EKS Cluster Autoscaling Test + Cleanup Cheat Sheet (MT Project)

Step 1: Deploy CPU Stress Test

Triggers autoscaler by creating many pods needing CPU.

kubectl apply -f

https://raw.githubusercontent.com/kubernetes/autoscaler/master/cluster-autoscaler/cloudprovider/aws/examples/cluster-autoscaler-test.yaml

Check pods:

kubectl get pods -w

Look for many pods in Pending [] new nodes will be added.

Check nodes:

kubectl get nodes

Step 2: Cleanup (Stop Stress Test & Scale Down)

1 2.1 Delete CPU Stress Pods

kubectl delete deployment cpu-stress

Confirm pods are gone:

kubectl get pods

1 2.2 Watch Nodes Auto-Scale Down (10-15 mins)

kubectl get nodes -w

Nodes will reduce automatically when they're empty.

1 2.3 (Optional) Force Immediate Scale Down to 2 Nodes

Run this ready command for MT Project:

 $aws\ eks\ update-node group-config\ --cluster-name\ mt-cluster\ --node group-name\ mt-node-group\ --scaling-config\ minSize=2, maxSize=4, desiredSize=2$

Wait 2-5 mins and check:

kubectl get nodes

 $\ensuremath{\mathbb{I}}$ You should now see only $2\ nodes$ (clean state).

Notes

• Cluster Autoscaler auto-adds and removes nodes based on pod demand.

- \bullet Stress test is safe: no real workload, just forces scaling.
- Always clean up (Step 2) to avoid AWS charges!

 $\ \square$ Use this anytime to test scaling! (MT Project safe steps)