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Navigating the CNCF landscape, the right way

Divya Mohan, Kunal Kushwaha, Saiyam Pathak, Savitha Raghunathan





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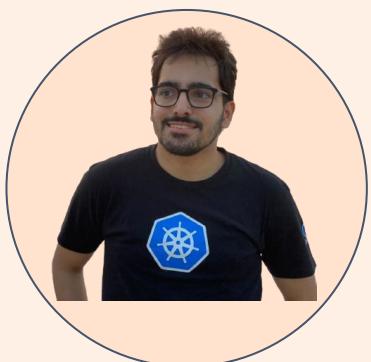


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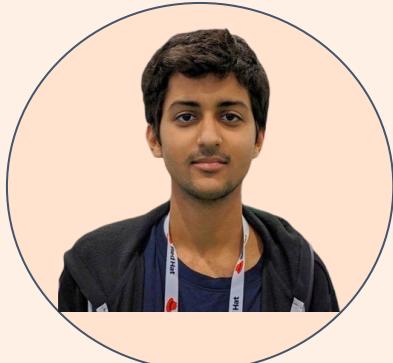
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What is Cloud Native?

What is CNCF ? Why was it required?

CNCF projects are the foundation of cloud native computing

As part of the [Linux Foundation](#), we provide support, oversight and direction for fast-growing, [cloud native](#) projects, including Kubernetes, Envoy, and Prometheus.

16 GRADUATED
PROJECTS

34 INCUBATING
PROJECTS

71 SANDBOX
PROJECTS

[ALL PROJECTS](#)



Buildpacks.io



Chaos Mesh



cilium



cloudevents



CNI



contour



CONTOUR



CoreDNS



cortex



Prometheus



OPERATOR
FRAMEWORK



OpenTelemetry



OPENMETRICS



Open Policy Agent



Notary



NATS



LONGHORN



Litmus



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What are the different types of projects?

Sandbox

Incubating

Graduated

What is the CNCF landscape?



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The goal of the cloud native landscape is to compile and organise all cloud native open source projects and proprietary products into categories, providing an overview of the current ecosystem. Organisations that have a cloud native project or product can [submit a PR](#) to request it to be added to the landscape.



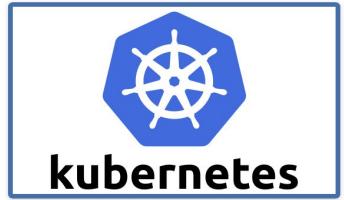
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What is a CNCF card and what are the details we can infer from it?

When looking at the landscape, you'll note a few distinctions:

- *Projects in large boxes* are CNCF-hosted open source projects. Some are still in the incubation phase (light blue/purple frame), while others are graduated projects (dark blue frame).
- *Projects in small white boxes* are open source projects.
- *Products in gray boxes* are proprietary products.





Kubernetes

Cloud Native Computing Foundation (CNCF)

Orchestration & Management · Scheduling & Orchestration

Kubernetes is an open-source system for automating deployment, scaling, and management of containerized applications

Website	kubernetes.io	
Repository	github.com/kubernetes/kubernetes	
Crunchbase	crunchbase.com/organization/cloud-native-computing-foundation	
LinkedIn	linkedin.com/company/cloud-native-computing-foundation	
Twitter	@kubernetesio	Latest Tweet 3 weeks ago
First Commit	8 years ago	Latest Commit 3 weeks ago
Contributors	500+	Latest Release about a month
Headquarters	San Francisco, California	Headcount 11-50
Funding	\$3M	
Accepted	6 years ago	
Dev Stats	https://k8s.devstats.cncf.io/	
Artwork	https://github.com/cncf/artwork/blob/master/examples/graduated.md#kubernetes-logos	
Stack Overflow	https://stackoverflow.com/questions/tagged/kubernetes	
Blog	http://blog.kubernetes.io/	
Mailing List	https://groups.google.com/forum/#forum/kubernetes-dev	
Slack	http://slack.k8s.io/	

