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Introducing the BACK Stack!

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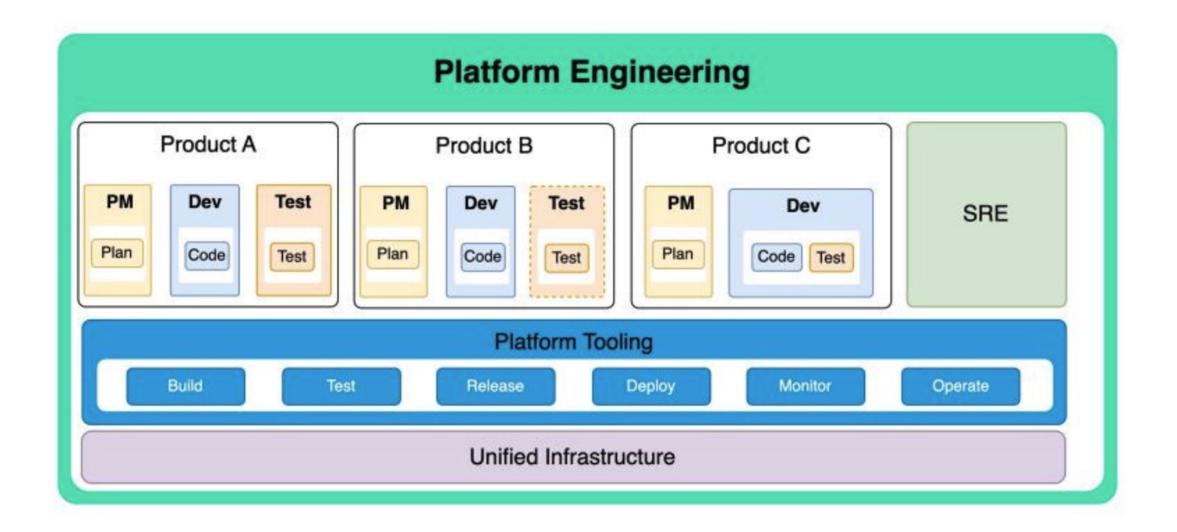
Agenda



- Introductions
- Platform Engineering
- Components of Internal Developer Platform
- The BACK Stack
- Demo
- What's Next

The Rise of Platform Engineering





Responsibilities of a Platform Engineer



Build a shared platform, including the tools, services, workflows, and data used by engineers and technical teams across the organization

- ✓ Design and implement platform infrastructure
- ✓ Automate infrastructure and application deployment (self-service)
- ✓ Provide troubleshooting and debugging support, if needed
- ✓ Implement best practices, security and compliance guardrails
- ✓ Monitor and optimize platform and share services/tools performance
- ✓ Manage and update infrastructure and tools

Business Benefits

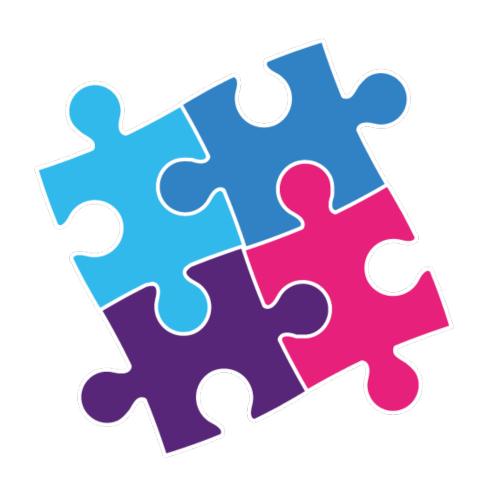


- Reduce operational complexity
- Speed up development cycle and accelerate product delivery
- Eliminate silos and improve collaboration
- Optimize resource utilization
- Mitigate risk via consistent security and governance

Platform Requirements



- Composable
- Cloud-agnostic
- Kubernetes-native
- Uses mature CNCF components
- Flexible
- Extensible

