# Configuring App Cluster cAdvisor target in the Monitoring Cluster

### **Creating a Service Account with necessary privileges (In App Cluster)**

(So we can authorize scrape requests made by Prometheus in the Monitoring Cluster)

Create Service Account

kubectl create serviceaccount prometheus -n monitoring

kubectl get serviceaccounts prometheus -o yaml -n monitoring

```
[simuser@blp13509313 ~]$ kubectl get serviceaccounts prometheus -o yaml -n monitoring
apiVersion: v1
kind: ServiceAccount
metadata:
    creationTimestamp: "2022-08-17T16:48:13Z"
    name: prometheus
    namespace: monitoring
    resourceVersion: "7925423"
    uid: 9a4e7e90-dd4d-49e4-b0d6-81a72672742c
secrets:
    name: prometheus-token-g74pv
```

> Get the bearer token associated with that secret

kubectl describe secret prometheus-token-g74pv -n monitoring

```
[simuser@blp13509313 ~]$ kubectl describe secret prometheus-token-g74pv -n monitoring
             prometheus-token-g74pv
llame:
Namespace:
             monitoring
Labels:
             <none>
Annotations: kubernetes.io/service-account.name: prometheus
              kubernetes.io/service-account.uid: 9a4e7e90-dd4d-49e4-b0d6-81a72672742c
Type: kubernetes.io/service-account-token
Data
====
ca.crt:
           1066 bytes
namespace: 10 bytes
            eyJhbGciOiJSUzI1NiIsImtpZCI6Ik1xY1NPdzBpLVYtdHhCOURRR2RzZDIyVWlqeUdRbUJyQWJ:
YW1lc3BhY2UiOiJtb25pdG9yaW5nIiwia3ViZXJuZXRlcy5pby9zZXJ2aWNlYWNjb3VudC9zZWNyZXQubmFtZSI(
icHJvbWV0aGV1cyIsImt1YmVybmV0ZXMuaW8vc2VydmljZWFjY291bnQvc2VydmljZS1hY2NvdW50LnVpZCI6Ij.
Byb21ldGhldXMifQ.jy0cYnljHyJHqp0dLDBsHz3iY2zi2OJmj5_oPBPf6kSFq7SerIlUF_r1Qky4q0jJrU6QrXF
Ha23ssdcq3dJncsBPX72jsE-Pm3HjuPYFIPa8SGm_7EBze9BKtz79Q0Y5O1cowxhrN1sWIUggJP9UYRiL7uZzol
```

Create a ClusterRoleBinding to assign the service account a role with necessary privileges

kubectl create clusterrolebinding prometheus-admin --clusterrole cluster-admin --user
system:serviceaccount:monitoring:prometheus --serviceaccount=monitoring:prometheus -namespace=monitoring

kubectl get clusterrolebinding prometheus-admin -o wide

```
[simuser@blp13509313 ~]$ kubectl get clusterrolebinding prometheus-admin -o wide

NAME ROLE AGE USERS SERVICEACCOUNTS

prometheus-admin ClusterRole/cluster-admin 21h system:serviceaccount:monitoring:prometheus monitoring/prometheus
```

Get the Kubernetes Endpoint

```
[simuser@blp13509313 ~]$ kubectl get ep

NAME ENDPOINTS AGE
kubernetes 10.13.55.70:61149,10.55.130.193:61149,10.55.130.215:61149 15d
[simuser@blp13509313 ~]$
```

## **Configuring Prometheus (in Monitoring Cluster)**

Add a bearer token file and the scrape targets yaml file.

```
## Prometheus server ConfigMap entries
                                                 Add these 2 files under "serverFiles". Files mentioned
##
                                                 here will be available to the Prometheus server pods in
serverFiles:
                                                 /etc/config/ path on the working directory.
app-cluster-token: eyJhbGci0iJSUzI1NiIs
                                                           Bearer Token of the service account we
                                                                 created in the App Cluster
app-cluster-node-targets.yml:
   - targets: ['10.55.130.193:61149']
                                                        Kubernetes Endpoint of the App Cluster
      meta node name : blp13509313
    - targets: ['10.55.130.193:61149']
                                                          Node Name Labels (For relabel configs)
          meta_node_name : blp13509354
```

#### serverFiles:

```
app-cluster-token: <token>
app-cluster-node-targets.yml:
   - targets: ['<host>']
   labels:
    __meta_node_name : <node name>
```

Add a new cAdvisor Job in Prometheus scrape\_configs

Add kubernetes-nodes job for the App Cluster (Optional)

Sensitivity: General

# > Check added targets in Prometheus



Prometheus Alerts Graph Status ▼ Help

# kubernetes-nodes-cadvisor-application (19/19 up) showless

Endpoint	State	Labels
https://10.55.130.193:61149/api/v1/node s/blp13509358/proxy/metrics/cadvisor	UP	instance="10.55.130.193:61149"  job="kubernetes-nodes-cadvisor-application"
https://10.55.130.193:61149/api/v1/node s/blp13509357/proxy/metrics/cadvisor	UP	instance="10.55.130.193:61149"  job="kubernetes-nodes-cadvisor-application"