

Fast track cloud development with JenkinsX

Juan Peredo

[linkedin.com/in/juanperedotech](https://www.linkedin.com/in/juanperedotech)

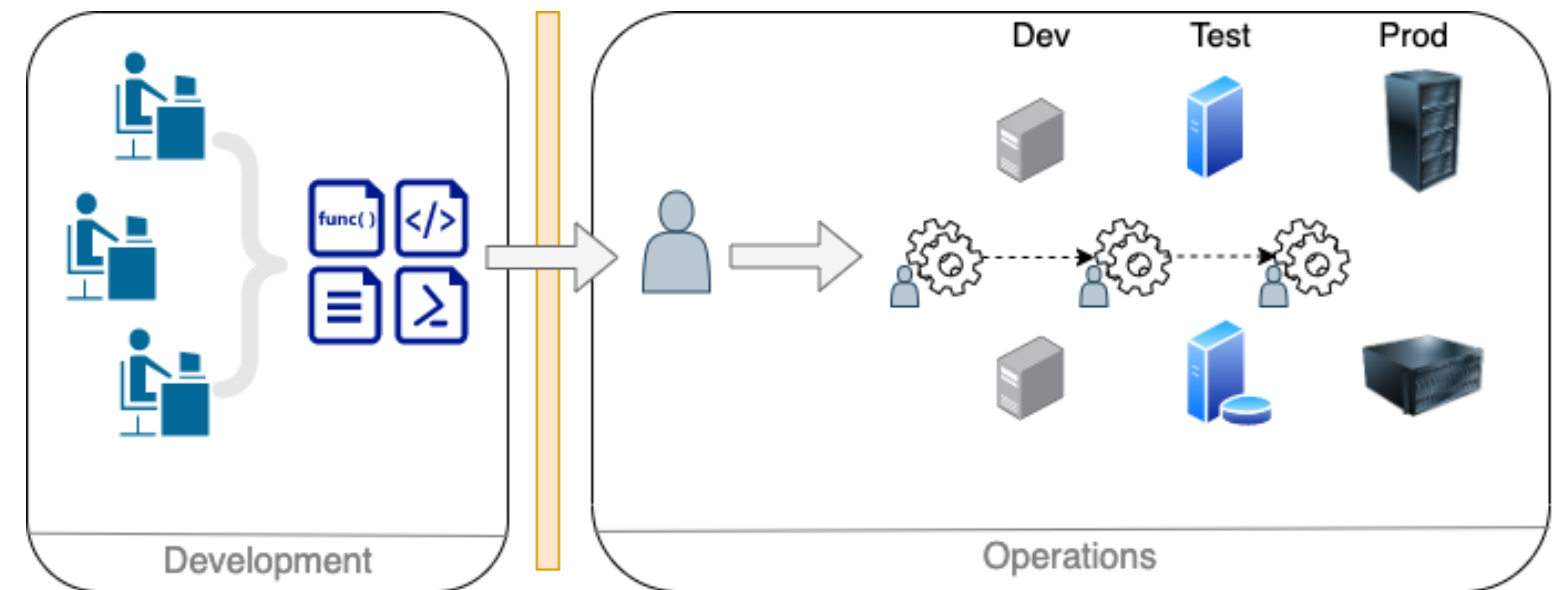
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**DEVOPS
WORLD**
by CloudBees

Traditional deployments

Custom scripts nightmare

- Multiple custom scripts used for deployments
- Multiple teams involved
- Hard to update and debug
- No visibility



Process may have
caused a little
stress...



Classic CI/CD

- General purpose tools
- Automated
- Standardized pipeline steps
- Better visibility