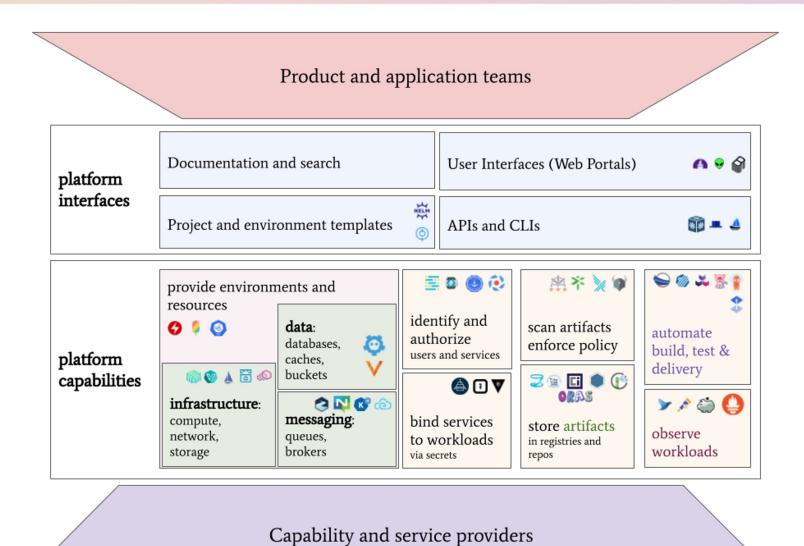


CNCF Platform





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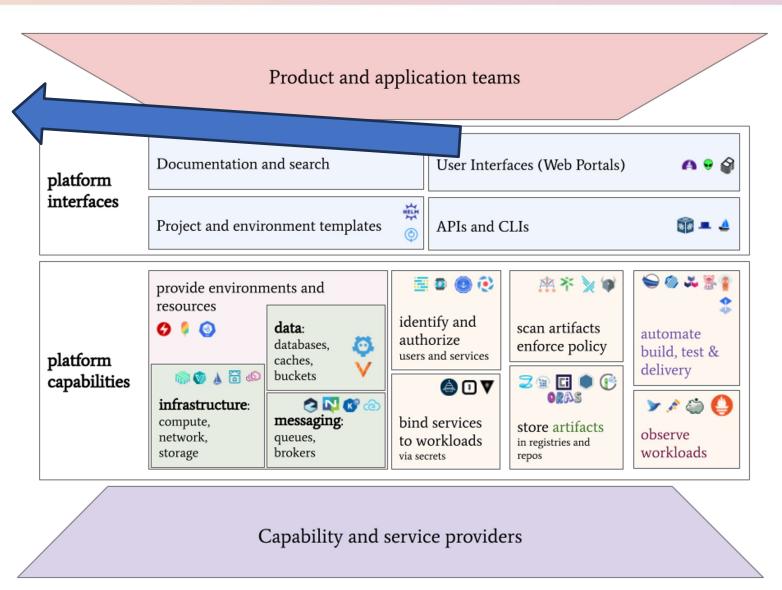
The BACK Stack







[Developer Portal]

