcr.io/cloud-builders/docker",
  "pullTiming": {--
  },
  "status": "SUCCESS",
  "timing": {--
  }
},
{
  "definedInMaterial": "-1",
  "type": "https://cloudbuild.googleapis.com/CloudBuildSteps@v0.1"
},
],
"predicateType": "https://slsa.dev/provenance/v0.1",
}
```

Material: 源碼壓縮檔位置

Metadata: 創建時間

源碼的MD5 Hash

執行步驟

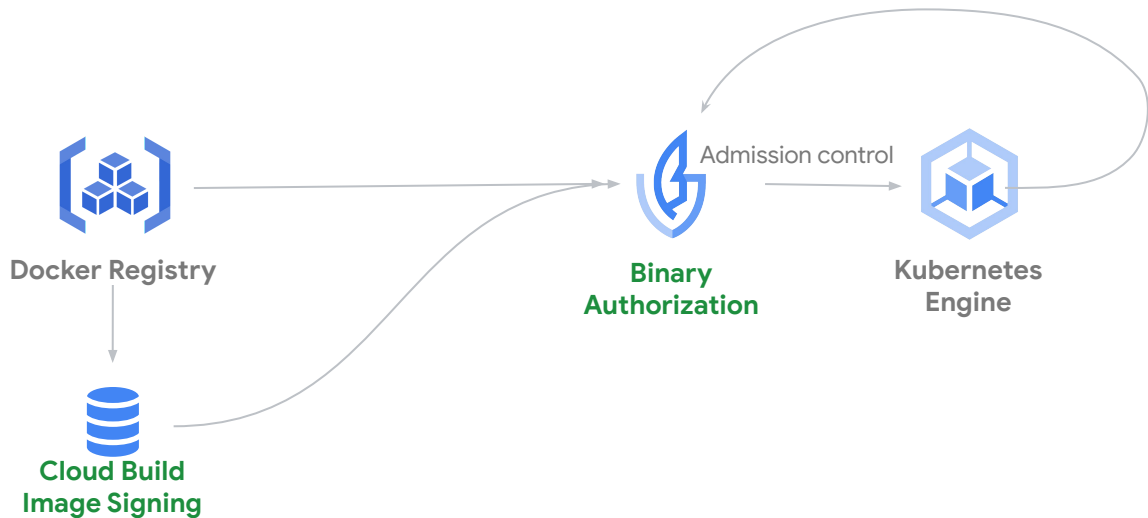
In-Toto概念在GCP的實現: Managed Attester & Verification on GCP

In-Toto + CloudBuild + Binary Authorization

- 安裝 Binary Authorization
- 設計 Policy:
 - defaultAdmissionRule:
 - clusterAdmissionRule:

```
cat << EOF > policy.yaml
defaultAdmissionRule:
  evaluationMode: REQUIRE_ATTESTATION
  enforcementMode: DRYRUN_AUDIT_LOG_ONLY
  requireAttestationsBy:
    - projects/${PROJECT_ID}/attestors/built-by-cloud-build
globalPolicyEvaluationMode: ENABLE
name: projects/${PROJECT_ID}/policy
clusterAdmissionRules:
  ${ZONE}.${CLUSTER}:
    evaluationMode: REQUIRE_ATTESTATION
    enforcementMode: ENFORCED_BLOCK_AND_AUDIT_LOG
    requireAttestationsBy:
      - projects/${PROJECT_ID}/attestors/built-by-cloud-build
EOF

gcloud container binauthz policy import ./policy.yaml
```



Demo

```
user@workstation-l8bpmfkt:~/hello-k8s-summit/examples/3_demo-binaryautz$ cat image.json
