kubernetes监控: Prometheus + Grafana

参考: http://blog.51cto.com/kaliarch/2160569

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注意:

- 1、确保kubernetes可以正常运行
- 2、至少要有一个node节点

服务安装的yaml文件:



Grafana监控模板:



需要的镜像包:

```
registry.odc.sunline.cn/monitor/node-exporter
registry.odc.sunline.cn/monitor/prometheus:v2.0.0
registry.odc.sunline.cn/monitor/grafana:4.2.0
```

1、master/node节点环境部署

```
master
gityaml
yaml

# git clone git@gitlab.odc.sunline.cn:aps/cfg/k8s-cfg.git
```

2、采用daemonset方式部署node-exporter组件

```
# kubectl create -f node-exporter.yaml
```

3、部署prometheus组件

```
# kubectl create -f k8s-prometheus-grafana/prometheus/rbac-setup.yaml
# kubectl create -f k8s-prometheus-grafana/prometheus/configmap.yaml
# kubectl create -f
k8s-prometheus-grafana/prometheus/prometheus.deploy.yml
# kubectl create -f k8s-prometheus-grafana/prometheus/prometheus.svc.yml
```

4、部署grafana组件

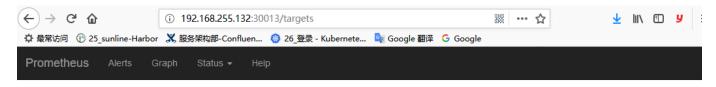
5、验证

kubectl get	svc -n		OLIIOMED TO		DODE (C)	
NAME AGE		TYPE	CLUSTER-IP	EXTERNAL-IP	PORT(S)	
grafana		NodePort	10.110.194.193	<none></none>		
3000:32185/TC	P 6h	## grafana				
kube-dns		ClusterIP	10.96.0.10	<none></none>		
53/UDP,53/TCP	9h		10 100 50 122			
kubernetes-da: 443:30080/TCP		NodePort	10.100.79.133	<none></none>		
node-exporter		NodePort	10.108.80.102	<none></none>		
9100:31672/TC		## node-exp		(110116)		
prometheus NodePort 10.100.166.65				<none></none>		
9090:30013/TC	₽ 6	## prometheu	S			
# kubectl get podall-namespaces				DD3.D11	O	
NAMESPACE NAME RESTARTS AGE				READY	STATUS	
kube-system etcd-master01				1/1	Running	
0 9h				1/1	Rainiing	
kube-system grafana-core-f796895df-cswsh				1/1	Running	0
1h ## grafana pod						
kube-system heapster-568f8f47dc-8mk7z				1/1	Running	0
8h						
kube-system kube-apiserver-master01 9h				1/1	Running	0
en kube-system	kubo-go	ntroller-man	ager-master01	1/1	Running	0
on Sube-system	Kube-cc	oncrotter - man	ager-mascerur	1/1	Ruilling	U
kube-system	kube-dr	ıs-79f58c65fb	-q776l	3/3	Running	С
9h			1	-,-	5	
kube-system	kube-flannel-ds-pdq6m			1/1	Running	3
8h						
kube-system kube-flannel-ds-wpfrt				1/1	Running	C
9h				7 /7		
kube-system kube-proxy-6drgs 1 8h				1/1	Running	
rube-system		oxy-k8mdd		1/1	Running	
) 9h		Oxy Kolliaa		1/1	Rainiing	
kube-system	kube-sc	heduler-mast	er01	1/1	Running	С
9h						
kube-system kubernetes-dashboard-65c7b85b8d-2zg2c				1/1	Running	0
9h						
kube-system node-exporter-qxpcr				1/1	Running	
0 6h ## node-exporter pod				1 /1	.	_
<pre>kube-system prometheus-6cf474d5f8-hxzvs 3h ## prometheus pod</pre>				1/1	Running	0

