

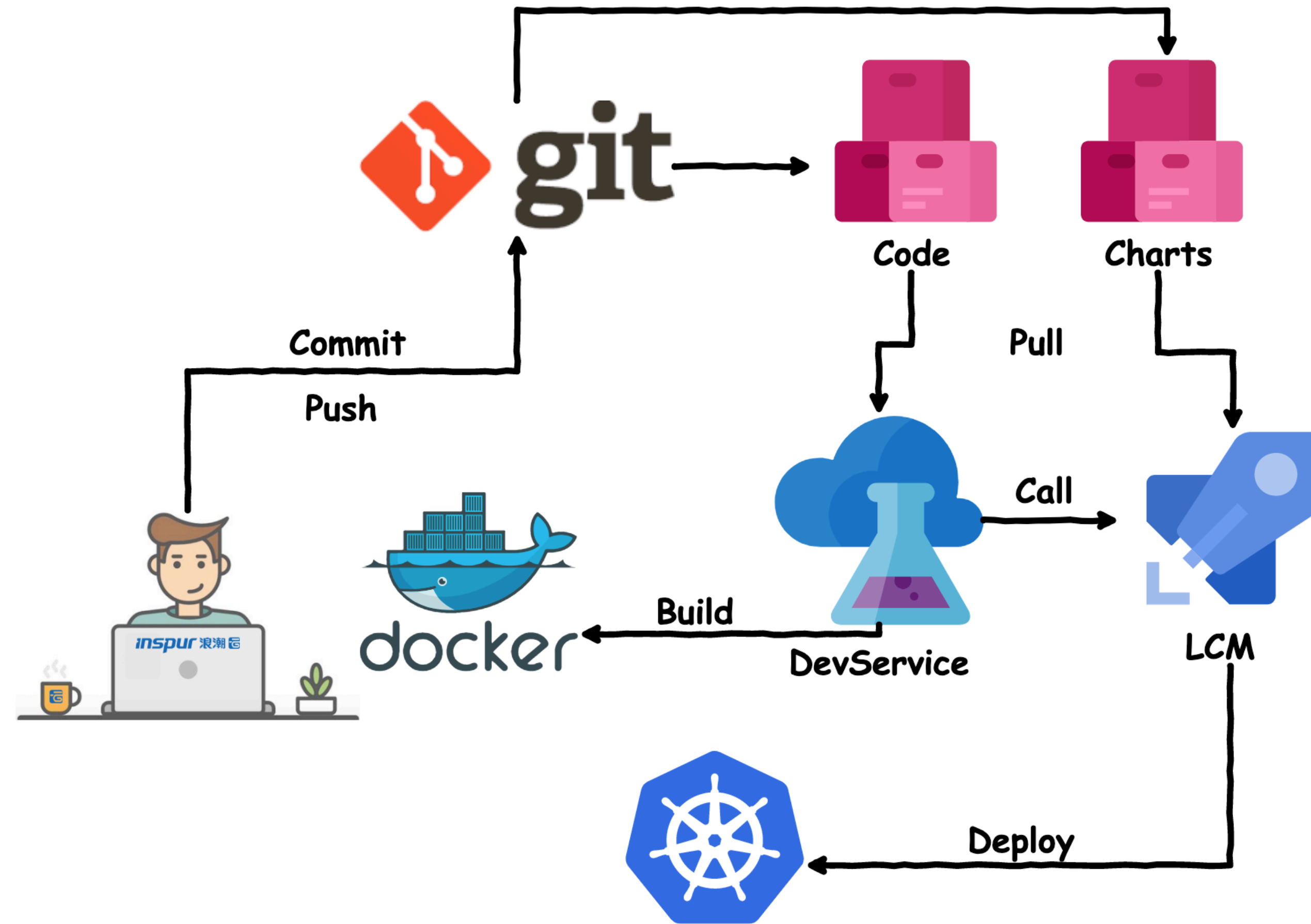
GitOps

INSPUR's 400+ Cloud Native Applications GitOps Practice

GitOps

Git significance

- GitOps is a continuous delivery method. Its core idea is to store the declarative infrastructure and applications of the application system in the Git repository.
- By applying GitOps best practices, the infrastructure and application code of the application system have "truth sources"



Declarative container choreography

Helm Chats Manage By Git

```
67 containers:
68 - image: {{ .Values.global.registry }}/{{ .Values.image.cicdApi.name }}
69   imagePullPolicy: {{ .Values.image.pullPolicy }}
70   readinessProbe:
71     failureThreshold: 3
72     httpGet:
73       path: /cicd/core/v1/home
74       port: 8080
75       scheme: HTTP
76   initialDelaySeconds: 20
77   periodSeconds: 20
78   successThreshold: 1
79   timeoutSeconds: 1
80   livenessProbe:
81     failureThreshold: 3
82     httpGet:
83       path: /cicd/core/v1/home
84       port: 8080
85       scheme: HTTP
86   initialDelaySeconds: 120
87   periodSeconds: 60
88   successThreshold: 1
89   timeoutSeconds: 1
90   name: cicd-api
91   ports:
92   - containerPort: 8080
93     protocol: TCP
94   command: [
```