Jenkins

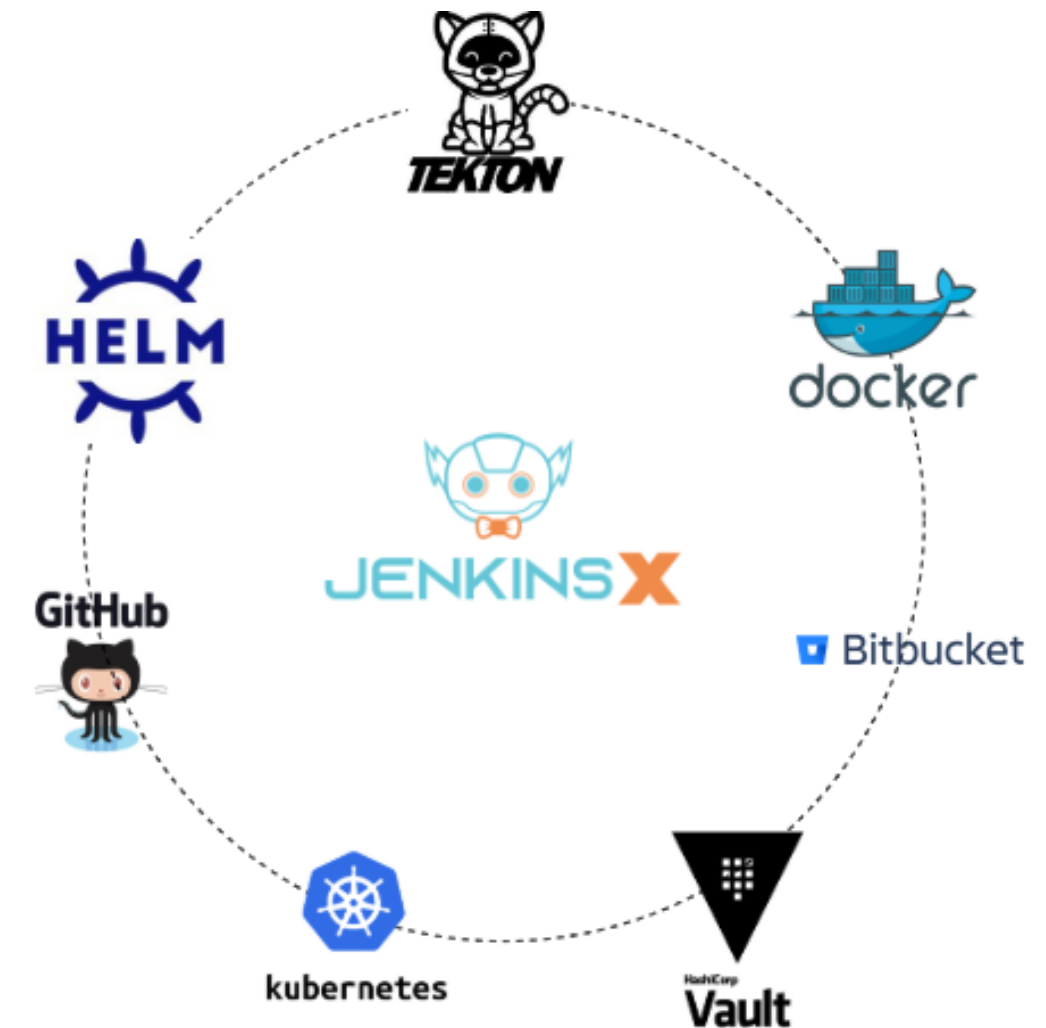
Cloud CI/CD

- Automated
- Great traceability and visibility
- Built for re-usability
- Cloud focus

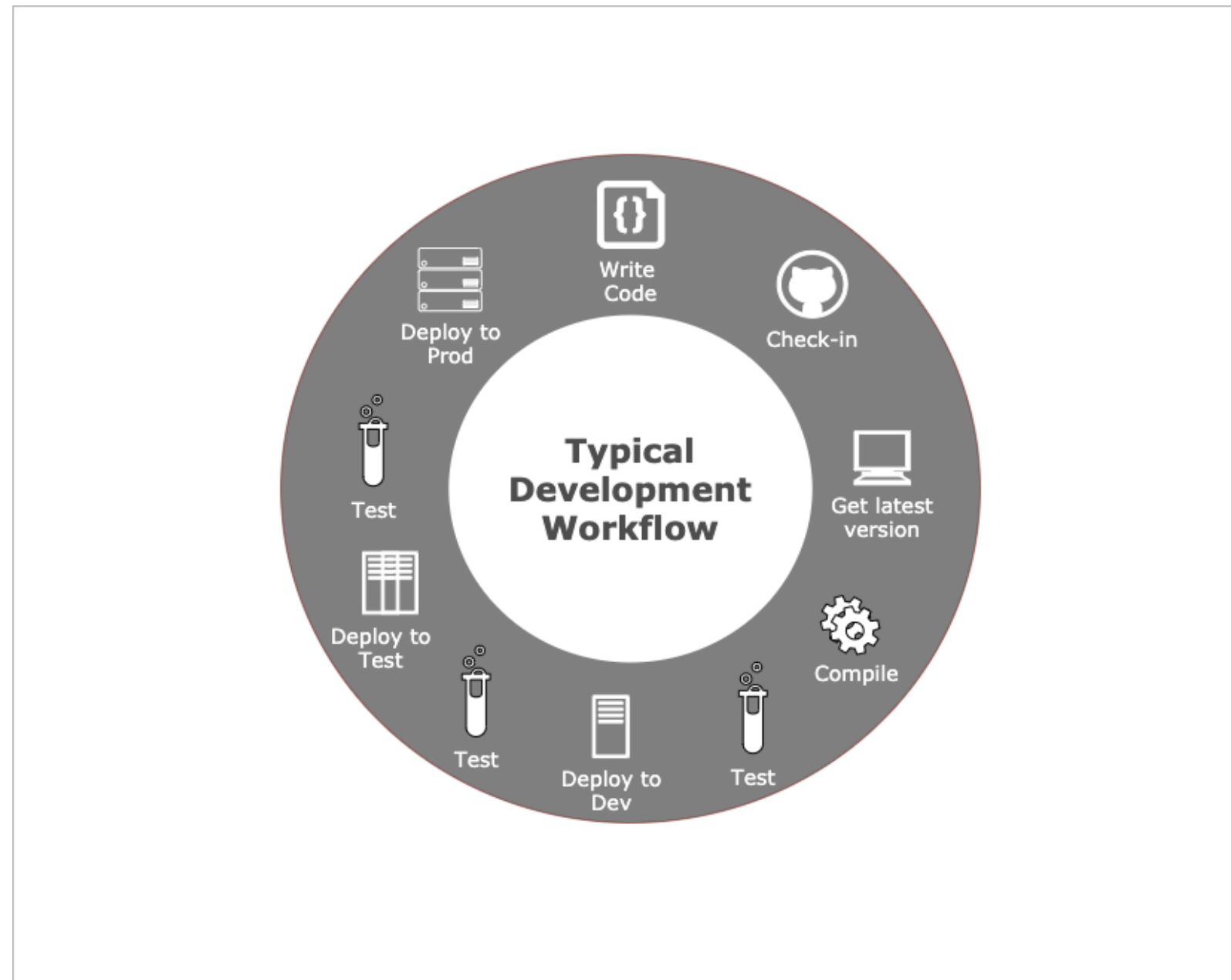


JX add milk to shopping list...