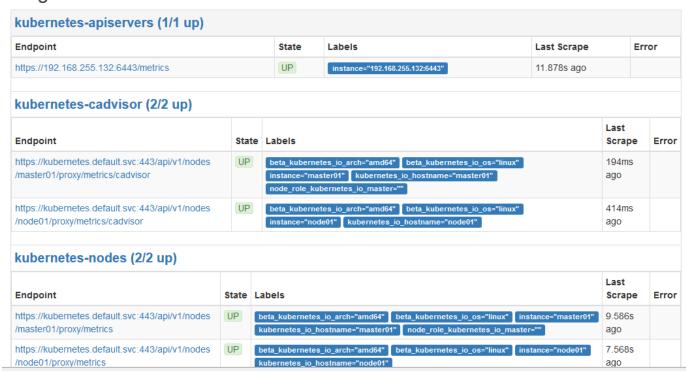
6、在web页面查看服务是否正常

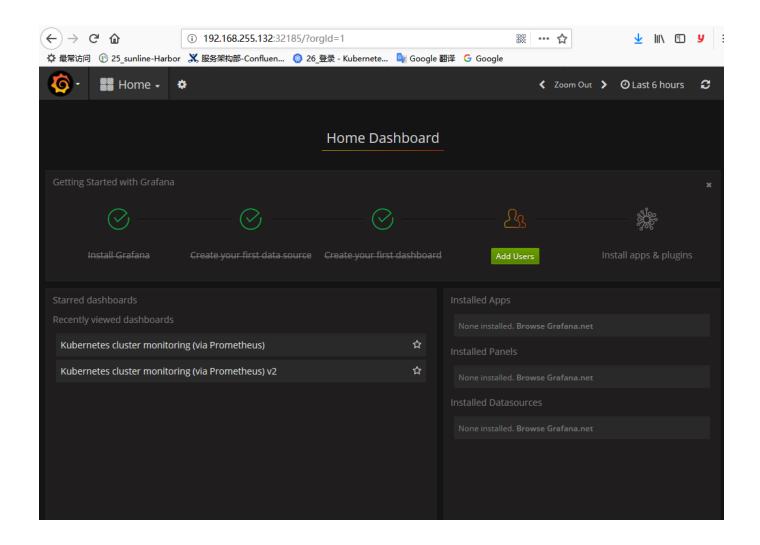
prometheus访问端口30013(可在yam的配置文件中修改: prometheus. svc. yml)

grafana端口为32185(yaml配置中未指定,随机分配的一个端口,可用命令 查看分配 的端口: kubectl get svc -n kube-system)



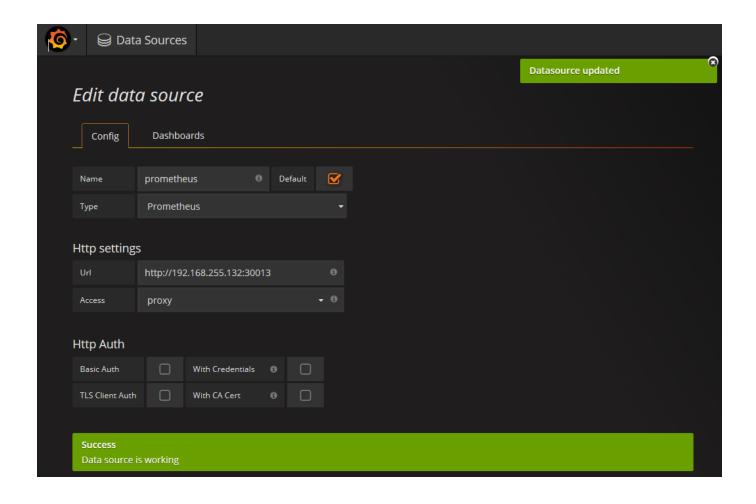
Targets





7、配置Grafana

url地址: prometheus的访问地址: 我这里配置的外网访问的地址, 理论上是可以配置集群IP和端口



8、导入模板,查看监控数据