{"builds": [{"imageName": "asia-east1-docker.pkg.dev/shawn-demo-2022/image-repos/hello-k8s-summit", "tag": "asia-east1-docker.pkg.dev/shawn-demo-2022/image-repos/hello-k8s-summit:latest@sha256:10384e7e76a3d9e60e12d2e5bbb60ba992ac880f32d8d8bc8d46bfffceed4ae2e"}]}user@workstation-l8bpmfkt:~/hello-k8s-summit/examples/3_demo-binaryautz$
```

準備:

- 設定Binary Authorization Policy
- 使用Skaffold 快速Build出一個帶簽章的版本

展示:

- 使用[slsa-verifier](#)驗證Skaffold Build出的鏡像檔案
- 部署已帶有簽章的鏡像檔
- 部署未帶有簽章的映像檔

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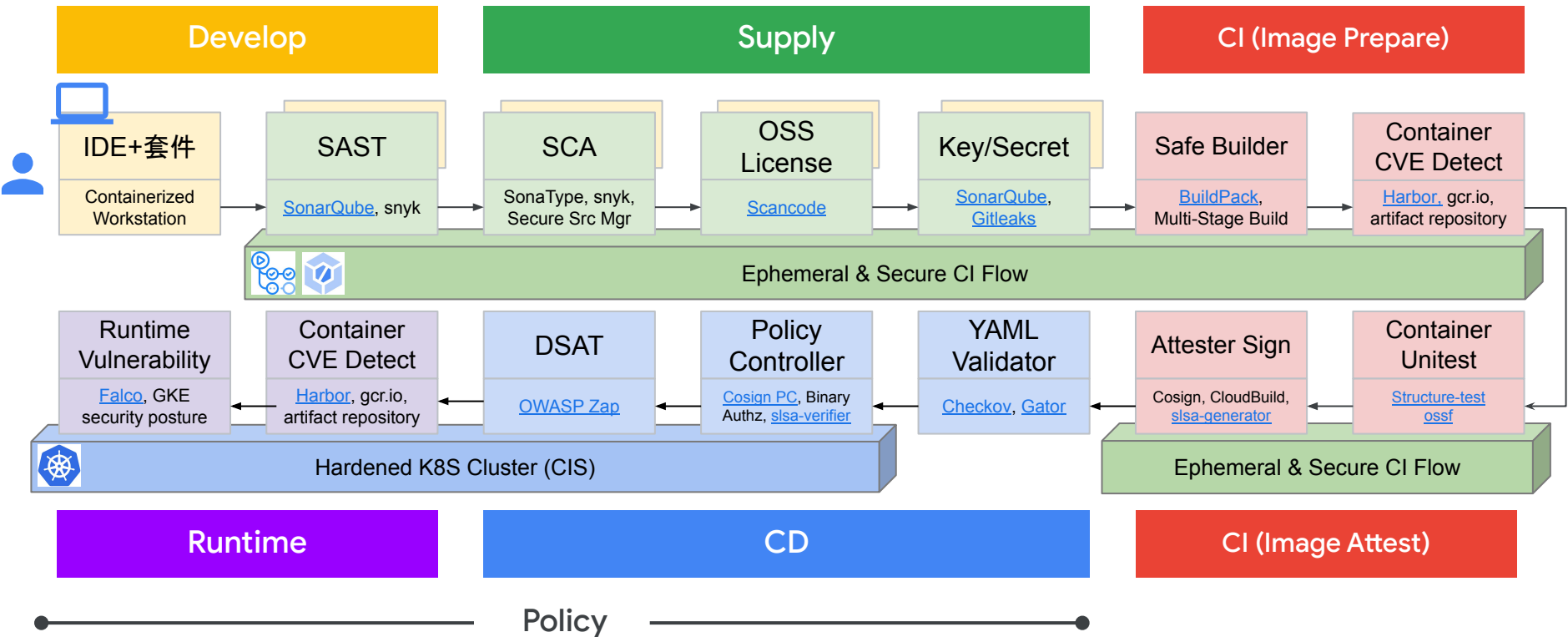
- 03 Software Delivery Shield: 平台部署+持續防護

- 04** Software Delivery Shield在GCP上的實現



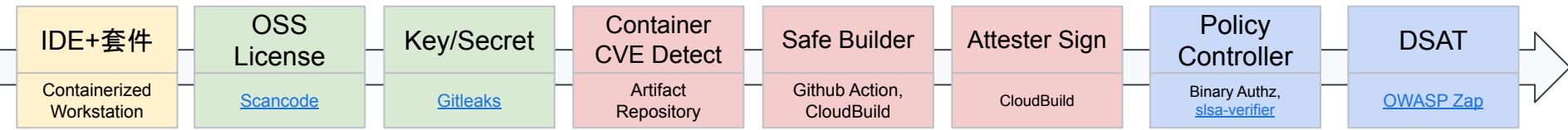
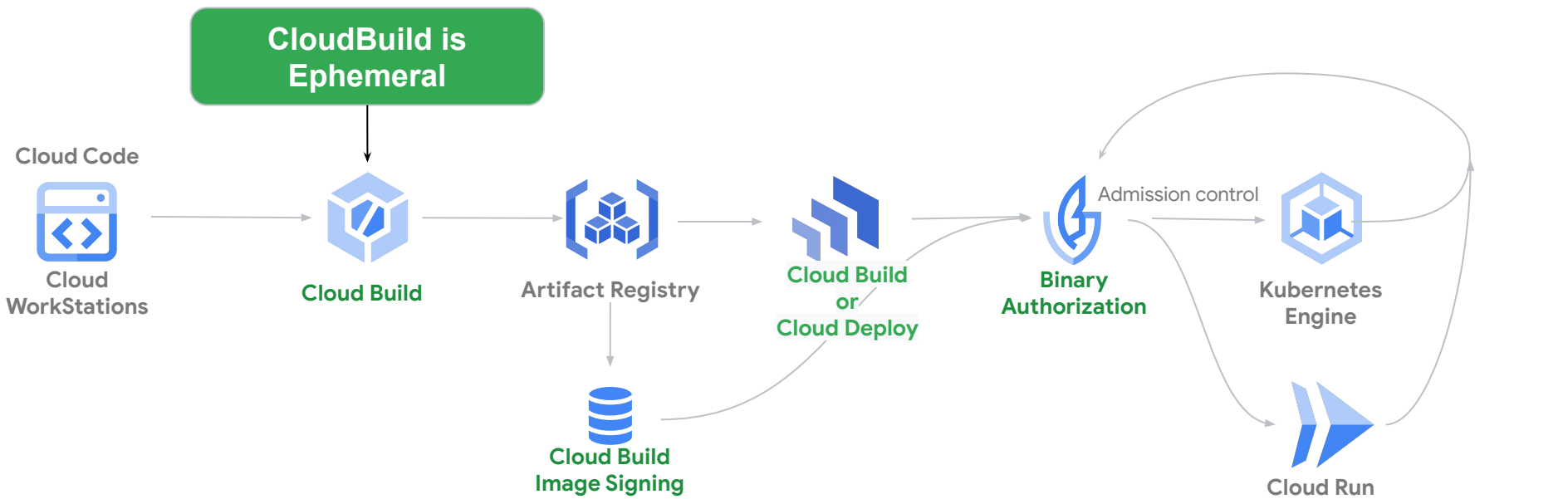
Software Delivery Shield

End-to-End Software Supply Chain Security Solution



SLSA-Level 3概念在GCP的實現:

Cloud Build + Artifact Registry + Binary Authorization



Demo: Secure Delivery Shield 在GCP的實現

```
cid > ! cloudbuild.yaml > [ ] steps > entrypoint
1 steps:
2 - id: 'check key/secret'
3   name: gcr.io/google.com/cloudsdktool/cloud-sdk
4   entrypoint: name (string)
5   args:
6     - '-c'
7     - |
8       apt-get install -y jq
9       wget -q -O- https://github.com/google/go-containerregistry/releases/download/v0.15.0/linux_x64.tar.gz