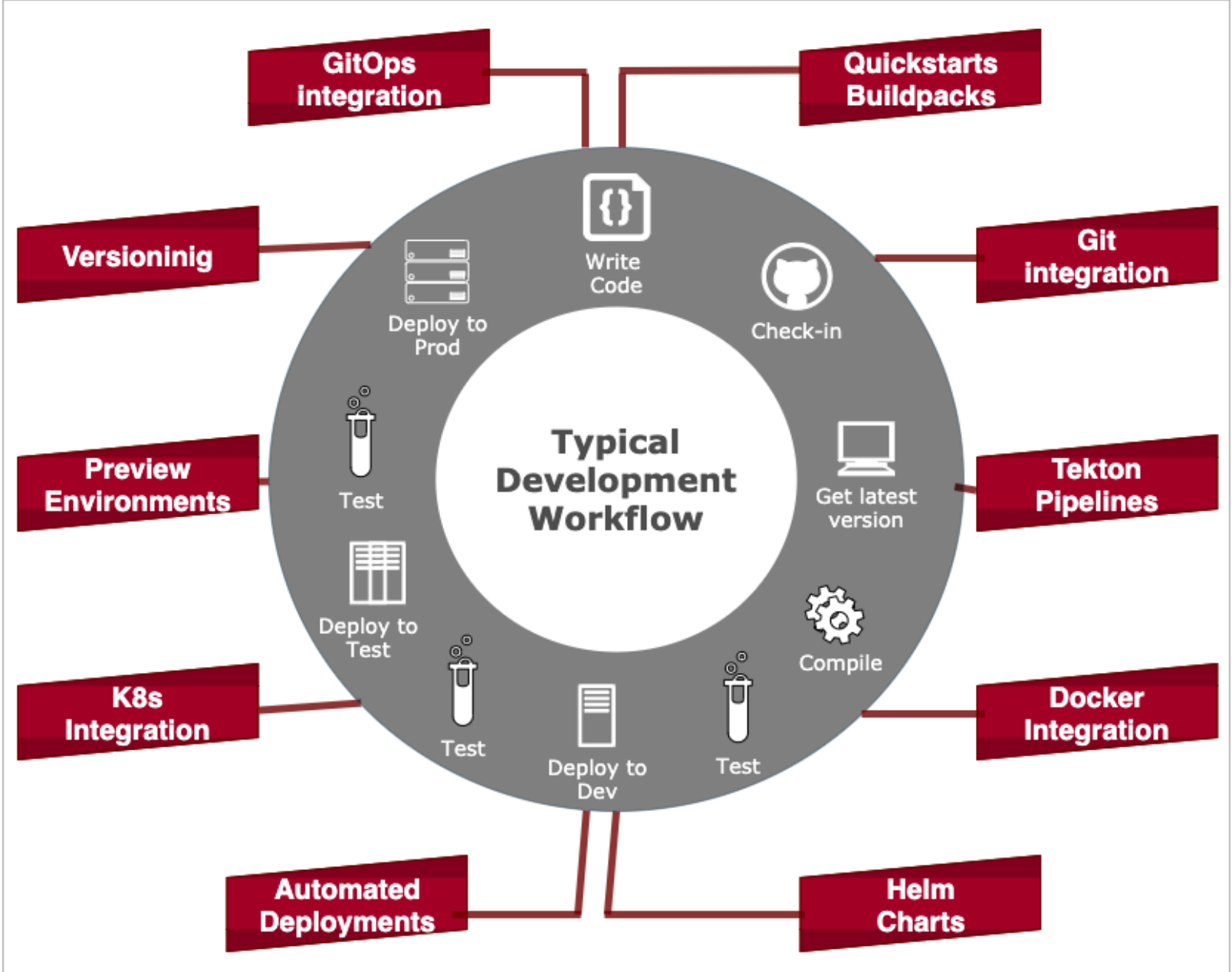
- Jenkins X is more than just pipelines:
 - Ecosystem to simplify everyday tasks
 - Opinionated (In a good way)
 - Cloud Native
 - Flexible and customizable
 - Combine with Terraform for cluster as code



