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GitHub link: <https://github.com/yanchenglee98/OTOT-A2-A3>

Instructions:

1. install metrics server: kubectl apply -f https://github.com/kubernetes-sigs/metrics-server/releases/latest/download/components.yaml
2. manually edit Deployment manifest to ensure tls is working:

kubectl -nkube-system edit deploy/metrics-server

add a flag `--kubelet-insecure-tls` to `deployment.spec.containers[].args[]`

restart the Deployment using `kubectl -nkube-system rollout restart deploy/metrics-server`

1. apply hpa: kubectl apply -f ./demo/a3/hpa.yml
2. spam refresh at <http://localhost/app/>
3. check hpa event log: kubectl describe hpa
4. apply zone aware: kubectl apply -f ./demo/a3/deployment-zone-aware.yml
5. check zone aware allocation: kubectl get po -lapp=a2-zone-aware -owide

Screenshot proof:

Before scale:

Text

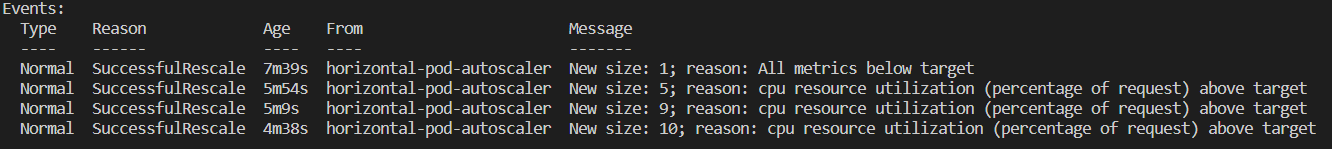
Description automatically generated

After scale:

A picture containing graphical user interface

Description automatically generated

HPA event output:



Video demo link: <https://drive.google.com/file/d/1LI9efI9_peSOteEwQRwC1cssJ45FLNnK/view?usp=sharing>

Demo does not show scaling as it takes a while to scale