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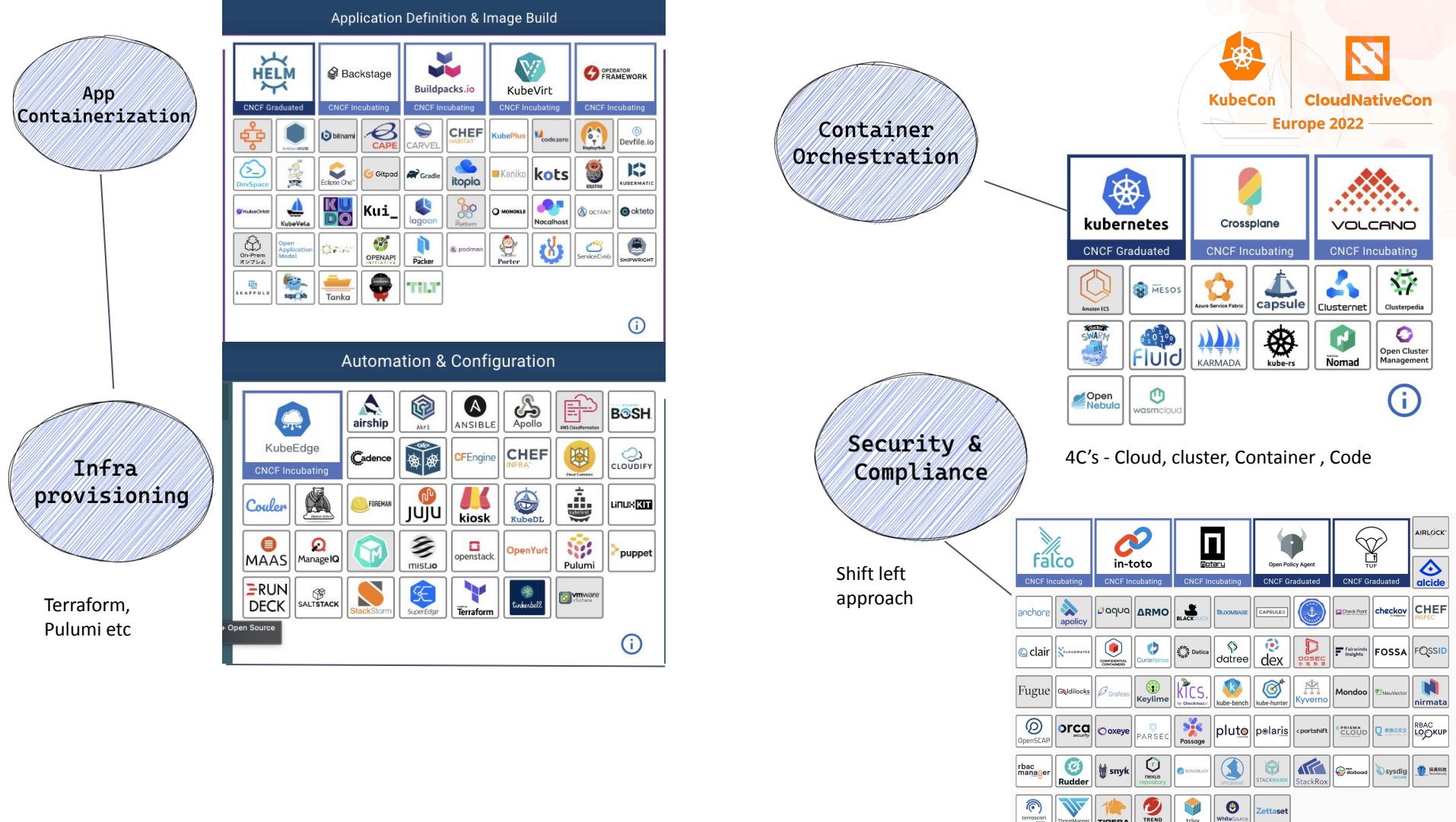
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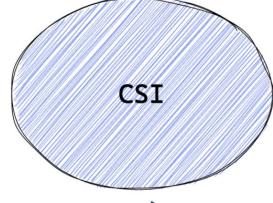
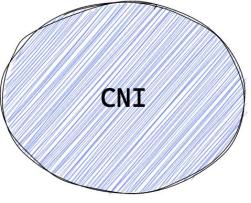
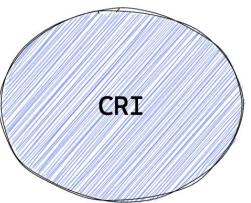
- **Project info from GitHub**
- **Funding info from Crunchbase**
- **Market cap data from Yahoo Finance**
- **CII Best practices Badge data**



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How to navigate the landscape?