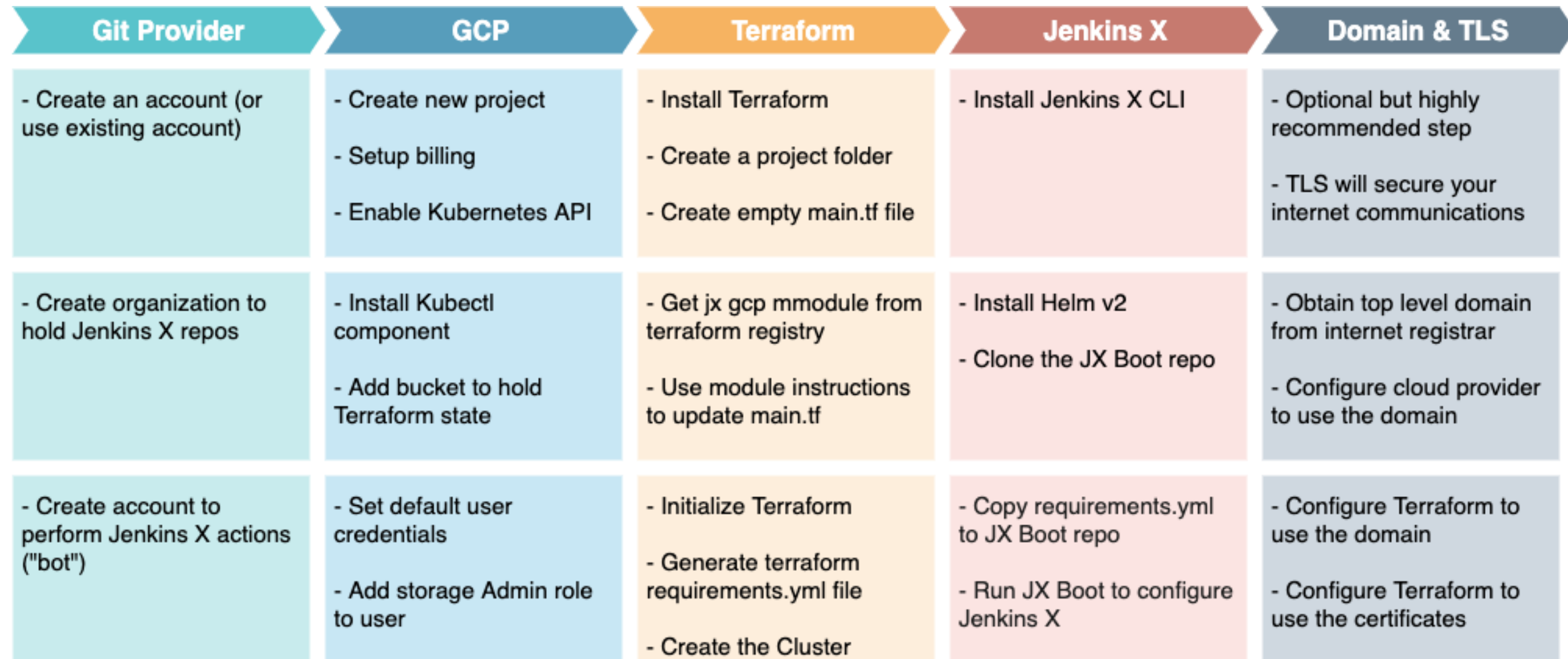
Classic dev workflow



Jenkins benefits

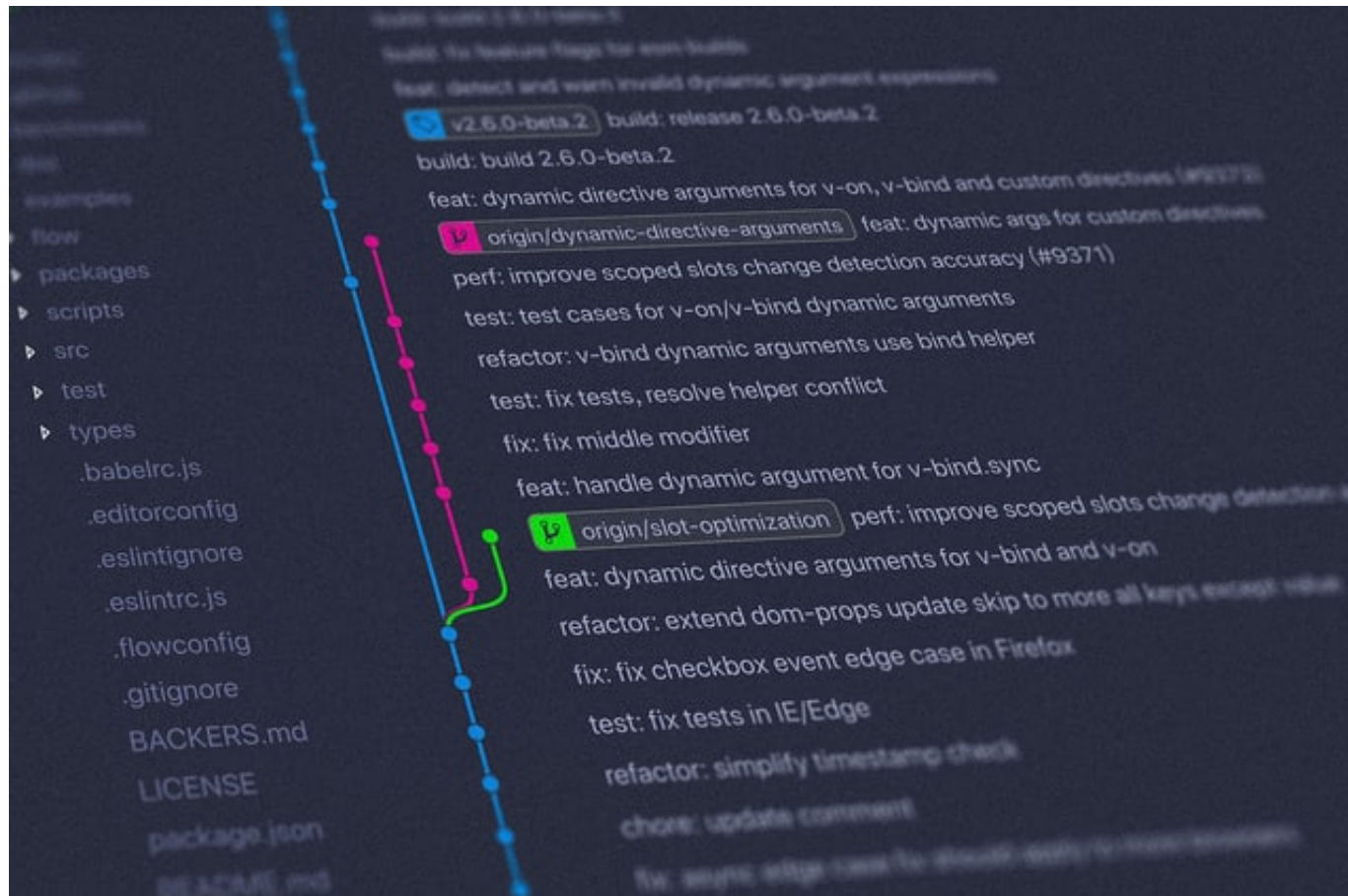


Setup Jenkins X



