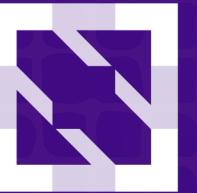




KubeCon



CloudNativeCon



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New Helm Chart Installation Experience with Visual and Repeatable approach

Steven Zou/邹佳 @ VMware
2019/06/24



Who am I?



Steven Zou / 邹佳

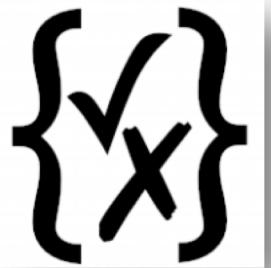
- Staff engineer @ VMware R&D center
- Core maintainer of open source project Harbor
- Focus on cloud computing, container etc.

Challenges & Motivations

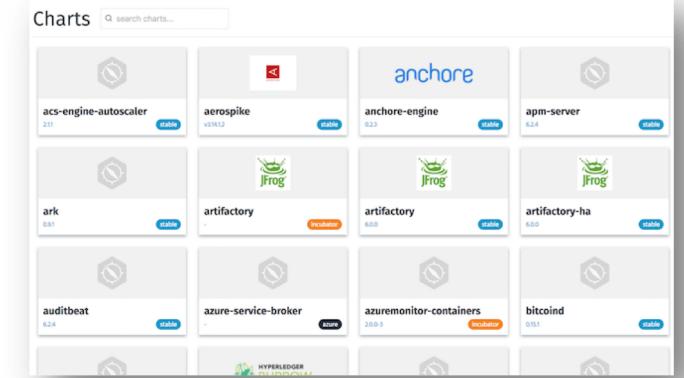
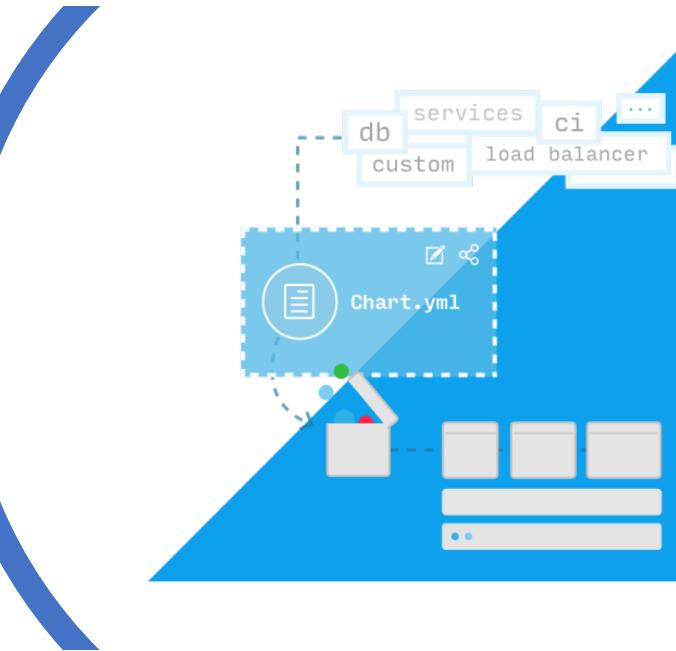
```
helm install --name kubecon2019 \
--set demo.core.resources.requests.cpu="500m" \
--set demo.core.resources.limits.cpu="2" \
--set demo.core.resources.requests.memory="1Gi" \
--set demo.core.resources.limits.memory="4Gi" \
--set demo.core.javaOpts.xms="1g" \
--set demo.core.javaOpts.xmx="4g" \
--set demo.node.resources.requests.cpu="500m" \
--set demo.node.resources.limits.cpu="2" \
--set demo.node.resources.requests.memory="1Gi" \
--set demo.node.resources.limits.memory="4Gi" \
--set demo.node.javaOpts.xms="1g" \
--set demo.node.javaOpts.xmx="4g" \
--set postgresql.resources.requests.cpu="200m" \
--set postgresql.resources.limits.cpu="1" \
--set postgresql.resources.requests.memory="500Mi" \
--set postgresql.resources.limits.memory="1Gi" \
--set nginx.resources.requests.cpu="100m" \
--set nginx.resources.limits.cpu="250m" \
--set nginx.resources.requests.memory="250Mi" \
--set nginx.resources.limits.memory="500Mi" \
demo/kubecon2019
```