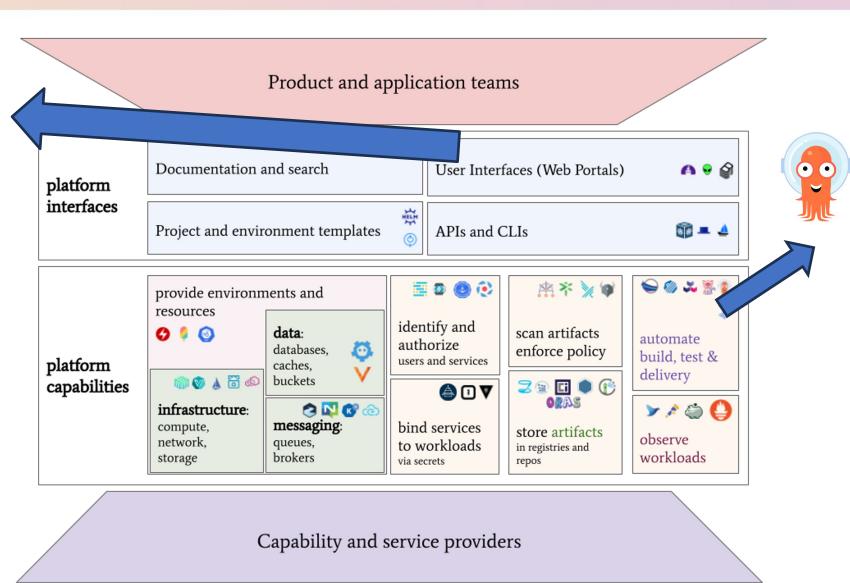






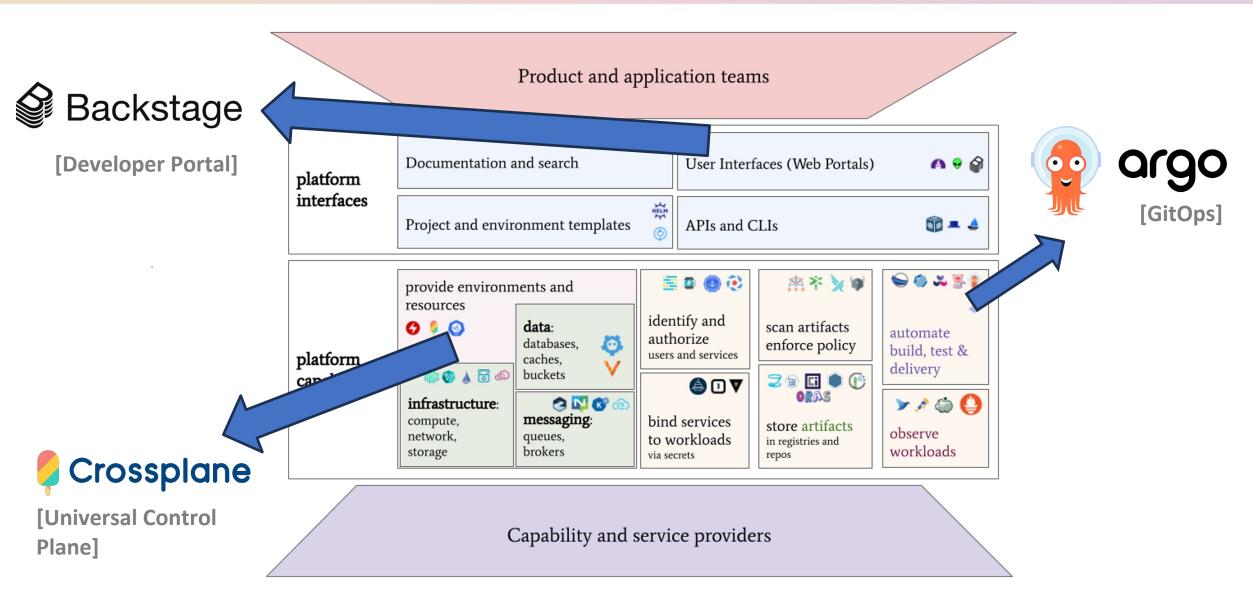


[Developer Portal]