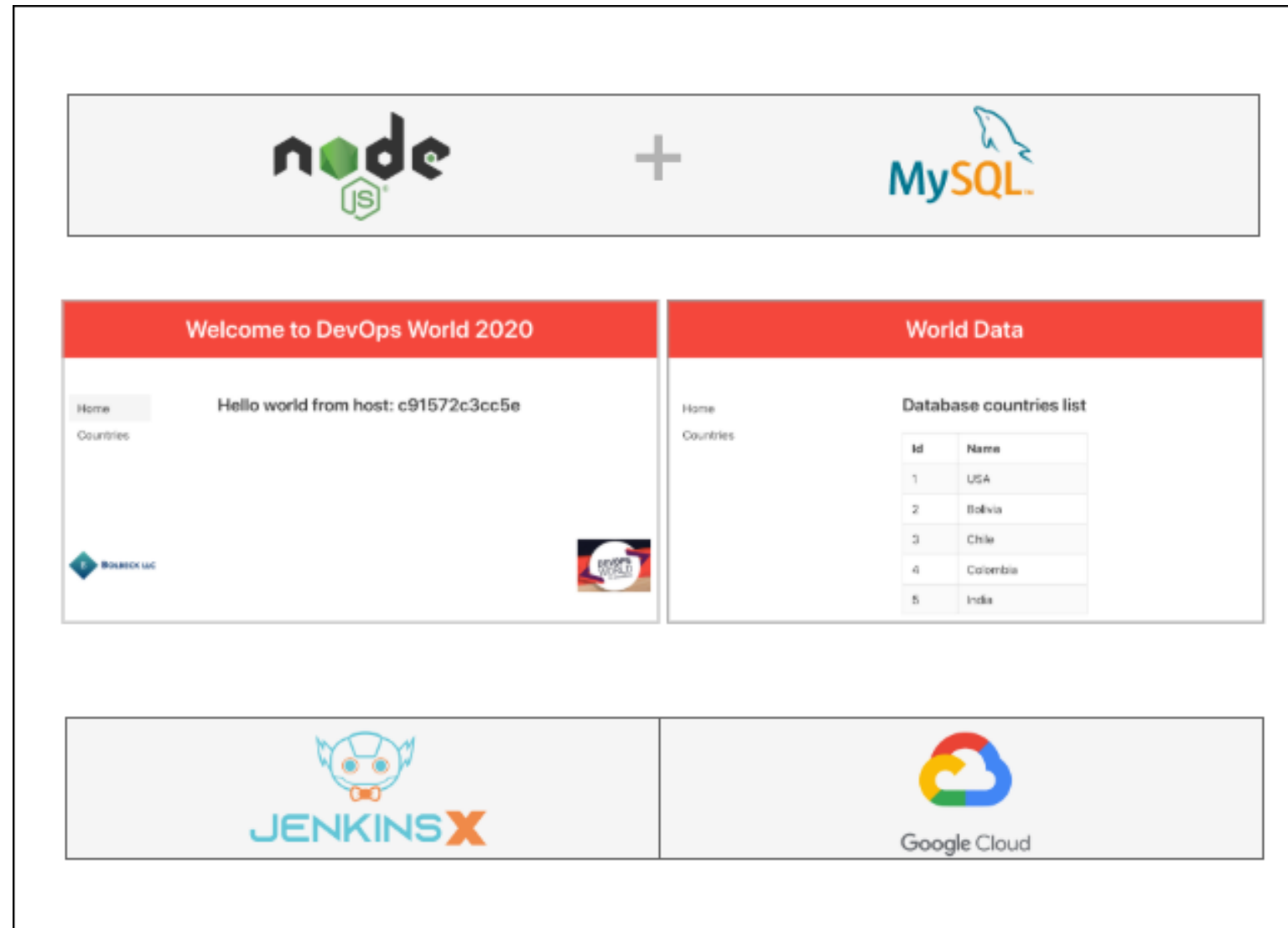
* Illustrative, refer to official install procedures for full install instructions. Setup on Mac OS, using GCP as cloud provider