--set / -f

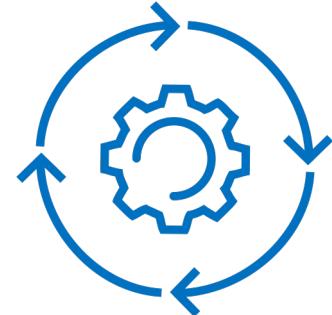
Deployment Settings



No Value Schema for validation

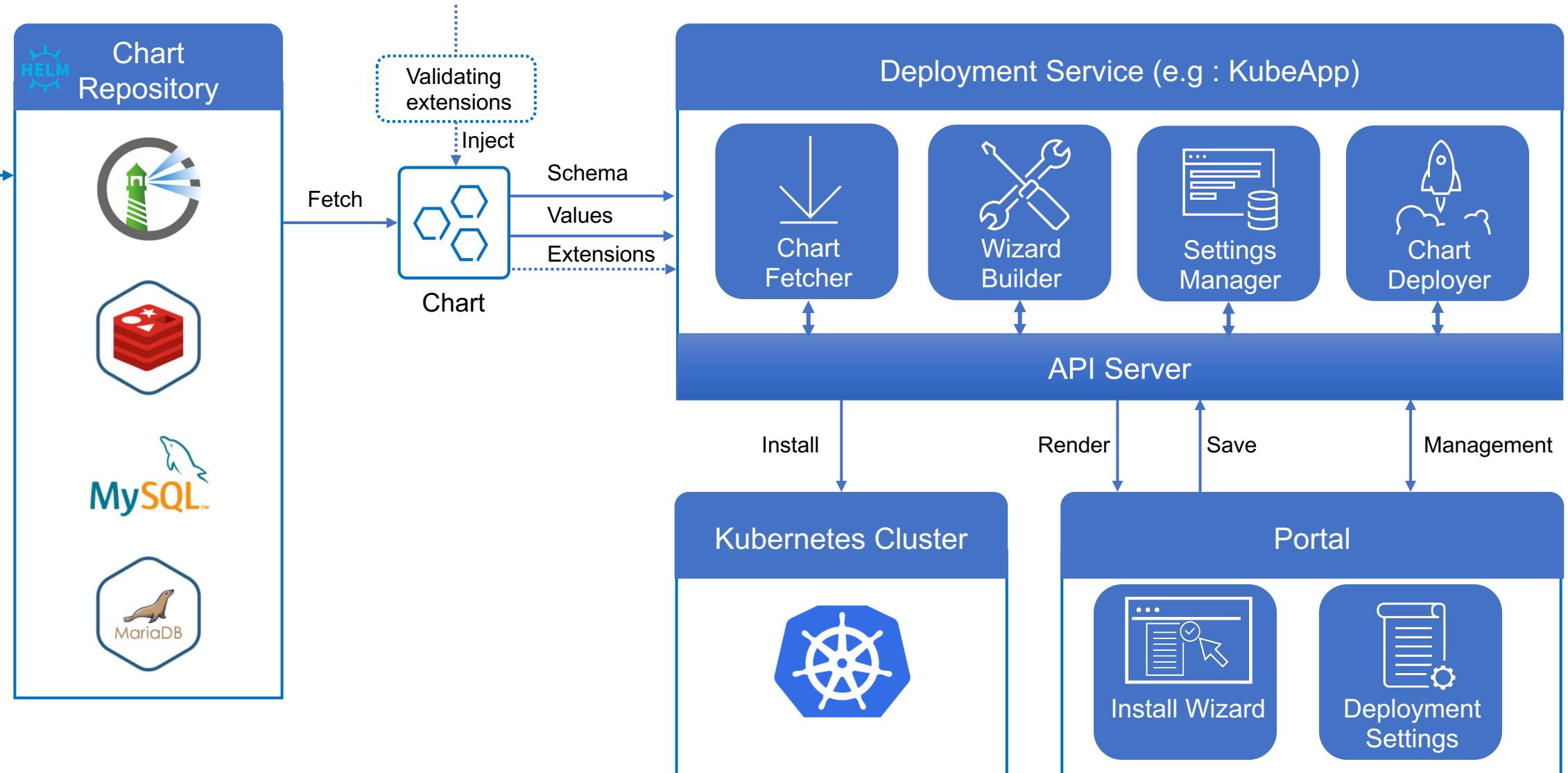


No good and unified UE for installing



Custom settings not repeatable

Main Idea



Settings Applied via Visual Wizard

☰ Install kubecon/demo-2019

General
Global
Storage
Ingress
Database
Resource
Env

Storage

S3

Enabled: ON

Region: us-east-1

Bucket: Bucket name The bucket name is required

Access key: Access key

Access Secret: Access secret

► Optional Settings:

Azure

Enabled: OFF

Container: Container

Account.name: Accountname

Account.key: Accountkey

► Optional Settings:

Previous Next Cancel

Chart Deployer V1.0.0-build.2019

Repeatable deployment config

☰ Visual Deployment Service

Search...

