Day 8 Helm

A Package Manager

--Sachin Vastrad

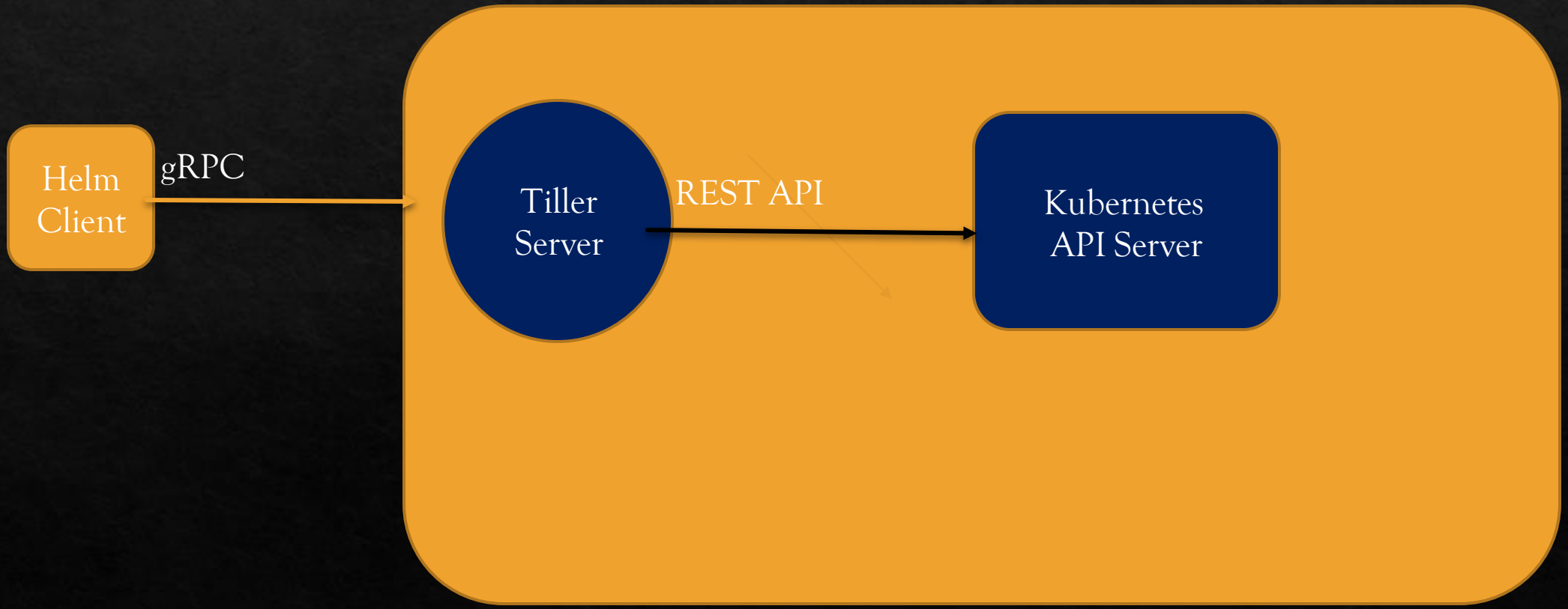
Pain Point of K8

- 1 Micro service
  - Pod
  - Deployment
  - Replication Set
  - Service

Solution : Helm

- Package Manager : yum , apt , npm ,brew
- Create
- Install
- Uninstall
- Upgrade/Rollback
- Delete

How Helm Work



Helm Command

- helm init --upgrade //Install and Upgrade Tiller to current cluster
- helm version //Check the version of Helm installed
- helm repo list //List Helm repositories
- help repo update //Update list of Helm charts from repositories
- helm search //List all installed charts
- helm search foo //search for charts installed
- helm ls
- helm ls --deleted
- helm ls --all

Helm Commands

- helm install --name foo stable/mysql
- helm install --name foo --values config.yaml --timeout 300 --wait stable/mysql
- helm delete --purge foo
- helm get values foo
- helm upgrade --values config.yaml foo stable/mysql
- helm rollback foo 1

Helm Chart

- packaging format called **charts**
- Collection of Resource Definition files
- All information related for deploying an Application

Chart Example

```
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
  requirements.yaml   # OPTIONAL: A YAML file listing dependencies for the chart
  values.yaml         # The default configuration values for this chart
  charts/             # A directory containing any charts upon which this chart depends.
  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
```

Thank You