Demo



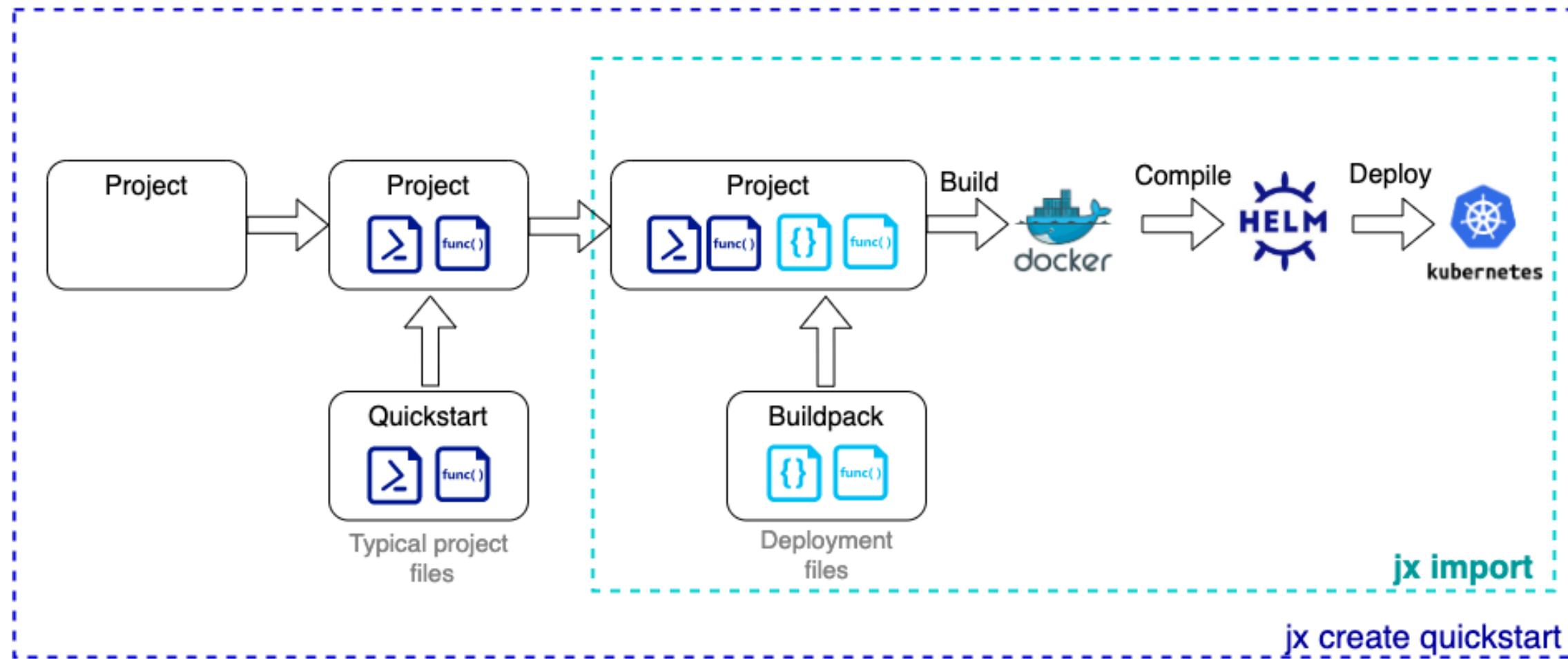
- **Goals:**
 - Zero to Production
 - Automate every day tasks
 - Everything as code

Our application



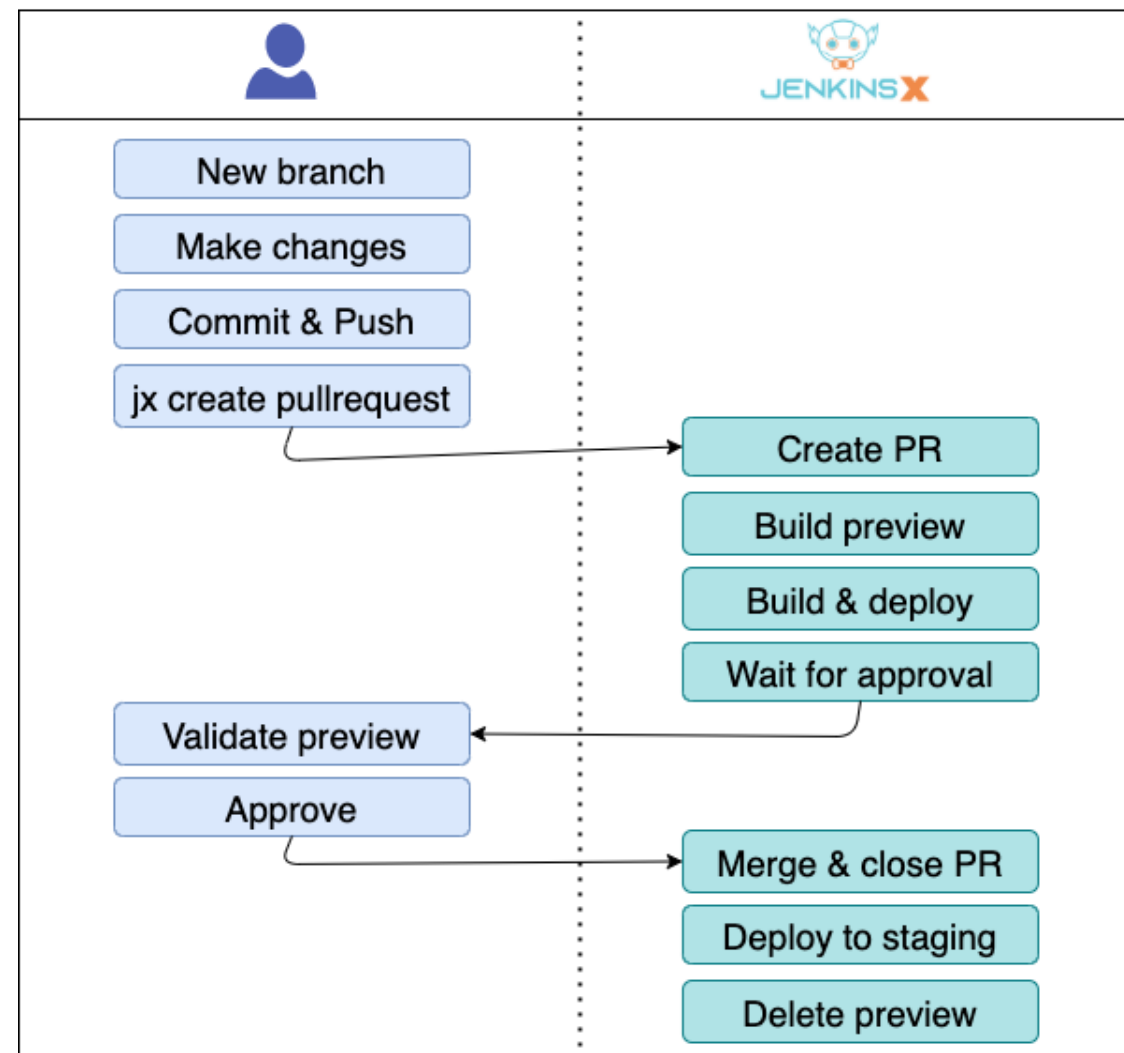
Initialize project

jx create and jx import



Change Management

jx create pullrequest










Deployment management

`jx promote`

- Deploy manually to prod by default
- Promote a version of app to any environment with `jx promote`
- Rollback by promoting previous version
- Can be configured to do different types of deployments