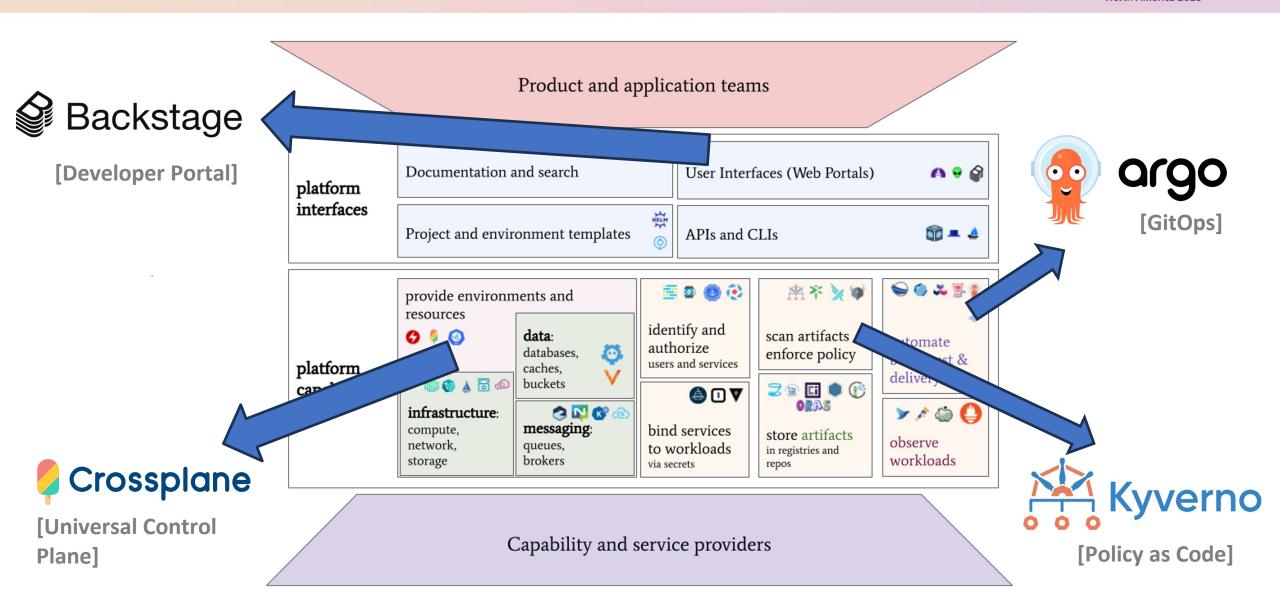
















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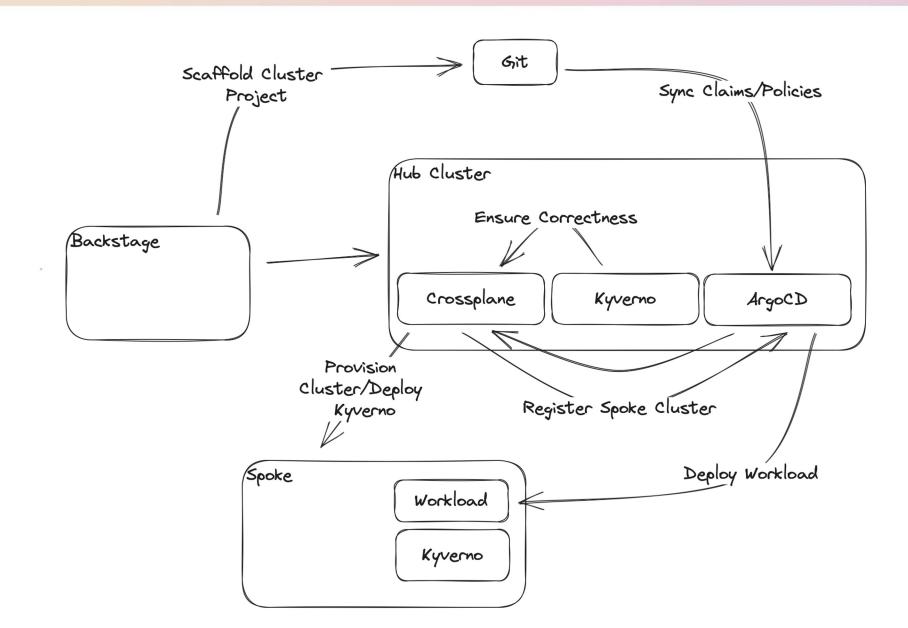
Demo

Reference Architecture





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What's Next...



- Flexible bootstrapping
- Additional use cases e.g. Namespace as a service
- Operator dashboards
- Integrations

Try it out





Backstage

https://backstage.io/

ArgoCD

https://argo-cd.readthedocs.io/

Crossplane

https://www.crossplane.io/

Kyverno

https://kyverno.io/





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Thank You!