CNCF Incubating



CNCF Incubating



ANTREA



aviatrix



CNI-Genie



CUMULUS



flannel



ISOVALENT



KUBE-ROUTER



MULTUS



Weave net



RING



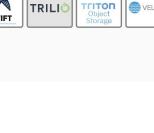
STORAGES



STORPOOL



SWIFT



TRITON Object Storage

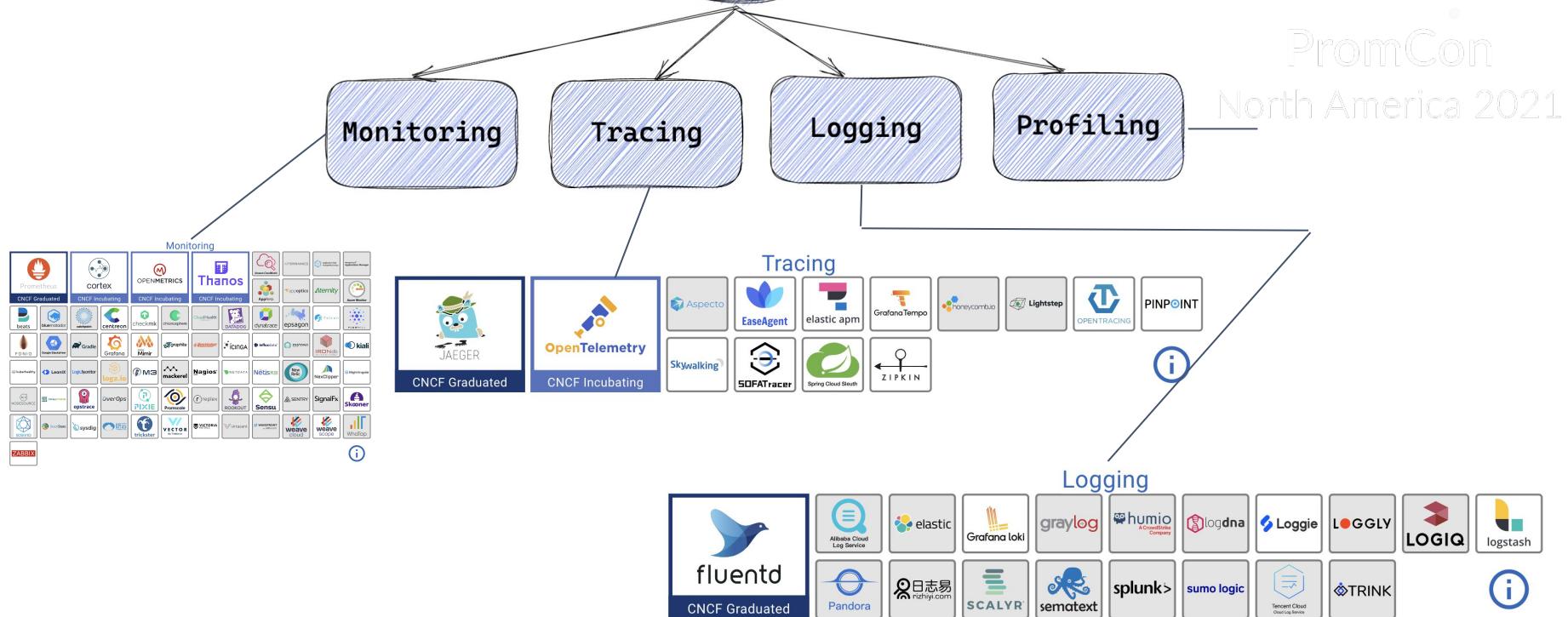


Vineyard



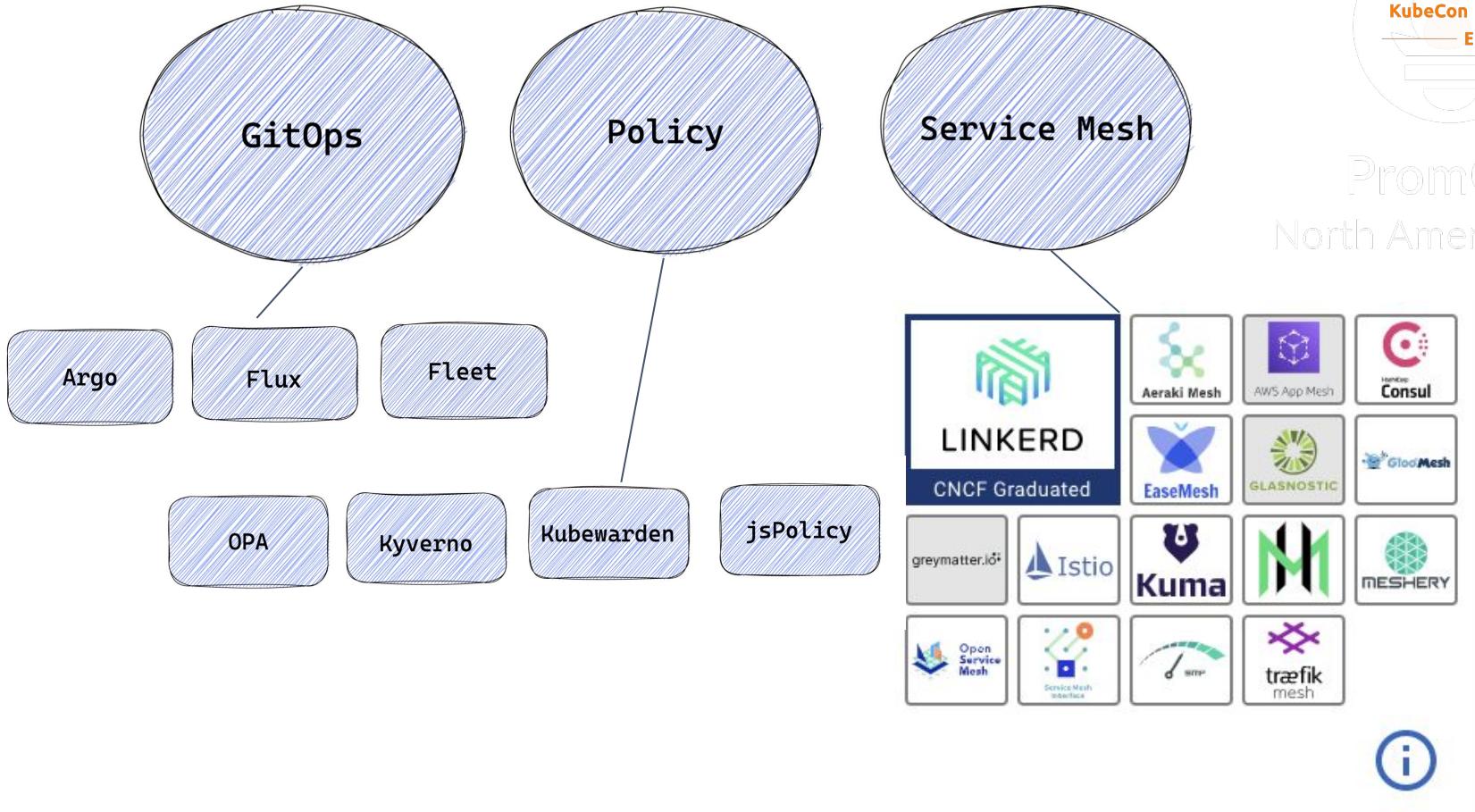


Observability and analysis





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How to choose a project when we stumble on a problem for ecosystem?

1. Match your requirements with project specifications
2. Think about scaling from the start
 - a. Proof of concepts (POCs) for multiple projects
 - b. Worried about migration?



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**What are some CNCF terminology that
people starting out should be familiar
with?**



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What are the possible areas for contributions?