10      tar -xzf linux_x64.tar.gz
11      ./go-containerregistry-linux-x64
12      - id: 'l
13     name:
14     entrypoint:
15     args:
16     - '-c'
17     - |
18       apt-get install -y jq
19       scancode -clp --verbose . --processes `expr $(nproc --all) - 1` --json /workspace/licenses.json
20       cat /workspace/licenses.json | jq '.[][].licenses | select (length>0)'
21 - id: 'buildImage'
22   name: 'gcr.io/k8s-skaffold/skaffold:v1.35.1'
23   entrypoint: 'bash'
24   args:
25     - '-c'
26     - |
27       skaffold build -p cloudbuild --file-output /workspace/image.json
28 - id: 'validate signature'
29   name: 'gcr.io/shawn-demo-2022/cosign:latest'
30
```

Required. The name of the container image that will run this particular build step. If the image is available in the host's Docker daemon's cache, it will be run directly. If not, the host will attempt to pull the image first, using the builder service account's credentials if necessary. The Docker daemon's cache will already have the latest versions of all of the officially supported build steps (<https://github.com/GoogleCloudPlatform/cloud-builders>). The Docker daemon will also have cached many of the layers for some popular images, like "ubuntu", "debian", but they will be refreshed at the time you attempt to use them. If you built an image in a previous build step, it will be stored in the host's Docker daemon's cache and is available to use as the name for a later build step.

```
user@workstation-l8bpmfkt:~/hello-k8s-summit$
```

1. Key/Secret Check
2. OSS License Validation
3. Build Image with CloudBuild
4. Verify Signature with slsa-verifier
5. Verify Image CVEs with Container Analysis API
6. Provide SBOM along with image
7. Deploy Image with Skaffold+Kustomize
8. DSAT Test with ZAP

Road to SLSA Security Level 4

Measure integrity levels for build, source and dependencies

See: slsa.dev



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Learn more



嘗試 Software Delivery Shield

Check out our Quickstart tutorials to get started with Software Delivery Shield:
cloud.google.com/software-supply-chain-security/docs/sds/overview
bit.ly/SoftwareDeliveryShield

了解更多開發供應鏈上資安強化

To learn more about software supply chain security, visit:
cloud.google.com/software-supply-chain-security

關注以下的社群

- [SBOM](#) - The Linux Foundation
- [Sigstore](#) - The Linux Foundation
- [ScoreCard](#) - Open Security Source Foundation (OSSF)
