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CloudNativeCon

Europe 2026

#KubeCon #CloudNativeCon

# The Next Chapter of Developer Experience

## TAG DevEx in Action



# Meet Your TAG Chairs and Leaders



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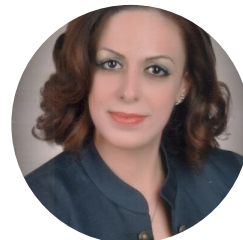
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**Daniel Oh**  
Co-Chair



**Mauricio Salatino**  
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**Mona Borham**  
Co-Chair



**Kevin Dubois**  
Tech Lead



**Julien Semaan**  
Tech Lead



**Graziano Casto**  
Tech Lead



**Joshua Bezaleel Abednego**  
Tech Lead



**Mélony Qin**  
Tech Lead

# Goals and Charter

- Create shared standards, guidance, and resources to improve developer experience.
- Support CNCF projects in understanding developer needs and building consistent, interoperable tools.
- Reduce barriers to entry and foster inclusive, frictionless cloud native development.



# Focus Areas



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Inner & Outer Loop

**Developer Tooling**



Patterns in Production

**Application Runtime**



Golden Paths

**Platform Enablement**

# Current Initiatives



- Showcasing Frictionless Secure Coding Success Stories and Pain Points in CNCF Projects
  - <https://github.com/cncf/toc/issues/1943>
- State of AI-Assisted Development in CNCF Projects
  - <https://github.com/cncf/toc/issues/1966>
- Specification for declaring application integration dependencies
  - <https://github.com/cncf/toc/issues/1797>
- Cloud Native and OCI Compliant Inner-Loop Tooling & Packaging for AI Engineers
  - <https://github.com/cncf/toc/issues/1740>

# Showcasing Frictionless Secure Coding Success Stories and Pain Points in CNCF Projects



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- Poll the CNCF maintainer community on their security practices adoptions and impact on DevEx
- Find volunteers to participate in workshops to share their thoughts on
  - improving security posture while encouraging good DevEx
  - challenges and friction points adopting CNCF security guidelines
- Desired Outcome
  - Surfacing patterns that have improved security practices adoption and improved DevEx
  - Identify mature security tools and practices that can be reused across CNCF projects
  - Provide feedback to TAG SC of friction areas in the security guidelines



# State of AI-Assisted Development in CNCF Projects

## The Goal

*To gather data on how CNCF maintainers are using AI tools (IDEs, CI, Code Review) and identify the specific security and productivity hurdles they face.*

## Target Personas

- **Project Maintainers & Contributors** (*Sandbox to Graduated*).
- **DevEx & Platform Engineers** *optimizing contributor workflows.*
- **Security Leads** *focused on AI-generated code governance.*

## The Deliverables

- **Analysis Report:** *A public report on tool trends and productivity impacts.*
- **Reference Guide:** *A vendor-neutral handbook of best practices for project governance.*

## Timeline

- Survey Launch & Data Collection. 👉
- **Q2 2026:** Analysis & Preliminary Findings.
- **Q3 2026:** Final Reference Guide Publication.



# Specification for App Dependencies

Pain point in many orgs: hard to know what dependencies an app relies on: infra, databases, APIs, messaging, LLMs, etc.

- We need a spec that defines app integration dependencies instead of guessing
- Understand what dependencies are needed to run an app:
  - Locally for developers
  - On a shared test env in e.g. Kubernetes
  - For deployment to prod
- Ecosystem impact:
  - Security Assertions: Enforce least-privilege policies (network, IAM, etc.) from derived Software Bill of Behavior.
  - Runtime Success: Ensure the existence of application-specific infrastructure and integrated APIs
  - Application Transportability: Enable applications to move across environments using a common descriptive language
- First deliverable: research on current state (<https://github.com/cncf/toc/pull/2087>)
- In progress: Observable Behaviors (eBPF) > spec, Runtime dependencies > spec



Runtime Conditions



Capability Catalogs

\*Not restricted to Score, other tool support is welcome

# Cloud Native and OCI Compliant Inner-Loop Tooling & Packaging for AI Engineers



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- Goals
  - Focus on the developer inner loop, everything an AI engineer does on a laptop/desktop before code or models ever reach CI/CD in a cloud-native environment:
  - An technical POC showing <10 min “idea-to-inference” path for cloud-native agent development on a developer laptop.
  - Clearly documented standards for OCI artefact standardization across runtimes and registries.
  - Specification / procedure to achieve MOF Class III compliant model distributions via any OCI registry.
  - Standardised process for leveraging model signing with artefacts-level provenance to support a verified end-to-end CI/CD reference pipeline including outer loop for AI engineering.
- Approved by the TOC, looking for volunteer(s) to drive the effort

# Discussion and Questions



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# We need your input and feedback!

State of AI assisted development within the CNCF



Share your success (and failure) stories adopting the  
CNCF Security checklist



# We need your input and feedback!



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Everyone is welcome to join TAG DevEx! To participate:



<https://lists.cncf.io/g/cncf-tag-developer-experience/>



<https://github.com/cncf/toc/tree/main/tags/tag-developer-experience>



[#tag-developer-experience](https://cloud-native.slack.com/archives/C08KGCXB458)



<https://contribute.cncf.io/community/tags/developer-experience/>





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