

k8s 監控

集群資源監控

1. 監控指標

- 集群監控
 - 節點資源利用率
 - 節點數量
 - 運行的 Pods
- Pod 監控
 - 容器指標
 - 應用程序

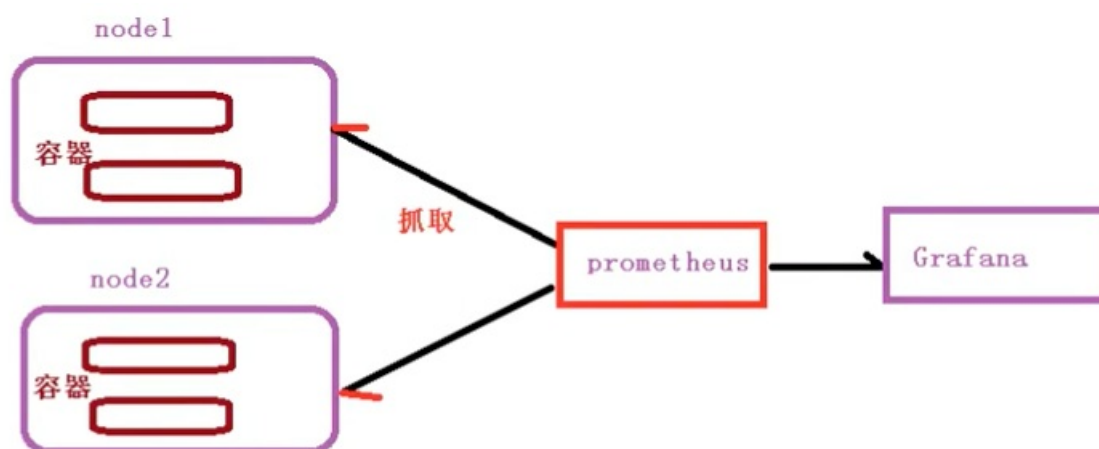
2. 監控平台搭建方案：Prometheus + Grafana

(1) Prometheus

- 開源的
- 具備監控、報警、數據庫功能
- 以 HTTP 協議定期抓取被監控組件的狀態
- 不需要複雜的集成過程，使用 HTTP 接口接入即可

(2) Grafana

- 開源的數據分析和可視化工具
- 支援多種數據源



```
# rbac-setup.yaml
apiGroups: ["*"]
resources:
- nodes
- nodes/proxy
- services
- endpoints
- pods
verbs: ["get", "list", "watch"]
---
apiGroups:
- extensions
resources:
- ingresses
verbs: ["get", "list", "watch"]
nonResourceURLs: ["/metrics"]
verbs: ["get"]
---
```

```
apiVersion: v1
kind: ServiceAccount
metadata:
  name: prometheus
  namespace: kube-system
---
apiVersion: rbac.authorization.k8s.io/v1
kind: ClusterRoleBinding
metadata:
  name: prometheus
roleRef:
  apiGroup: rbac.authorization.k8s.io
  kind: ClusterRole
  name: prometheus
subjects:
- kind: ServiceAccount
  name: prometheus
  namespace: kube-system
```

🕒 修訂版本 #4

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