



KubeCon



CloudNativeCon

Europe 2026

#KubeCon #CloudNativeCon

Introduction to TAG Infrastructure

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Who are we?



Dylan Page
Maintainer, **RunAtlantis.io**
Co-chair, **CNCF TAG Infrastructure**
Co-chair, **K8s SIG Infra**
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Kashif Khan
Maintainer, **Metal3.io**
Co-chair, **CNCF TAG Infrastructure**
Open Source Architect, **Ericsson**
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TAG Reboot



TAG Operational Resilience

- Observability
- Management
- Business Continuity
- Resource Optimization
- Cost Efficiency
- Energy
- Performance
- Troubleshooting
- Reliability
- Day 2 Ops

TAG Developer Experience

Microservices, Streaming, Messaging, API Management, Dev Frameworks

TAG Workloads Foundation

Containers, OS, Runtime, Virtual Machines, Serverless, Web Assembly, Databases, Batch, Scheduler, Orchestrator, Deployment, Dynamic Scaling, CI/CD

TAG Infrastructure

Data, Storage, Network, DNS, Compute, Service Mesh, Infrastructure-as-Code, Edge, Sovereignty, Load Balancing

TAG Security and Compliance

- Security hygiene
- Policy-as-code
- Compliance
- Auditing
- Threat Modeling
- Secure Software Supply Chain

TAG Reboot References

TAG Reboot TOC GitHub Issue



TAG Reboot Presentation Slides



Who we are

We are a diverse community of developers and end-users of Cloud Native technologies with a focus on Data, Storage, Network, DNS, Compute, Service Mesh, Infrastructure-as-Code, Edge, Sovereignty, and Load Balancing.

Co-Chairs

Dylan Page
Kashif Khan
Xing Yang

Tech Leads

Alexa Griffith
Antonio Ojea
Bruno Schaatsbergen
Zhonghu Xu

TOC Liaison: Ricardo Rocha & Karena Angell



Charter: Mission & Focus

- Defines & advances cloud-native infrastructure practices
- Ensures scalable, resilient, secure, performant systems
- Addresses infra challenges faced by adopters
- Aligned with CNCF technical vision & TOC charter

Charter: Core Technical Domains

- **Data:** logs, metrics, configs, user data
- **Storage:** block, file, object, DB, caching, messaging
- **Networking:** DNS, gateways, service mesh, policy, observability
- **Compute:** runtimes, isolation, accelerators (GPU/DPU/TPU)
- **Infra Management:** IaC, orchestration, drift, compliance
- **Edge & Sovereignty:** distributed, regulated, multi-cluster

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cilium



Istio



envoy

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Open Policy Agent



Kyverno

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KubeEdge



Kubescape

Charter: Deliverables & Success Criteria

- **Outputs:** frameworks, whitepapers, best practices
- **Initiatives:** focused, time-bound research or assessments
- **Subprojects:** ongoing stewardship and services
- **Success:** active workstreams, community growth, adoption

Charter: Coordination & Alignment

- Work with CNCF Projects, TAGs, and TOC subprojects
- Drive ecosystem-wide alignment on infra standards
- Enable cross-TAG collaboration for cohesive stacks
- Advance TOC's problem-centric technical vision

Initiative: CNCF Storage Landscape V3

- [Initiative issue: CNCF Storage Landscape Whitepaper V3](#)
- Definition of the attributes of a storage system
- Definition of the layers in a storage solution with a focus on terminology and how they impact the attributes
- Definition of the data access interfaces in terms of volumes and application APIs
- Definition of the management interfaces

Initiative: Data Storage in Cloud Native AI

- Initiative issue: Data Storage in Cloud Native AI
- Describe characteristics of AI/ML workloads and their implications for data storage.
- Describe patterns and trends in data storage for cloud native AI
 - Data warehouses, data lakes, and data lake houses
 - Data cache and data locality
 - Vector databases
 - Block, file, and object storage
 - Data mesh and data fabric
- Describe the storage requirements and usage patterns in the AI lifecycle including training, inference, etc.