- [SLSA](#) - An Industry Collaboration
- [Deps.dev](#) - Open Source Insight Team, powered by Google

Thank you

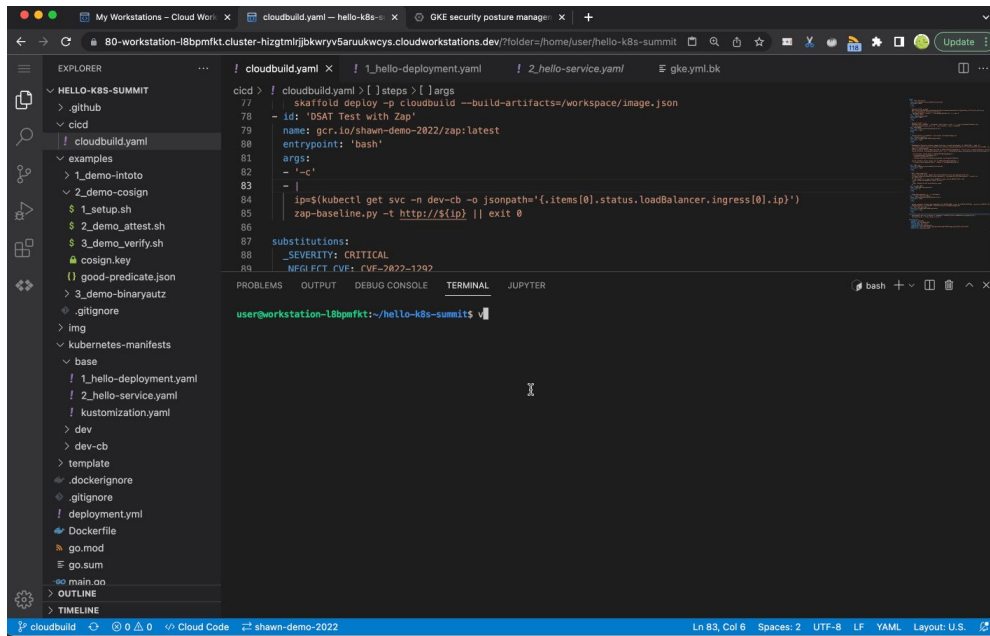
cloud.google.com/software-supply-chain-security

Fully managed development environments



Cloud Workstations

- On-demand environments accessible anywhere
- Security policies
- Managed base images
- VPC and VPC-Service controls

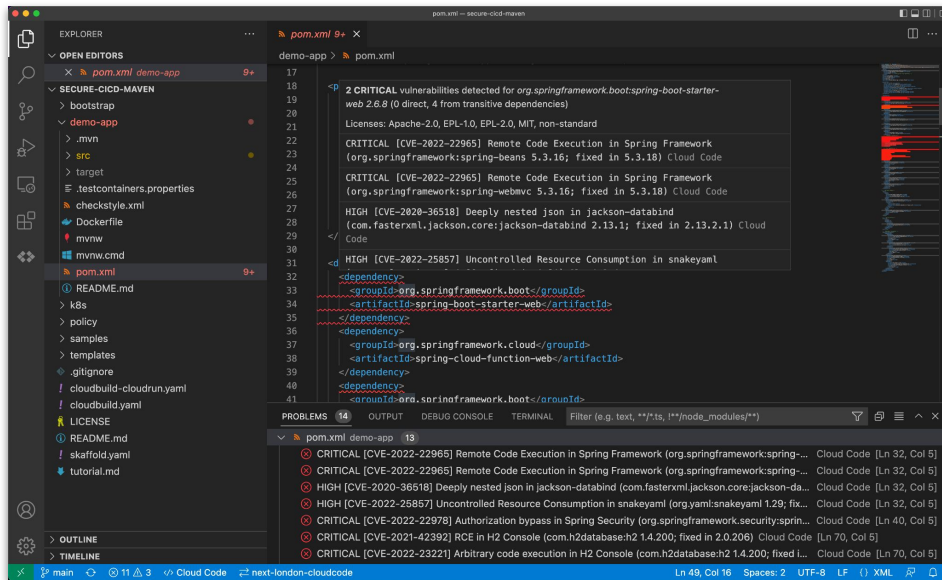


Preview

Security assistance in the IDE

Cloud Code source protect

- Vulnerability detection as you code
- Support for scanning transitive dependencies
- Dependency license reporting



Preview

Improving security of artifacts and dependencies



Artifact Registry & Container Analysis



Assured Open Source Software

- Artifact Registry - Maven virtual and remote repos
- Container Analysis - On-push Maven and Go container scanning and standalone Maven package scanning
- Container Analysis - On-push SBOM dependency list generation for containers
- Assured Open Source Software - 250+ Java and Python packages

Scan results

PREVIEW Maven and Go scanning are now included. [LEARN MORE](#)

Based on factors such as exploitability, scope, impact, and maturity of the vulnerability.

