

# Connected Research - KDD Google Cloud Software Delivery Shield

## DACI Decision

Status	REJECTED
Impact	This decision affects the development process and to a great degree the tools, that should be used by the LabBooster team.
Driver	KRONTIRAS-ext, Pavlos
Approver	KRONTIRAS-ext, Pavlos
Contributors	
Informed	Roscetti, Nicolas MENGHETTI, Matteo SIMAO-ext, Vitor
Due date	
Outcome	Will not proceed with general implementation at this time. Decision made on 13 Dec 2024

## Tips and info

Recommendations

Contributors

Contributors: I am seeking the right people to get involved in the decision. Add your comments to this page, let's get the conversation started.

Please add:

- **The people** directly impacted by this so we can include them.
- **Any references** to previous work and investigations that we can leverage.
- Any **constraints and challenges** we need to consider to make this decision and following action plan.

Impact rating

Here's an example you can use as a guide.

Decision characteristics	
<ul style="list-style-type: none"> <li>• The decision will have a material impact on the customer experience OR</li> <li>• will significantly impact the roadmap OR</li> <li>• will adversely disrupt an internal business process.</li> </ul>	HIGH
<ul style="list-style-type: none"> <li>• The decision will involve a less than material change to customer experience OR</li> <li>• will impact the roadmap OR</li> <li>• will impact an existing internal business process</li> </ul>	MEDIUM
<ul style="list-style-type: none"> <li>• All other decisions</li> </ul>	LOW

## Background

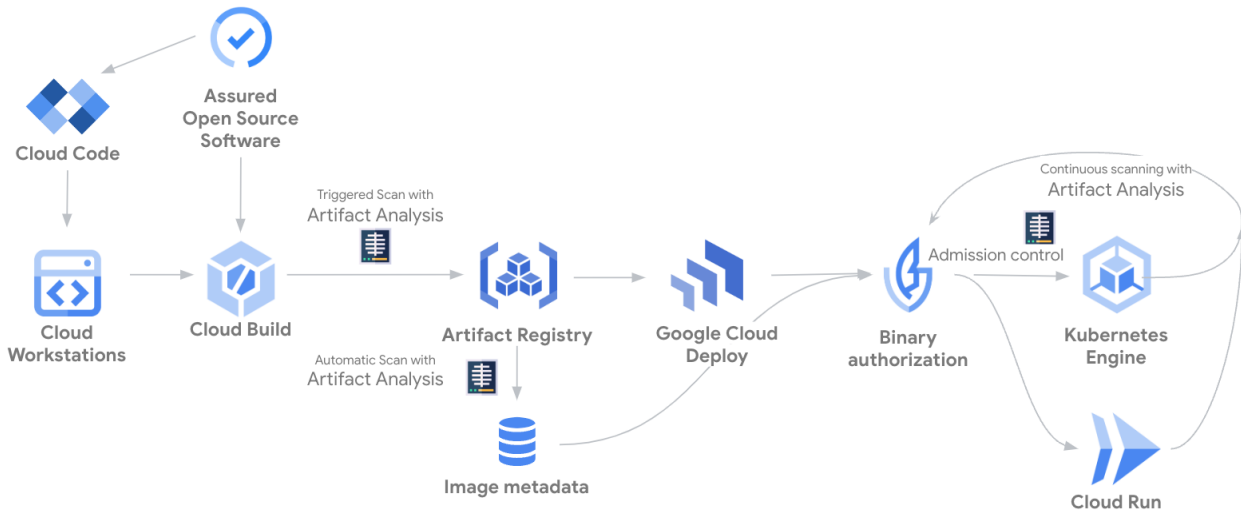
The Google Cloud Software Delivery Shield is a set of tools and services that offer a secure cloud-hosted development environment with end-to-end security built-in, that prevents any unauthorized code or data exfiltration from the organization's GCP estate.

## Current state

All development is done locally on individual computers with full access to upload/download files and data.

## Data for decision support

High level Architecture of GCP Software Delivery Shield



## Options considered

	Option 1: Do nothing	Option 2: Use GCP Software Delivery Shield
<b>Description</b>	No change	Implementing this framework will require the activation and use of several new GCP tools & services and will change the current development and software build and delivery processes.
<b>Rollout plan</b>	No change	<ul style="list-style-type: none"> <li>Request new development GCP project in Syensqo landing zone with all required APIs and network configurations enabled</li> <li>Create Artifact repositories for source code management and Assured Open Source Software</li> <li>Create development VMs with necessary software tools installed</li> <li>Create build pipelines</li> <li>Test and validate framework</li> <li>Create user documentation</li> <li>Scale up the rollout to developers</li> </ul>

<b>Pros and cons</b>	<ul style="list-style-type: none"> <li>⊕ No change to current development process</li> <li>⊕ No additional cost or effort required</li> <li>⊖ Higher on-boarding time for new team members</li> <li>⊖ Potential for lost time and inefficiencies due to development environment</li> <li>⊖ Continued security risks &amp; inefficiencies</li> </ul>	<ul style="list-style-type: none"> <li>⊕ Secure development with validated secure 3rd party libraries and automatic scanning of containers for security vulnerabilities</li> <li>⊕ Digitally signed containers for verifiable build provenance</li> <li>⊕ Prevents data loss/exfiltration by enforcing a security perimeter with resources contained within GCP</li> <li>⊕ Standardizes development environment and tools, minimizing errors and lost time troubleshooting problems due to misconfiguration or configuration differences</li> <li>⊕ Accelerates on-boarding time for new team members</li> <li>⊕ Potentially reduces hardware costs with reduced performance requirements for developers' physical hardware</li> <li>⊖ Requires fast and reliable Internet connectivity</li> <li>⊖ Increases GCP consumption costs with use of new tools &amp; services</li> <li>⊖ Would require additional GCP skills to support framework</li> <li>⊖ Libraries currently in use in DataLab code may not be security validated</li> <li>⊖ Introduces a completely new development process</li> <li>⊖ May require significant amount of time to deploy, validate, and rollout</li> <li>⊖ May not be easily transferable to other cloud platforms, e.g. Azure</li> </ul>
<b>Risks</b>	<ul style="list-style-type: none"> <li>• Continued risk of data exfiltration</li> <li>• Continued risk of including security vulnerabilities in delivered product</li> </ul>	<ul style="list-style-type: none"> <li>• Resistance from developers that want to maintain their own independent development environment</li> <li>• Additional costs are not acceptable</li> <li>• Skills are not available in team to support the framework</li> </ul>
<b>Estimated cost and effort</b>		

## FAQ

Q1.

A1.

## References

Relevance	Link
Official documentation of the GCP Software Delivery Shield	<a href="https://cloud.google.com/security/solutions/software-supply-chain-security?hl=en">https://cloud.google.com/security/solutions/software-supply-chain-security?hl=en</a>
Review of test implementation	

## Follow-up action items



Learn more: <https://www.atlassian.com/team-playbook/plays/daci>

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