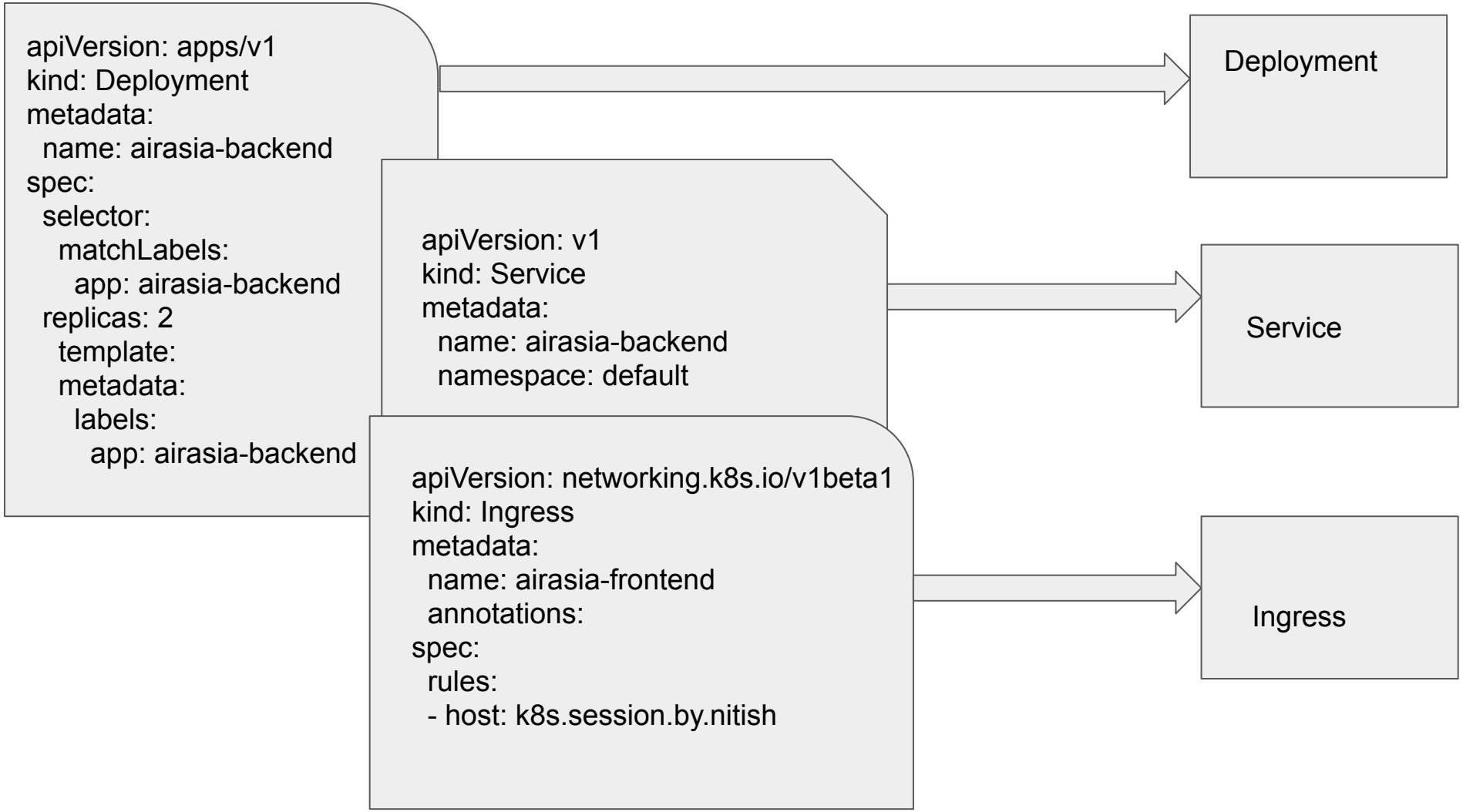

HELM
The
package manager
for Kubernetes

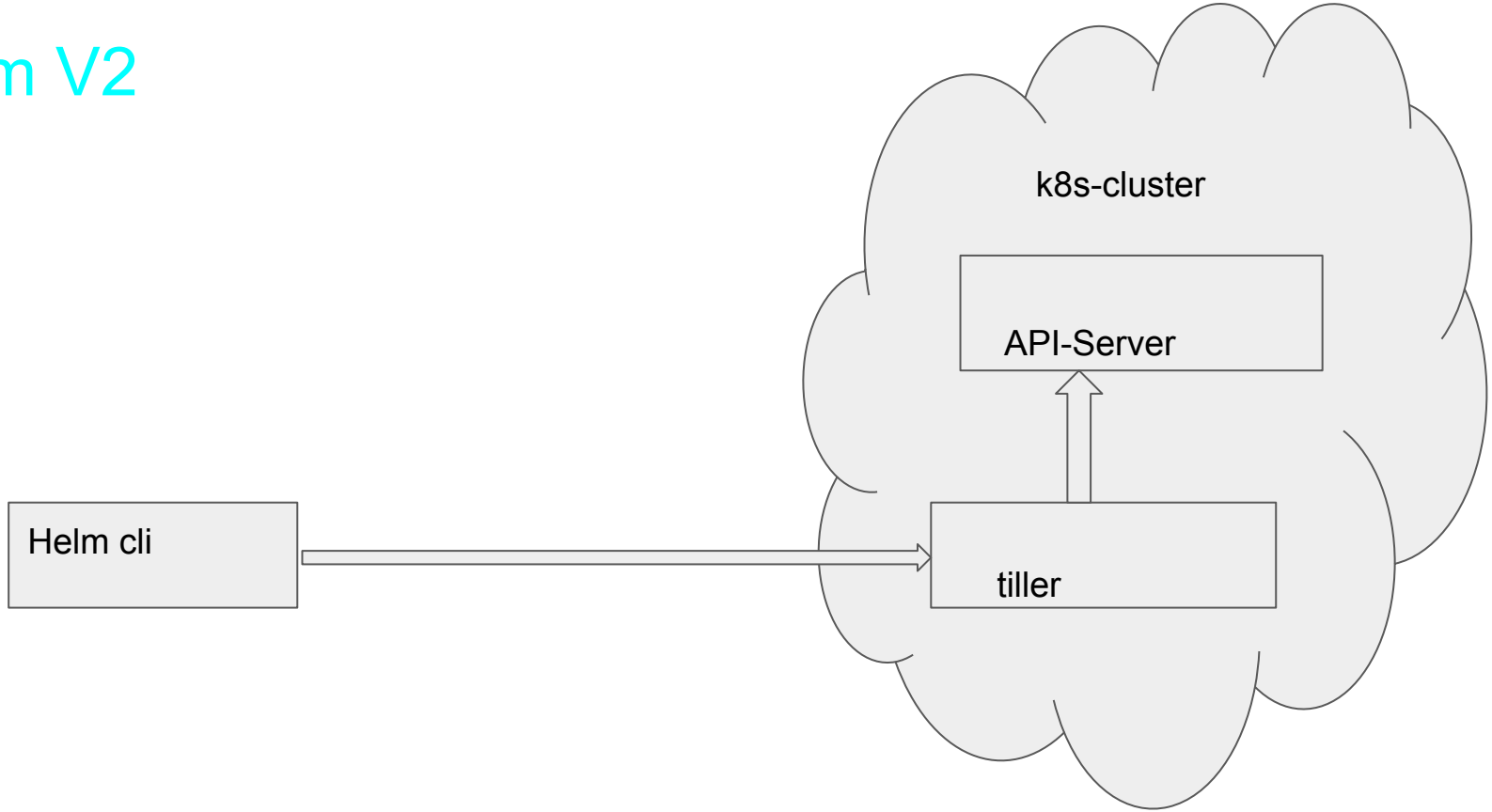
How we works with k8s?


apiVersion: apps/v1
kind: Deployment
metadata:
name: airasia-backend
spec:
selector:
matchLabels:
app: airasia-backend
replicas: 2
template:
metadata:
labels:
app: airasia-backend
Deployment
apiVersion: v1
kind: Service
metadata:
name: airasia-backend
namespace: default
Service
apiVersion: networking.k8s.io/v1beta1
kind: Ingress
metadata:
name: airasia-frontend
annotations:
spec:
rules:
- host: k8s.session.by.nitish
Ingress

