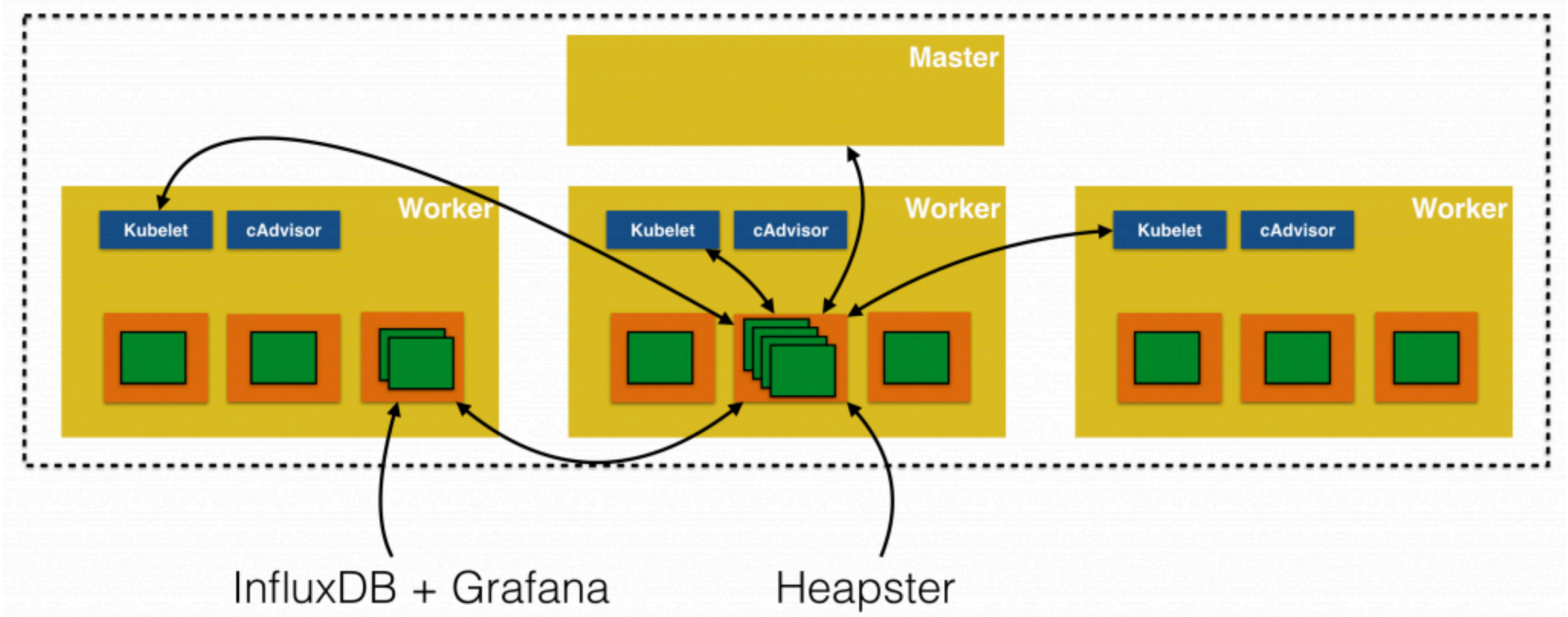


一、监控架构：heapster + grafana + influxdb



如上图，heapster通过向集群中的每个节点的kubelet发送请求来获取监控数据，整理后发送到InfluxDB,Grafana从InfluxDB中获取监控数据，并且在网页端进行渲染。

原先选择安装的是heapster套件的master分支，安装后发现InfluxDB的连接配置一直出现问题，无法联通，经过查找发现目前的master版本在新版本的kuberenetes使用上连InfluxDB会存在问题，所以目前使用的是release-1.3版本

二、安装方法

<https://github.com/kubernetes/heapster/tree/release-1.3/deploy/kube-config/influxdb> 将这个网址下的所有文件都download下来，一共有6个grafana-deployment.yaml, grafana-service.yaml, heapster-deployment.yaml, heapster-service.yaml, influxdb-deployment.yaml, influxdb-service.yaml

因为要对外暴露端口，所以需要修改grafana-service.yaml文件

将

```
# type: NodePort
```

去掉注释，变为

```
type: NodePort
```

然后运行命令

```
kubectl create -f grafana-deployment.yaml
kubectl create -f grafana-service.yaml
kubectl create -f heapster-deployment.yaml
kubectl create -f heapster-service.yaml
kubectl create -f influxdb-deployment.yaml
kubectl create -f influxdb-service.yaml
```

三、安装后检验，如果看到红字部分，证明安装运行正常

```
# kubectl cluster-info
Kubernetes master is running at https://10.132.41.234:6443
Heapster is running at https://10.132.41.234:6443/api/v1/namespaces/kube-system/services/heapster/proxy
KubeDNS is running at https://10.132.41.234:6443/api/v1/namespaces/kube-system/services/kube-dns/proxy
monitoring-grafana is running at https://10.132.41.234:6443/api/v1/namespaces/kube-system/services/monitoring-grafana/proxy
monitoring-influxdb is running at https://10.132.41.234:6443/api/v1/namespaces/kube-system/services/monitoring-influxdb/proxy
```

四、通过以下网址访问grafana

```
# echo "http://"$(grep $(kubectl get pods --all-namespaces -o wide|awk '/grafana/{print $NF}') /etc/hosts | awk '{print $1}'):$(kubectl describe service/monitoring-grafana --namespace=kube-system |grep -e '^NodePort'|grep -oP '\d+')"
```