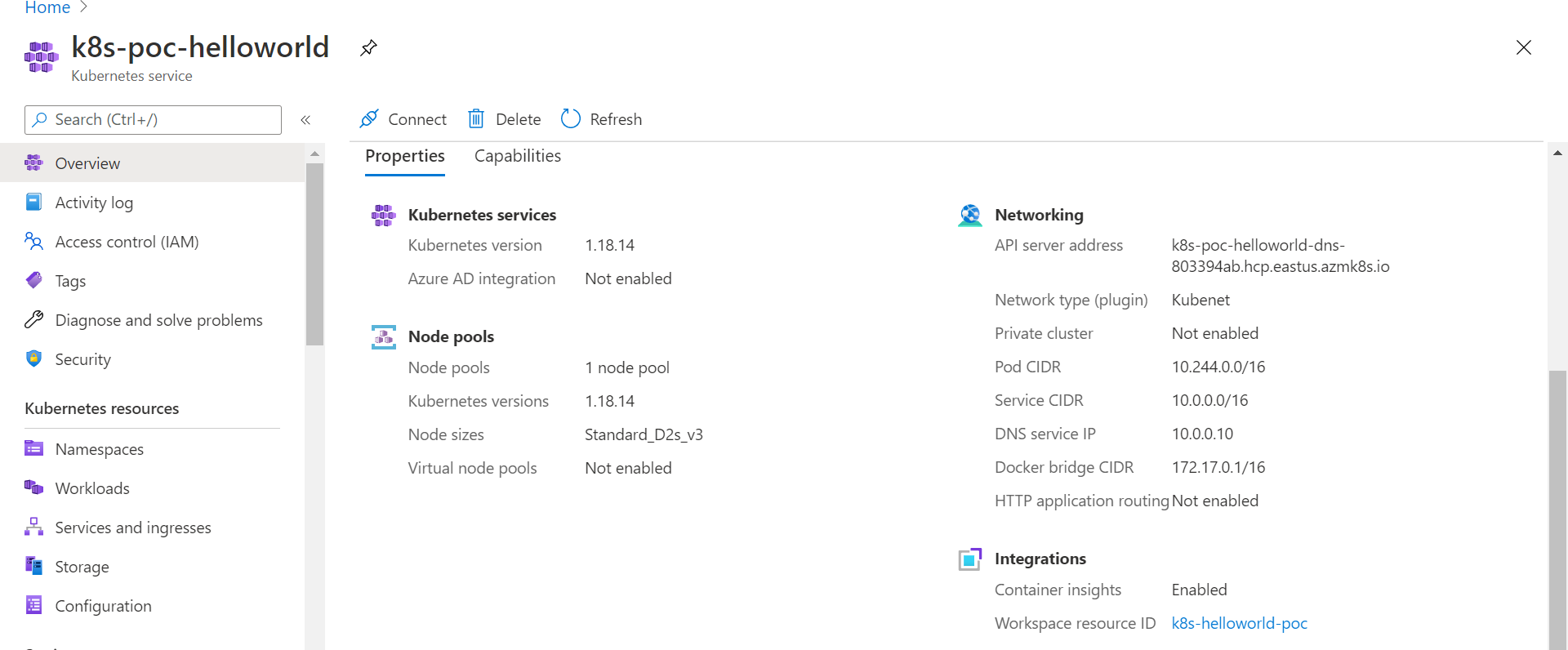
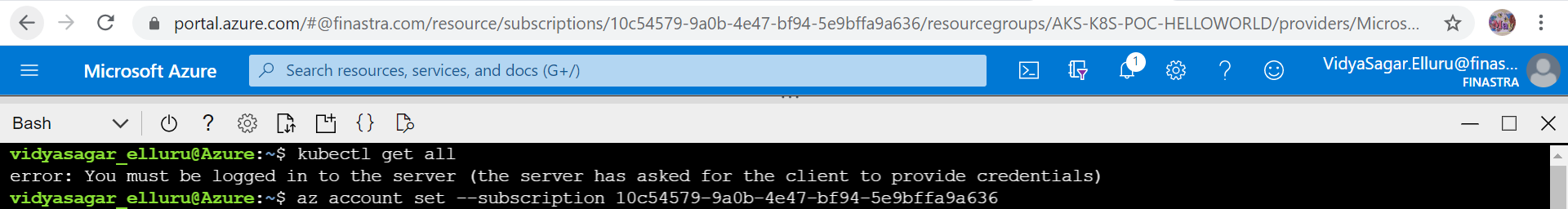
**Mandatory – helloworld POC**