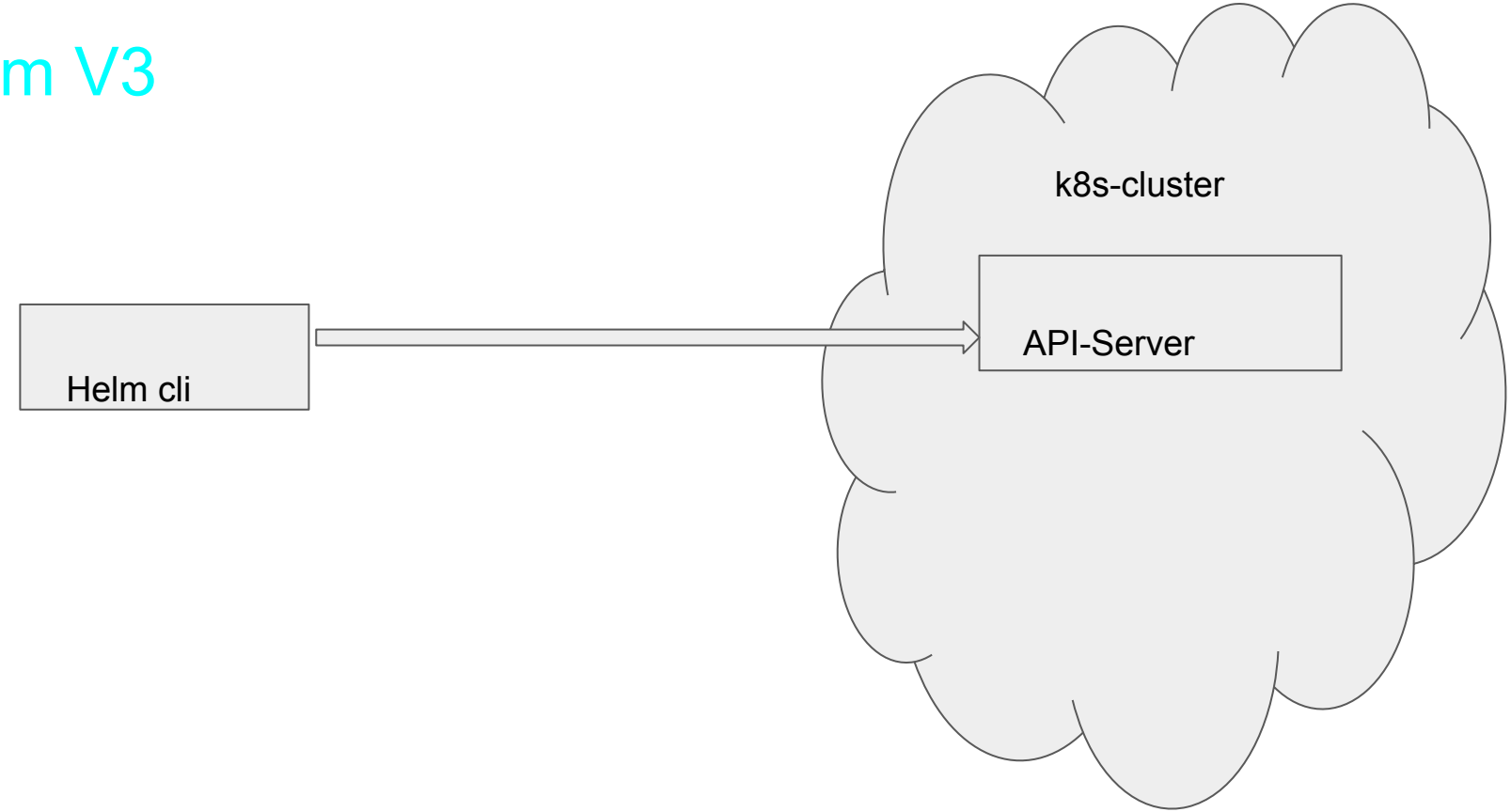
Helm can:

- Install software.
- Automatically install software dependencies.
- Upgrade software.
- Configure software deployments.
- Fetch software packages from repositories.

Helm V2



Helm V3



- Helm uses a packaging format called *charts*. A chart is a collection of files that describe a related set of Kubernetes resources.
- Charts are created as files laid out in a particular directory tree. They can be packaged into versioned archives to be deployed.
- If you want to download and look at the files for a published chart, without installing it, you can do so with `helm pull chartrepo/chartname`.
- A chart is organized as a collection of files inside of a directory.

```
wordpress/
  Chart.yaml          # A YAML file containing information about the chart
  LICENSE             # OPTIONAL: A plain text file containing the license for the chart
  README.md           # OPTIONAL: A human-readable README file
  values.yaml         # The default configuration values for this chart
  values.schema.json  # OPTIONAL: A JSON Schema for imposing a structure on the
values.yaml file
  charts/             # A directory containing any charts upon which this chart depends.
  crds/               # Custom Resource Definitions
  templates/          # A directory of templates that, when combined with values,
                      # will generate valid Kubernetes manifest files.
  templates/NOTES.txt # OPTIONAL: A plain text file containing short usage notes
```

Helm CMD:

#wget https://get.helm.sh/helm-v3.0.2-linux-amd64.tar.gz
#tar xvf helm-v3.0.2-linux-amd64.tar.gz
#sudo mv linux-amd64/helm /usr/local/bin/
#helm version
#helm repo add stable
https://kubernetes-charts.storage.googleapis.com/
#helm search repo stable
#helm repo update
#helm create test
#helm install --namespace test test .
#helm package test
#helm uninstall test
#helm upgrade test .
#helm install . test --set serviceType=LoadBalancer
#helm status test


THANK
YOU