- As a cloud native tool, kubernetes can regard its "declarativeness" as "code". Declaration means that the configuration is composed of a set of facts rather than a set of instructions.
- By using git library, it is easier to deploy the application to kubernetes and roll back the version. More importantly, when a disaster occurs, the infrastructure of the cluster can be reliably and quickly recovered from the Git library

Basic principles of GitOps

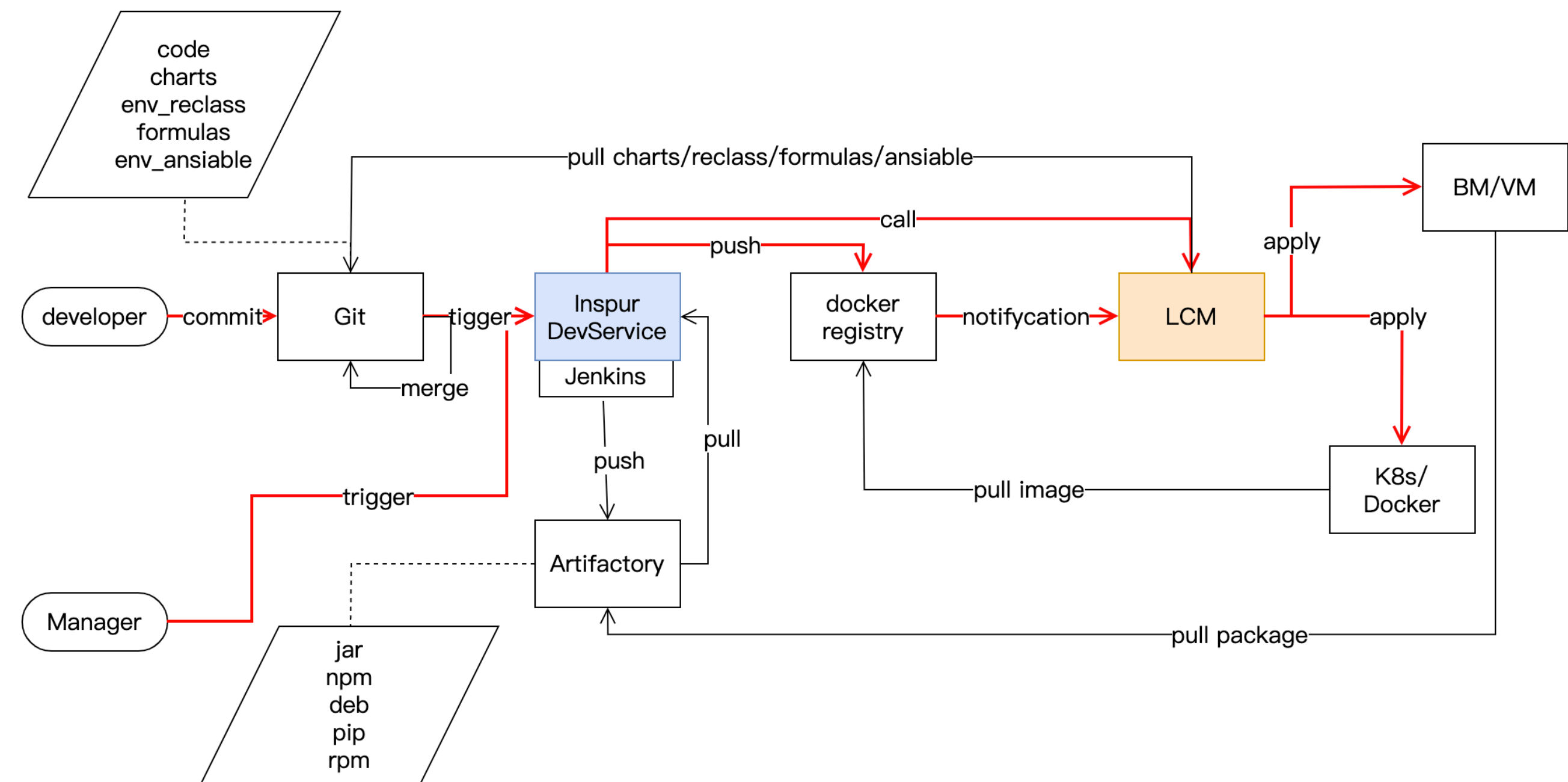
Code of conduct

- Anything that can be described must be stored in the *Git* library
- `Kubectl` should not be used directly
- Calling the Kubernetes *API* interface should follow Operator mode