Settings 4

Serial Number

Installing Chart

201906161200	demo.goharbor.io/chartrepo/library/harbor:1
201906241640	hub.helm.sh/library/redis:5.0
201906231001	hub.helm.sh/library/mysql:6.0
201906062310	hub.kubeapps.com/tomcat:0.2.0

Chart Deployer V1.0.0-build.2019

S3

Enabled:

Region: us-east-1

Bucket: my bucket

Access key: AU876XK==01XNM+09

Access Secret: *****

Optional Settings:

Ingress

General

Global

Storage

Ingress

Database

Resource

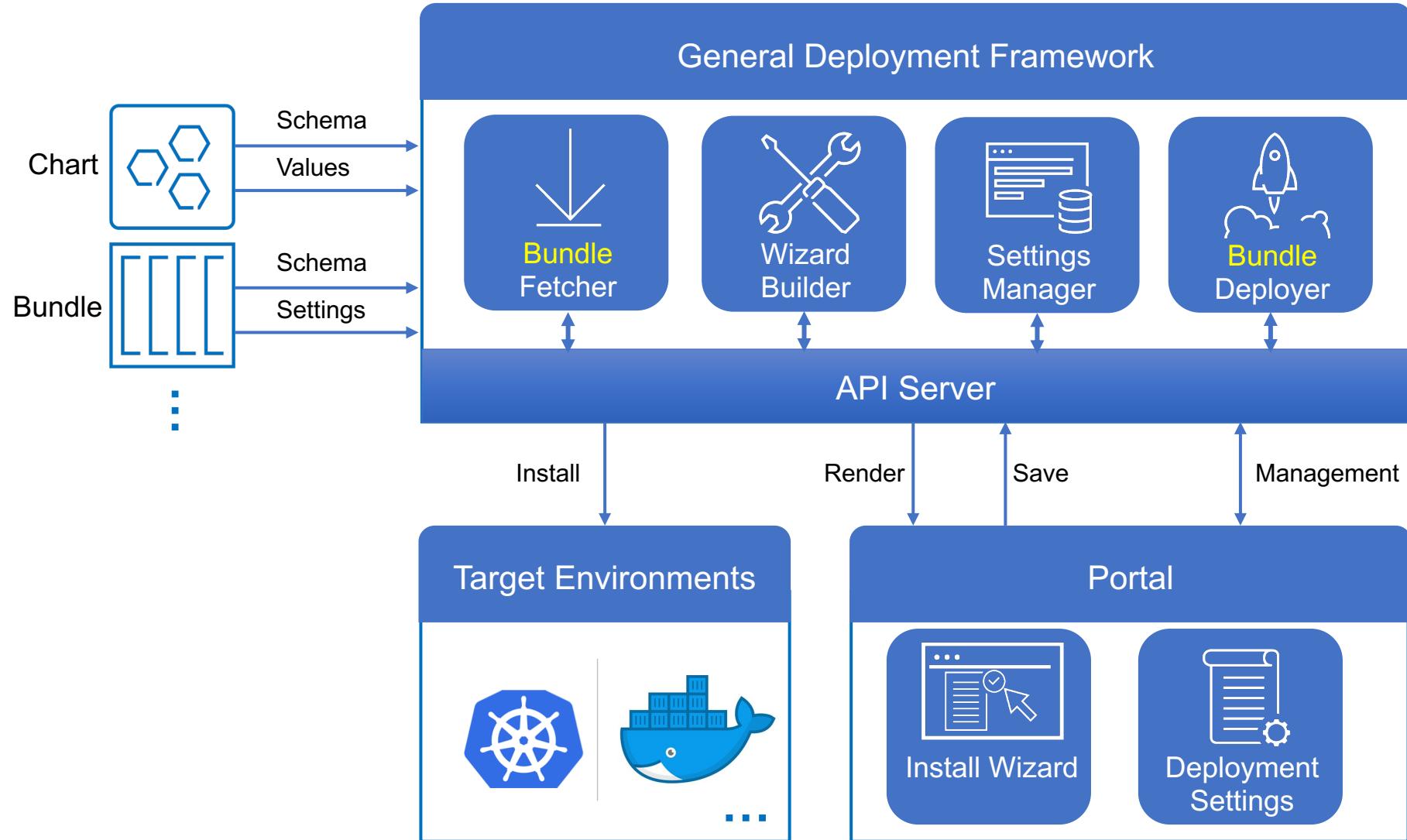
Env