Scans	Total	Fixes	Critical	High	Medium
3	29	12	4	5	7

Filter Filter vulnerabilities

Name	Effective severity	CVSS V2	Fix available	Package	Package type	
CVE-2022-22978	Critical	7.5	Yes	org.springframework.security:spring-security-core	Maven	VIEW FIX
CVE-2022-23221	Critical	10	Yes	com.h2database:h2	Maven	VIEW FIX
CVE-2021-42392	Critical	10	Yes	com.h2database:h2	Maven	VIEW FIX
CVE-2022-22965	Critical	7.5	Yes	org.springframework:spring-beans	Maven	VIEW FIX
CVE-2022-22970	High	3.5	Yes	org.springframework:spring-core	Maven	VIEW FIX
CVE-2022-31197	High	0	Yes	org.postgresql:postgresql	Maven	VIEW FIX
CVE-2021-23463	High	6.4	Yes	com.h2database:h2	Maven	VIEW FIX
CVE-2022-22968	High	5	Yes	org.springframework:spring-core	Maven	VIEW FIX
CVE-2020-36518	High	5	Yes	com.fasterxml.jackson.core:jackson-databind	Maven	VIEW FIX
CVE-2020-16156	Medium	6.8	-	perl	OS	VIEW
CVE-2022-22971	Medium	4	Yes	org.springframework:spring-core	Maven	VIEW FIX
CVE-2022-2509	Medium	0	Yes	gnuts28	OS	VIEW FIX
CVE-2021-31879	Medium	5.8	-	wget	OS	VIEW

Preview

Software Delivery Shield

Enhance the security of your CI pipelines



- SLSA Level 3 build support (slsa.dev)
- Build provenance for non-container Java (Maven) and Python packages
- Security insights panel

Security insights for demo-app ✕

Software Delivery Shield is a new service to safeguard artifact integrity across your entire software delivery lifecycle. [Learn more](#) about how it can prevent tampering, improve integrity, and secure packages and infrastructure.

3 Achieved
SLSA Build Level 3 [What's this?](#)

Supply Chain
 Supply chain information appears for artifacts that you store in Artifact Registry and Container Registry. If parts of your supply chain are outside of Google Cloud, some information might be unavailable.

Vulnerabilities

🔴 Critical	🟡 High	🟠 Medium	🟢 Low
0	0	0	0

Artifacts scanned [demo-app](#)

Build

Details

Logs	4b25f15e
Builder	Cloud Build
Completed	4 days ago

Provenance [🔗](#)

```

    "_type": "https://in-toto.io/Statement/v0.1",
  
```

review

Security insights at the runtime

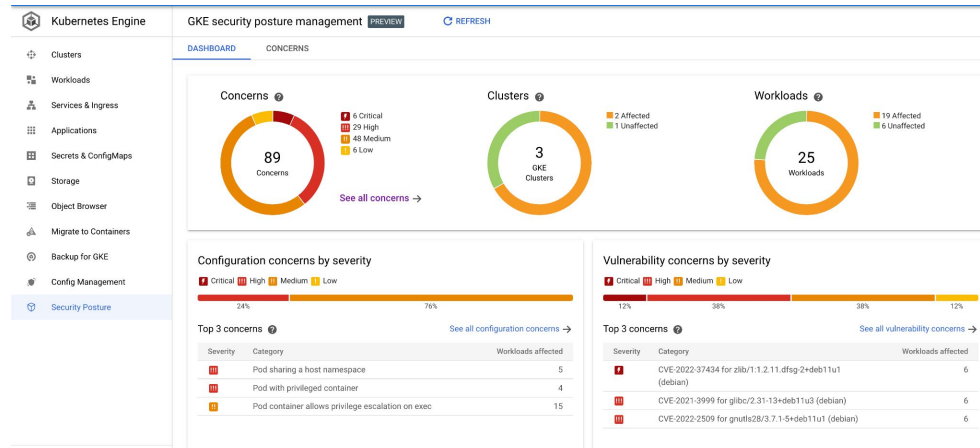


GKE security posture



Cloud Run security insights

- GKE continuous runtime vulnerability and workload configuration scanning
- Cloud Run insights into security target levels, service vulnerabilities, and build provenance



Preview

Software Delivery Shield

Cosign to prevent unauthorized images

In Kubernetes:

- Install by [helm chart](#)
- Use ClusterImagePolicy to replace policy parameter in cosign
- Need to [tag namespace](#) with [policy.sigstore.dev/include=true](#) to enable admission webhook
- Attestation [can be revoked](#) which prevents the image to run on the cluster again.