Life Cycle Manager



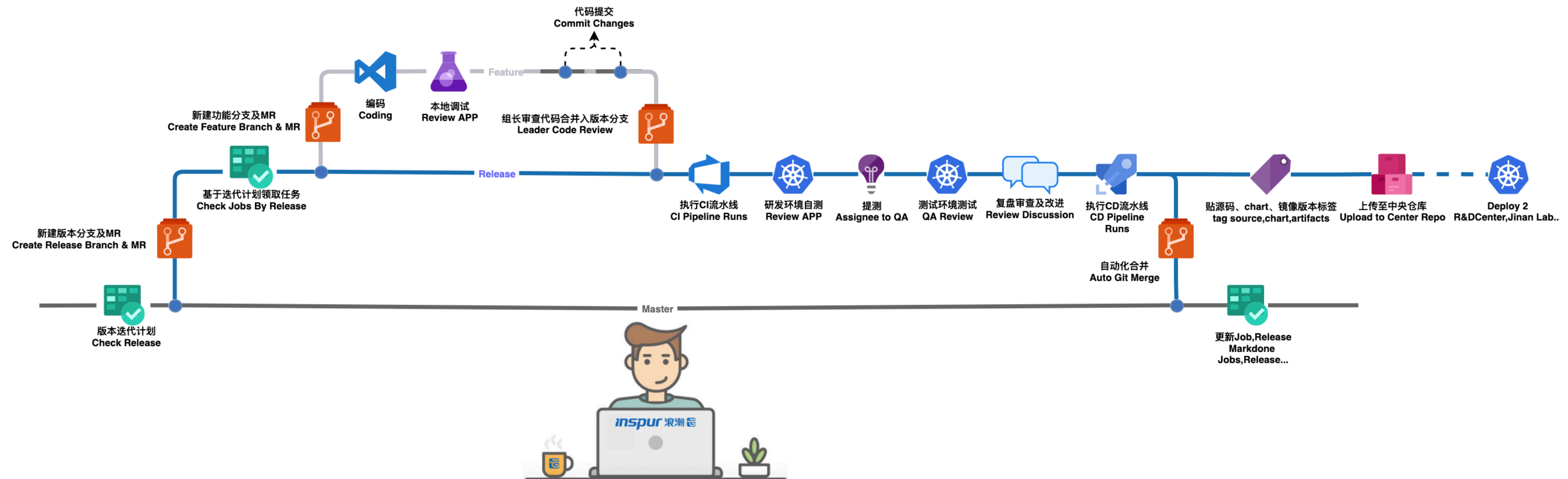
- Inspur Cloud, based on GitOps concepts, has developed a deployment component called LCM to bond the connection between CI and CD in the pipeline
- Code-based facilities enable automated deployment, automated updates, automated upgrades, and automated rollback of cloud environments and upper applications through LCM workflows.



Pipeline

Inspur Cloud DevService

- Inspur cloud software development service provides developers with Devops related cloud services, realizing the whole process of R & D tool support and one-stop service from "development → testing → release → operation and maintenance".
- The service is on the go, realizing code hosting, code quality control, pipeline management, code compilation, image construction, application deployment, testing, publishing and other functions in the cloud anytime and anywhere. It is convenient for developers to build and deliver products quickly and reliably, closely linked with the development and operation and maintenance work.





