

The Future of Feature Flags and Continuous Delivery

Shifting to Feature First Organizations

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Continuous Delivery

Code is always in a deployable state, even in the face of teams of thousands of developers making changes on a daily basis



Continuous Deployment

Every change goes through the pipeline and automatically gets put into production



Where Can Continuous Deployment Fall Short?

- HARD!!
- But even when achieved:
 - Testing primarily occurs pre-production without "real world" factors
 - Deployments and releases are conjoined as one step
 - Limited ability to roll out features to specific customer subsets
 - Some customers may not want continuous updates



Traditional CD vs. CD with Feature Flags

Traditional CD

- Hard
- Emphasis on intensive pre-production testing
- Users get different versions
- "All or nothing" rollout or rollback of a release based on feature dependencies and performance
- Business teams and developer must work in tandem to deploy a release to production at the ideal time

CD + Feature Flags

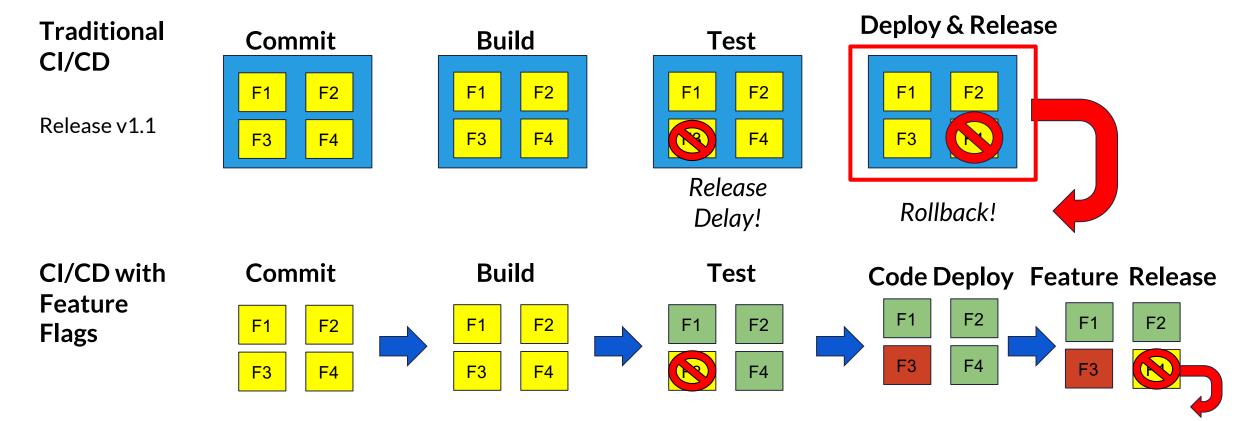
- Easier reaching CD
- Greater shift to testing in production
- Everyone gets the same version but different features
- Independent feature releases can be rolled out or back without impact the others
- Deploying code to production while the business (product or executives) decide on when to release the feature to customers decouples teams and increases productivity



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Full Release vs. Feature Granularity

- Shifts organizations from product (full release) to feature focus and mindset
- Features are no longer bound by the release as a whole, changing the game



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CD + FF = CD + +

- Feature granularity
- Release consistency
- Better, faster testing
- Reduced delivery risk
- Shared visibility and governance across development and delivery teams



Feature Flag Maturity in CI/CD

Feature Flags	Enterprise FF Management	Enterprise Progressive Delivery	Enterprise Feature Lifecycle Management
Standalone development pattern used in silos	Using a standardized platform for scalability,	Integrated CI/CD + FF = CI/CD++	The ideal future state!
	visibility, governance, and	Shared view of flags across CI/CD	Fully shifted from
Standard targeted benefits in CI/CD	advanced functionality	tool sets across org	product to feature focus
	Generally where true	QA, Ops can see flags to pass or	Organization aligned
Either a limited	FFDD starts given	deploy	around visibility and
"homegrown"	common visibility and		impact of new features
management system or none at all	governance	Increased emphasis on feature vs. product release	



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Thank You