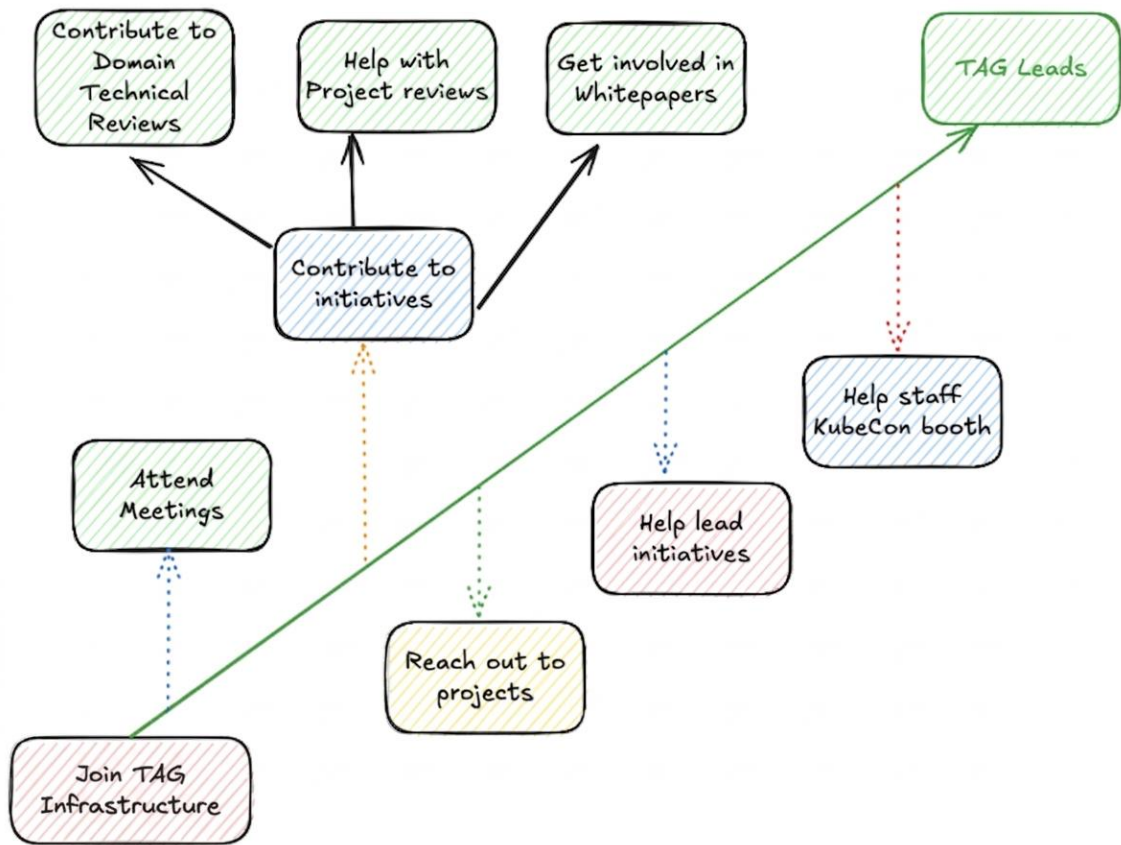
Initiative: Infrastructure Lifecycle

- [Initiative Issue: Infrastructure Lifecycle #1631](#)
- Managing infra lifecycle: Provisioning patterns and lifecycle management paradigms
- Guided by cloud-native principles: secure, resilient, observable, manageable
- Applies to public, private, and hybrid cloud environments
- Reconciliation-based vs event-driven provisioning
- Declarative vs imperative

Ways to Contribute

- Contributors to supporting existing CNCF projects!!!
- Contributors to Initiatives
- Contributors to TOC Subproject Project Reviews
- Domain Technical Reviews
- Refining of the TAG scope
- Are there gaps?
- Identifying industry trends
- Upcoming trends
- Best practices
- Community advocates (social media, talks, etc)

Contributor Ladder



Community Links

CNCF Slack #tag-infrastructure



TAG Infrastructure LFX Meetings



Feedback





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Thank You

