HPA

***kubectl autoscale deployment frontend-deployment \***

***--cpu-percent=60 \***

***--min=1 \***

***--max=5***

***kubectl get hpa***

If you are seeing unknown in the targets like below

NAME REFERENCE TARGETS MINPODS MAXPODS REPLICAS

backend-deployment Deployment/backend-deployment <unknown>/60% 1 5 1

frontend-deployment Deployment/frontend-deployment <unknown>/60% 1 5 1

Then

***kubectl edit deployment metrics-server -n kube-system***

Locate the args: block under the containers: section — around this section of your manifest:

***containers: - args:***

***- --cert-dir=/tmp***

***- --secure-port=10250***

***- --kubelet-preferred-address-types=InternalIP,ExternalIP,Hostname***

***- --kubelet-use-node-status-port***

***- --metric-resolution=15s***

Add This Line:

***- --kubelet-insecure-tls***

So your final args: block should look like this (in exact order doesn’t matter):

***containers: - args: - --cert-dir=/tmp***

***- --secure-port=10250***

***- --kubelet-preferred-address-types=InternalIP,ExternalIP,Hostname***

***- --kubelet-use-node-status-port***

***- --metric-resolution=15s***

***- --kubelet-insecure-tls***

Save and then

***kubectl get apiservices | grep metrics***

***kubectl top nodes***

***kubectl get hpa***

If that is not working then do the below process

Clean Wipe & Patch – The Reliable Fix

1. Delete broken deployment + stuck API registration

***kubectl delete deployment metrics-server -n kube-system kubectl delete apiservice v1beta1.metrics.k8s.io***

Wait a few seconds, then:

2. Reinstall metrics-server (clean slate)

***kubectl apply -f https://github.com/kubernetes-sigs/metrics-server/releases/latest/download/components.yaml***

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3. Add the insecure TLS flag

***kubectl patch deployment metrics-server -n kube-system \ --type='json' \ -p='[{"op":"add","path":"/spec/template/spec/containers/0/args/-","value":"--kubelet-insecure-tls"}]'***

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That patch **guarantees** the correct args even if the manifest gets updated.

Final Validation

After ~30 seconds:

***kubectl get apiservices | grep metrics***

***kubectl top nodes***

***kubectl get hpa***

You’re looking for:

v1beta1.metrics.k8s.io True