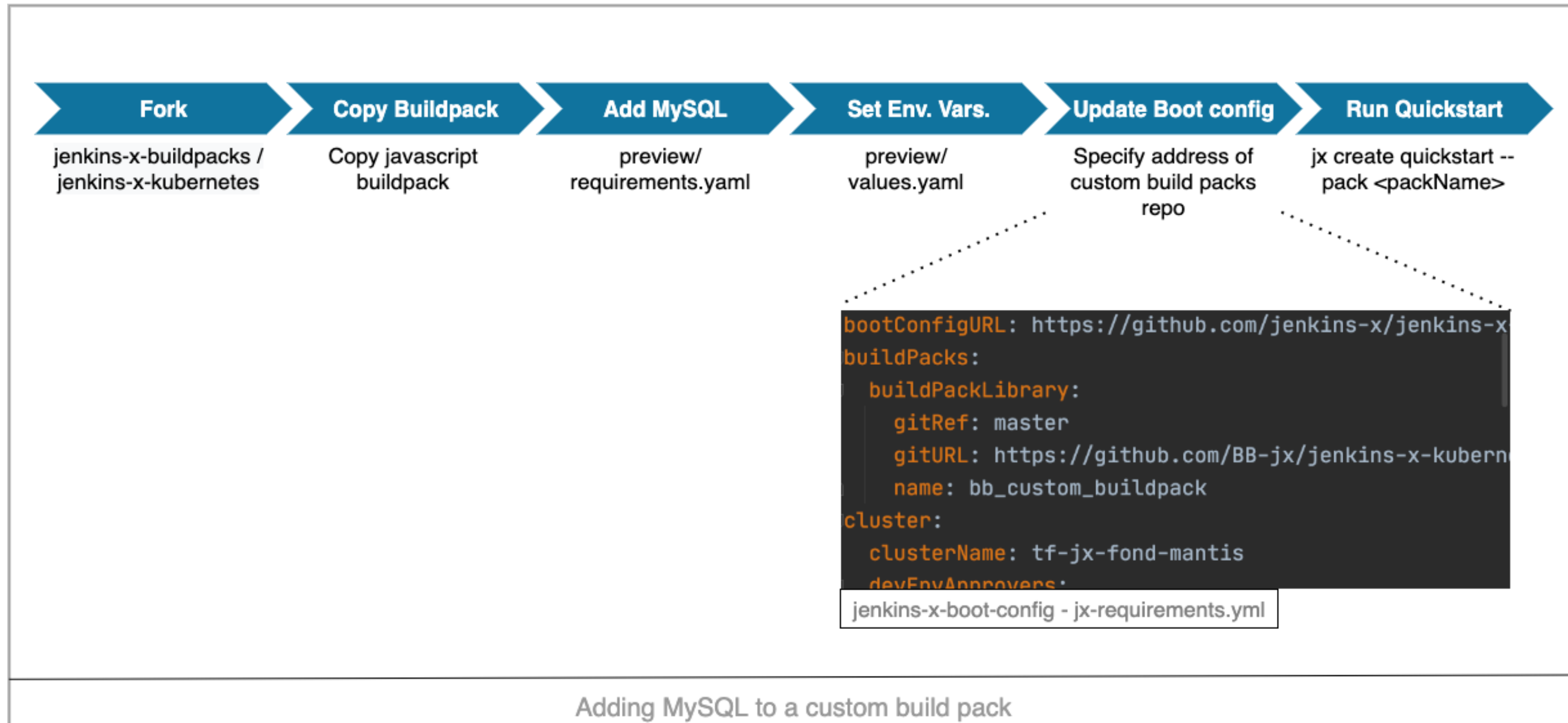
Summary

App Code 			
Initial application			
Init project & first deploy	jx import	Create / update repo	 Dev Stage
Pull request	jx create pullrequest	<ul style="list-style-type: none"> • Create PR • Run pipeline • Deploy Preview • Wait for approval • Merge PR • Delete Preview 	 Dev Stage Preview
Push to production	jx promote	<ul style="list-style-type: none"> • Create & close PR • Create release tag 	 Dev Stage Prod