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Pipeline Name

Basic Info

Process Configuration

Advanced Configuration

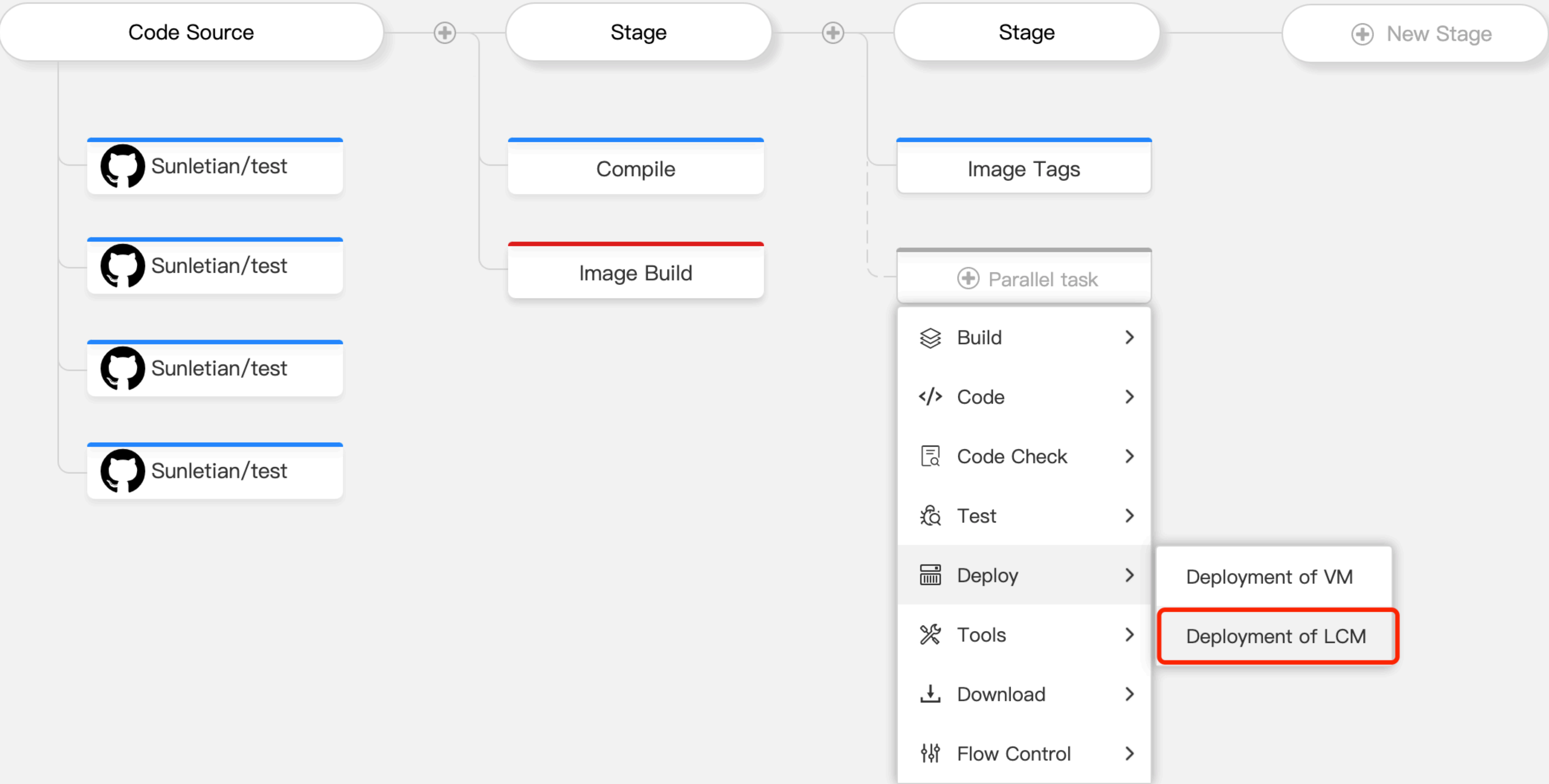
Notification

Save

Graphic Editor

JenkinsFile

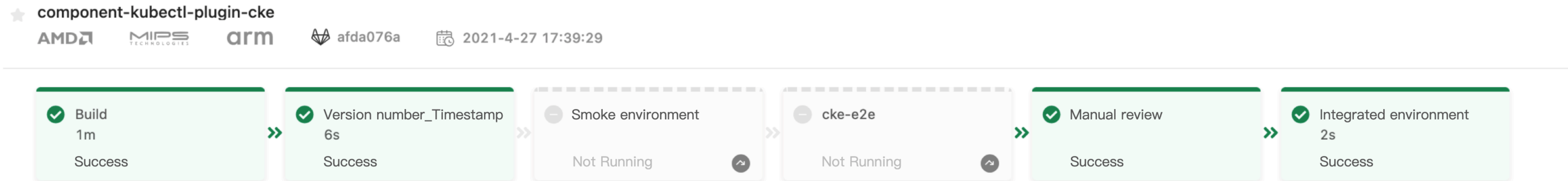
Environment Variable



GitOps Practice

400+ Cloud Native Applications GitOps Practice

- With the deployment of LCM, Inspur Cloud enables continuous integration and deployment of over 400 micro-service applications. Ensure average daily production environment pushed more than 2.5 times



Celebrate the 2nd Anniversary of CDF

As CNCF Gold Member



- Inspur has been paying close attention to the development of CDF, actively participating in the community contribution of CDF, and hoping to become a CDF incubation project one day.
- “By enhancing our focus on cloud, data and AI driven applications, we’re working to create more dynamic platforms based on ecosystems between customers, businesses and governments, where data can be shared to benefit all,” said Max Zhang, vice president of Inspur. “Our increased engagement with CNCF will accelerate our work with the global community to further collaboration around data, and work with developers for rapid innovation”.

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