

8 Steps to Build an Open Source GitOps Cloud Native Platform on the Civo Cloud



Presenting Sponsors







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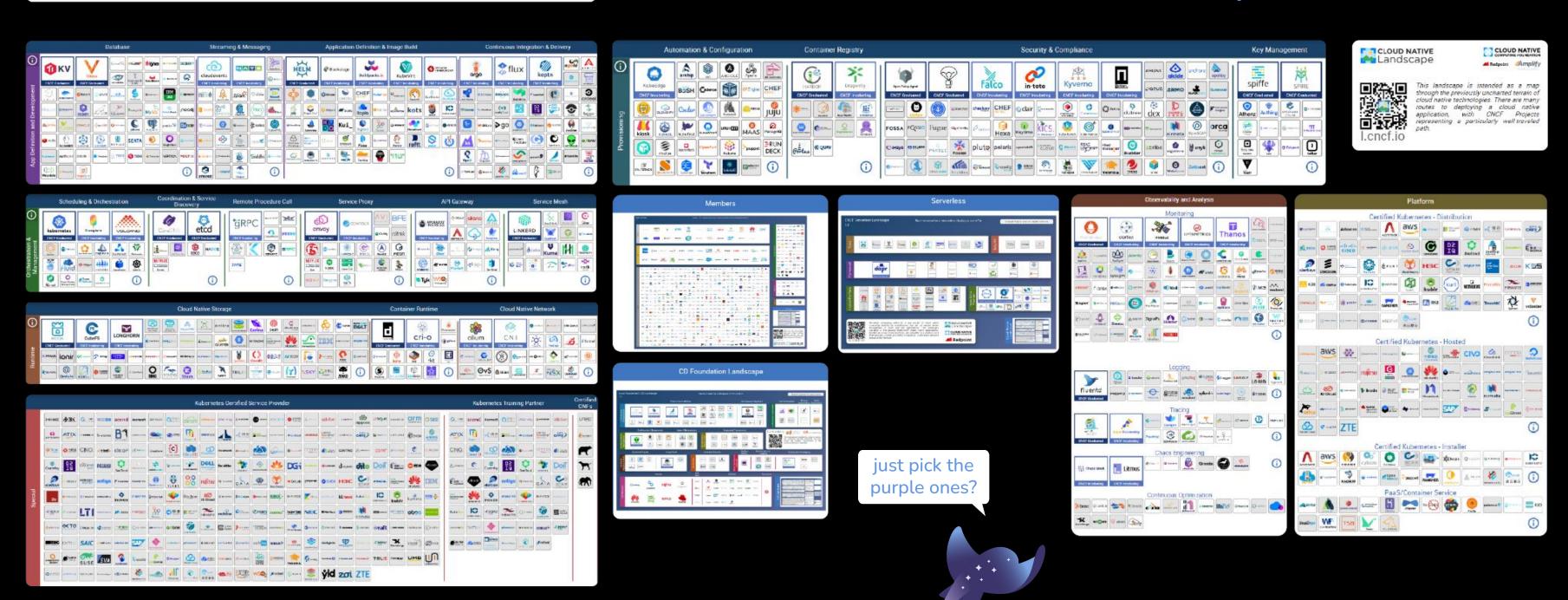
Kubernetes Wins





CNCF Cloud Native Interactive Landscape

The Cloud Native Community is THRIVING!





Your first 8 cloud-native platform needs (in order)

- git provider
- infrastructure as code
- gitops driver
- secrets manager
- artifact repository
- continuous integration
- authentication & authorization
- observability

how fun! let's see it!





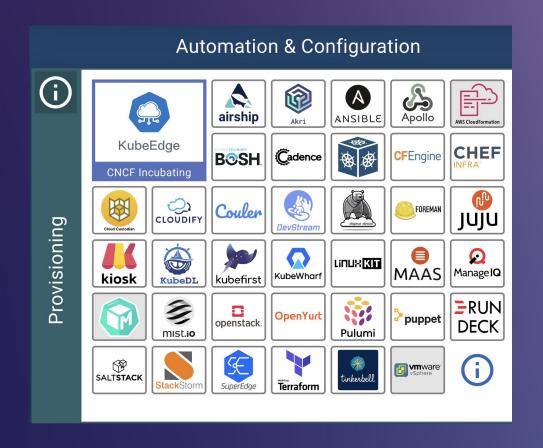
1. Git Provider







2. Infrastructure as Code











3. GitOps Driver











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4. Secrets Manager

- secrets storage
- ephemeral credentials
- pki infrastructure
- identity provider
- oidc provider
- cloud access leasing
- single sign on
- secure and open source
- scalable and recoverable





5. Artifact Repository

Container Registry











6. Continuous Integration











7. Authentication and Authorization

- establish roles
- establish access controls and iam
- bind roles to cloud access
- bind roles to kubernetes access
- bind roles to platform tools access
- automate engineering onboarding and offboarding
- enforce two factor authentication

least privilege!





8. Observability

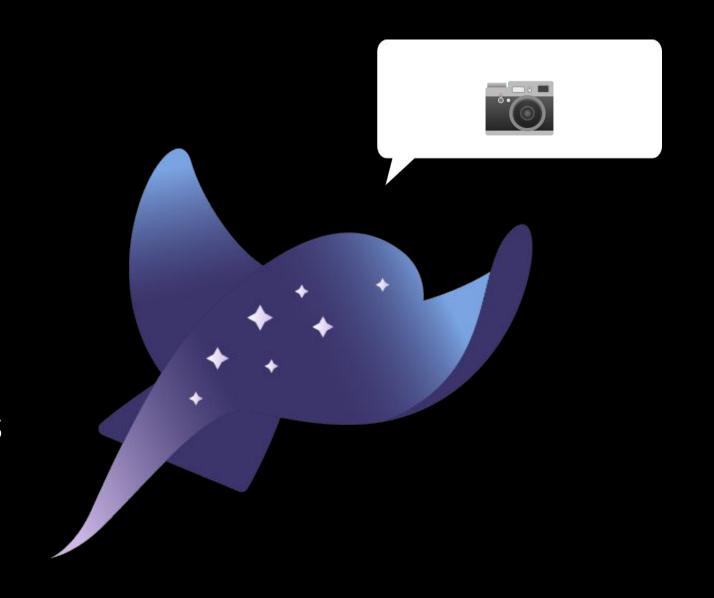


- logging
- application performance monitoring
- resource utilization
- monitoring
- dashboarding
- anomaly detection
- incident management



Recap

- establish git
- put your iac in git and automate it
- establish the gitops driver
- establish your secrets manager
- establish your artifact repository
- establish your continuous integration
- add auth to the platform infra and tools
- wire in your observability





Scenarios To Avoid

- Don't establish CI without a secrets manager
- Don't start scripting: leverage gitops
- Don't run local terraform: automate it
- Don't delay single sign on

don't start with tech debt





kubefirst open source platform



Thank You Tampa!!!