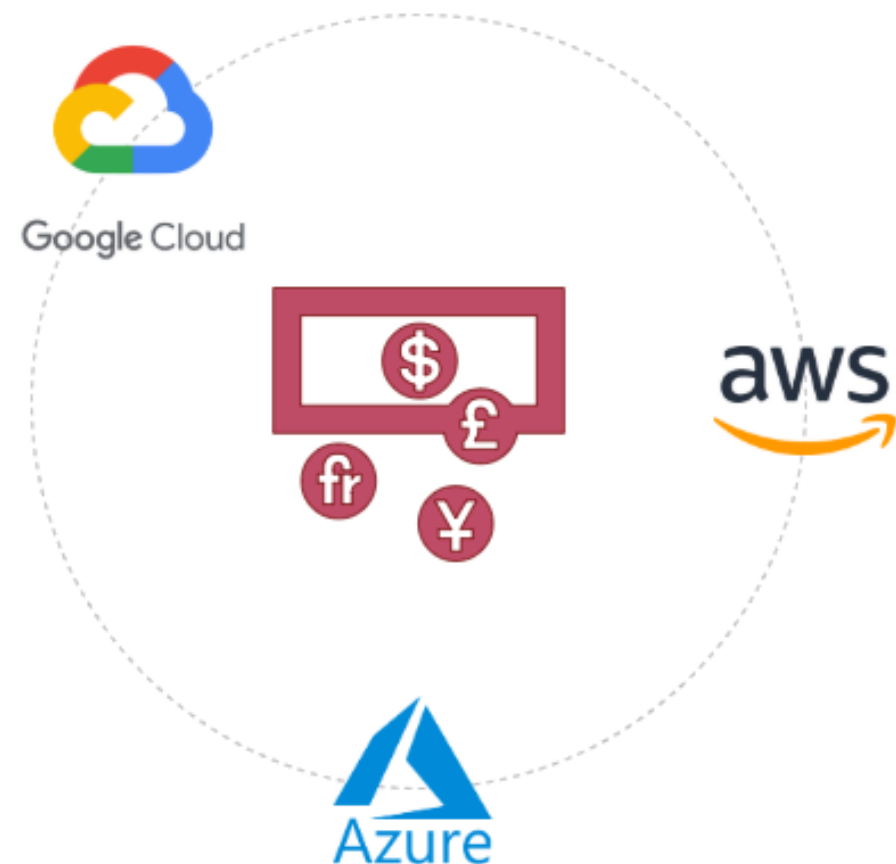
Inherited pipelines

```
our-project/jenkins-x.yml
jenkins-x.yml
1 buildPack: javascript
2
pipeline.yml
1 extends:
2   import: classic
3   file: javascript/pipeline.yml
4 pipelines:
5   pullRequest:
6     build:
7       steps:
8         - sh: export VERSION=$PREVIEW_VERSION && skaffold build -f ska
9           name: container-build
10  postBuild:
11    steps:
12      - sh: dx step post build --image $DOCKER_REGISTRY/$ORG/$APP_MA
jenkins-x.kunernetes/javascript//pipeline.yml
```


Custom build packs



Managing your cloud cost



Cloud deployments are priced per resource usage, time and storage

- Removing an application from Jenkins X

`jx delete application`

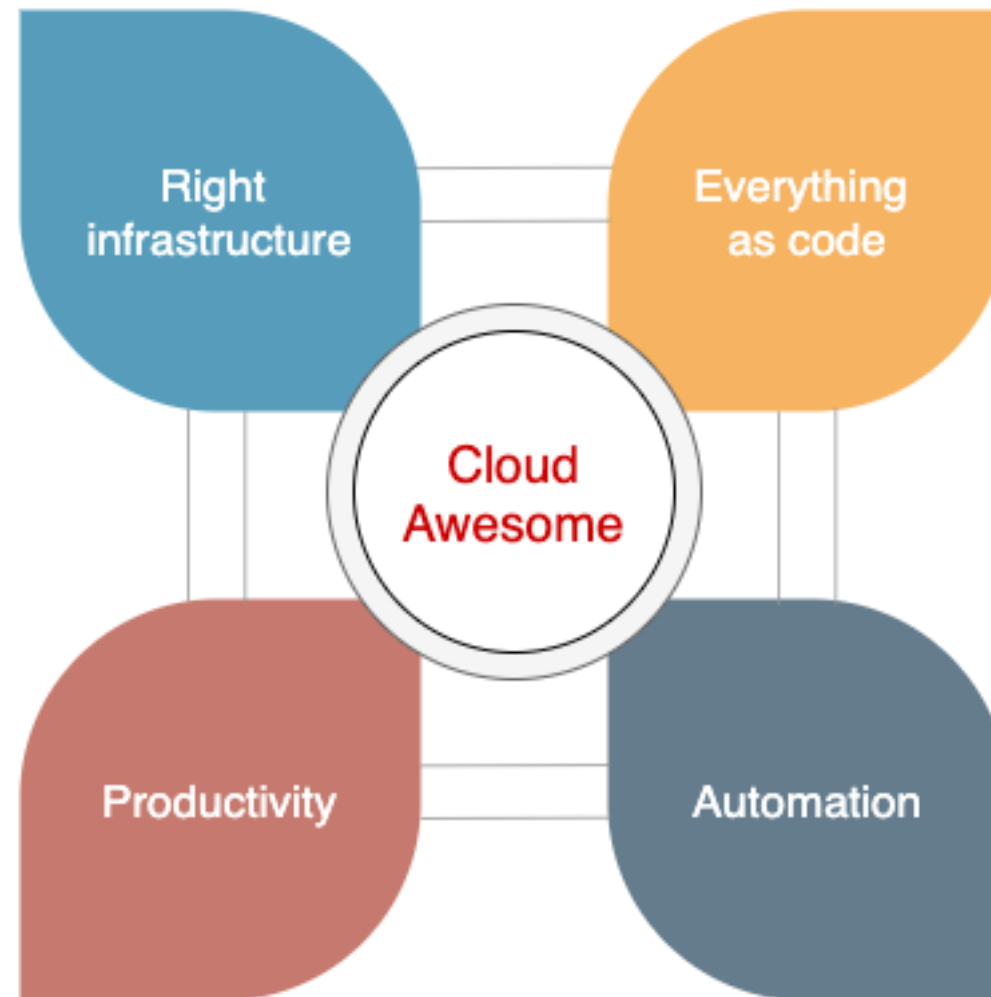
- Removing nodes from cluster

`gcloud container clusters resize`

- Destroying the cluster

`Terraform destroy`

Key take aways



Questions ?



Thanks to CloudBees & all the conference sponsors

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Appendix

Photos

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-  Photo by [Yancy Min](#) on [Unsplash](#)