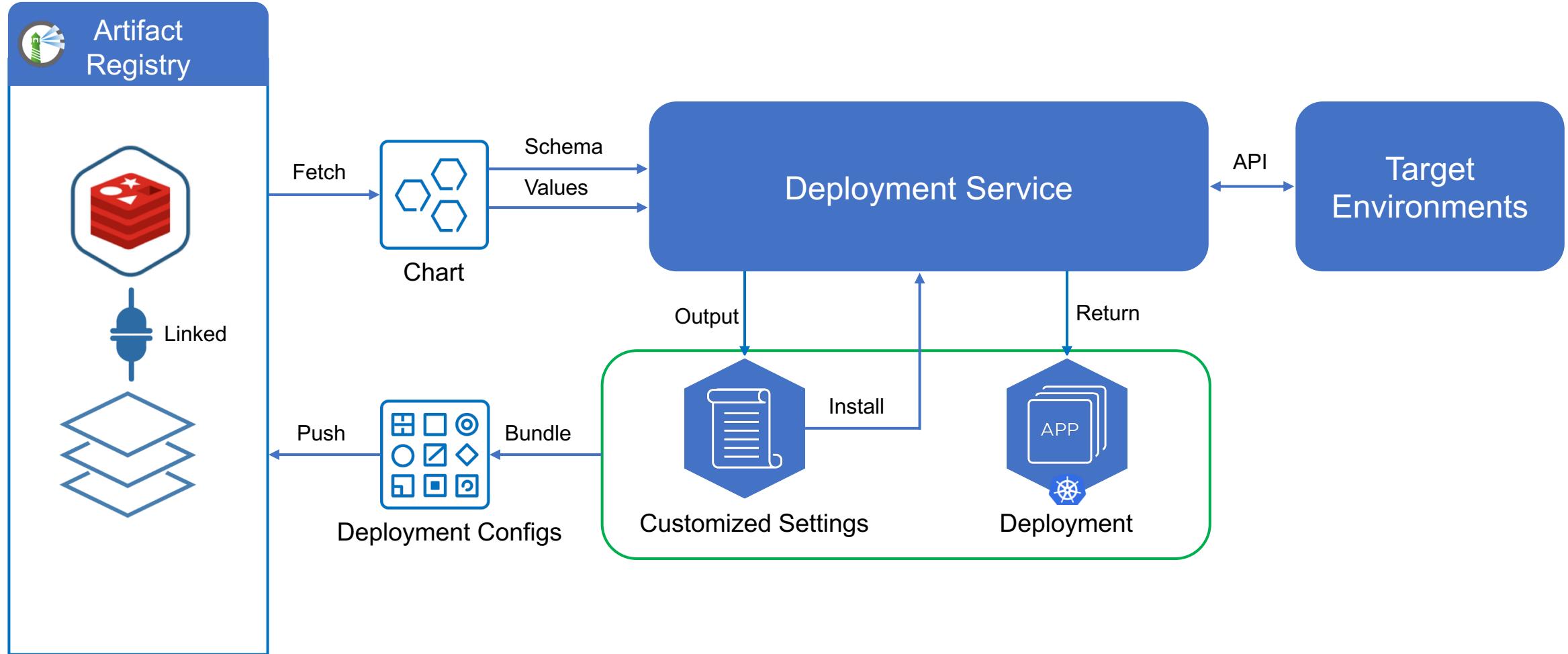
Future Work

- More discussions with related communities to get more feedback
- Deliver a prototype
- Looking for opportunity of doing collaborations with application catalog projects like KubeApp to deliver it

More Thoughts – General Deployment Framework



More Thoughts – Link Settings with The Installed Artifact

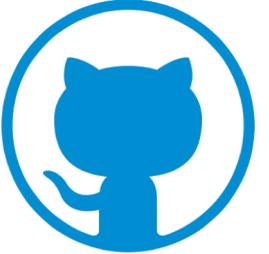


Discussion Welcomed



Email

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Wechat

loneghost1982



Twitter

loneghost1982