helm部署

一、helm安装（客户端）

1. 从官网下载最新版本的二进制安装包到本地：https://github.com/kubernetes/helm/releases
2. 解压压缩包

```
$ tar xf helm-v2.12.3-linux-amd64.tar.gz
$ cd linux-amd64/
$ ls
helm  LICENSE  README.md  tiller
$ cp helm /usr/local/bin/
$ helm --help
The Kubernetes package manager

To begin working with Helm, run the 'helm init' command:

 $ helm init

This will install Tiller to your running Kubernetes cluster.
It will also set up any necessary local configuration.

Common actions from this point include


- helm search:    search for charts
- helm fetch:     download a chart to your local directory to view
- helm install:   upload the chart to Kubernetes
- helm list:      list releases of charts
...
...
...
```

二、Helm 服务端安装Tiller

```
###  K8S  socat (yum install -y socat )  ###
E0522 22:22:15.492436 24409 portforward.go:331] an error occurred
forwarding 38398 -> 44134: error forwarding port 44134 to pod
dc6da4ab99ad9c497c0cef1776b9dd18e0a612d507e2746ed63d36ef40f30174, uid :
unable to do port forwarding: socat not found.
Error: cannot connect to Tiller
```

```
#  chart repo
helm init --client-only --stable-repo-url
https://aliacs-app-catalog.oss-cn-hangzhou.aliyuncs.com/charts/
helm repo add incubator
https://aliacs-app-catalog.oss-cn-hangzhou.aliyuncs.com/charts-incubator/
helm repo update
```

```
#
helm init --service-account tiller --upgrade -i
registry.cn-hangzhou.aliyuncs.com/google_containers/tiller:v2.12.2
--stable-repo-url https://kubernetes.oss-cn-hangzhou.aliyuncs.com/charts

# TLShttps://github.com/gjmzj/kubeasz/blob/master/docs/guide/helm.md
helm init --service-account tiller --upgrade -i
registry.cn-hangzhou.aliyuncs.com/google_containers/tiller:v2.12.2
--tiller-tls-cert /etc/kubernetes/ssl/tiller001.pem --tiller-tls-key
/etc/kubernetes/ssl/tiller001-key.pem --tls-ca-cert
/etc/kubernetes/ssl/ca.pem --tiller-namespace kube-system --stable-repo-url
https://kubernetes.oss-cn-hangzhou.aliyuncs.com/charts

helm init --upgrade -i
registry.cn-hangzhou.aliyuncs.com/google_containers/tiller:v2.12.2
--stable-repo-url https://kubernetes.oss-cn-hangzhou.aliyuncs.com/charts
```

三、给 Tiller 授权

```
# tiller pod
kubectl create serviceaccount --namespace kube-system tiller
#
kubectl create clusterrolebinding tiller-cluster-rule
--clusterrole=cluster-admin --serviceaccount=kube-system:tiller


#  Tiller
#  kubectl patch  API
kubectl patch deploy --namespace kube-system tiller-deploy -p
'{"spec":{"template":{"spec":{"serviceAccount":"tiller"}}}}'


#
kubectl get deploy --namespace kube-system tiller-deploy --output yaml |
grep serviceAccount
 serviceAccount: tiller
 serviceAccountName: tiller


helm  version
 Client: &version.Version{SemVer:"v2.12.3",
GitCommit:"eecf22f77df5f65c823aacd2dbd30ae6c65f186e", GitTreeState:"clean"}
 Server: &version.Version{SemVer:"v2.12.2",
GitCommit:"7d2b0c73d734f6586ed222a567c5d103fed435be", GitTreeState:"clean"}
```