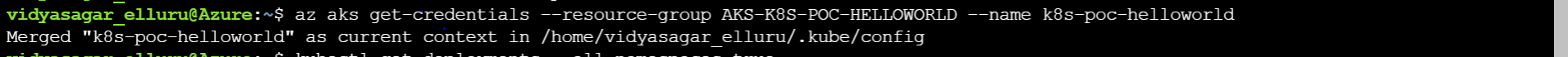
**Step1: k8s cluster configuration**



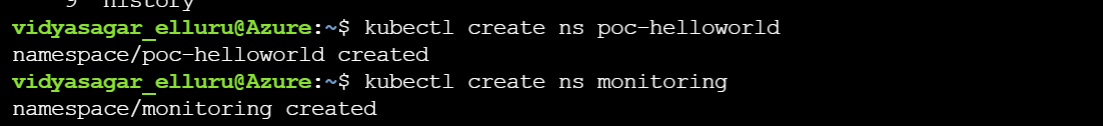
**Step2: to set subscription**



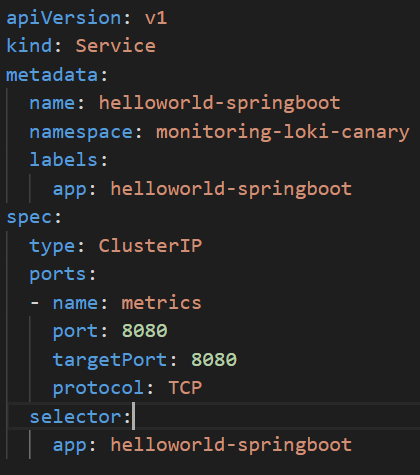
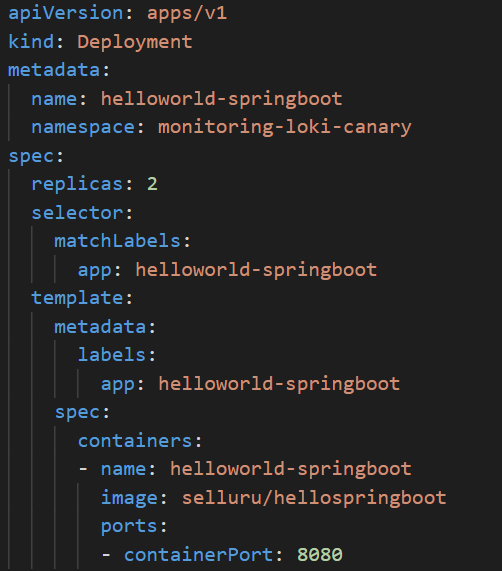
**Step3: Run the below command to lets get the access credentials for an AKS cluster and merges them into the kubeconfig file**



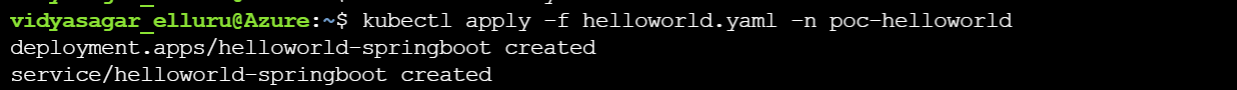
**Step4: create 2 separate namespaces one for each helloworld and prometheus/loki/grana operator setup**



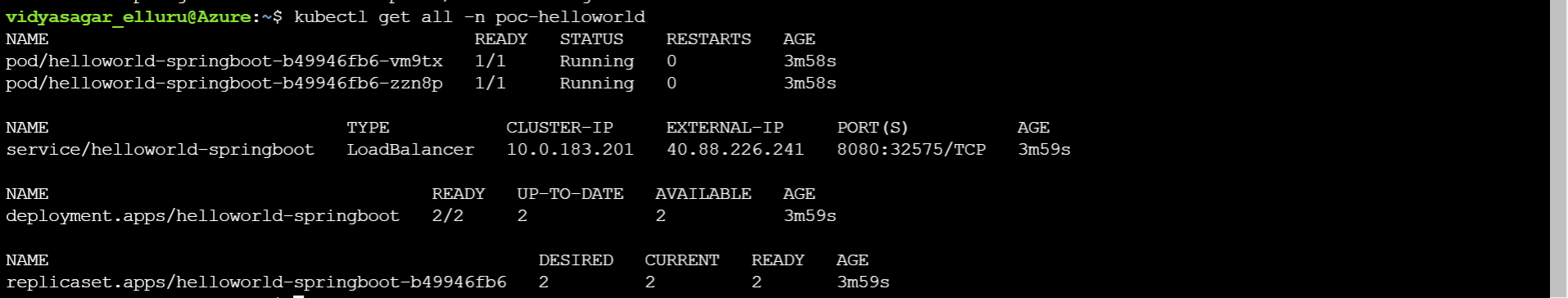
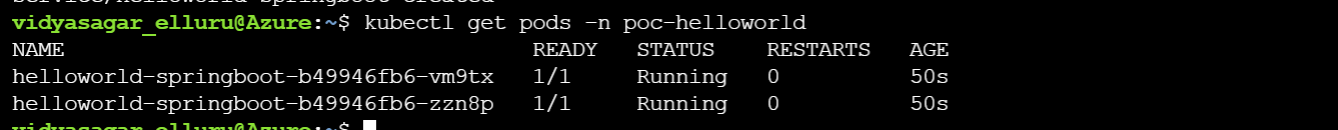
**Step4: create pod def yaml file for hello springboot application developed using micrometer config.**



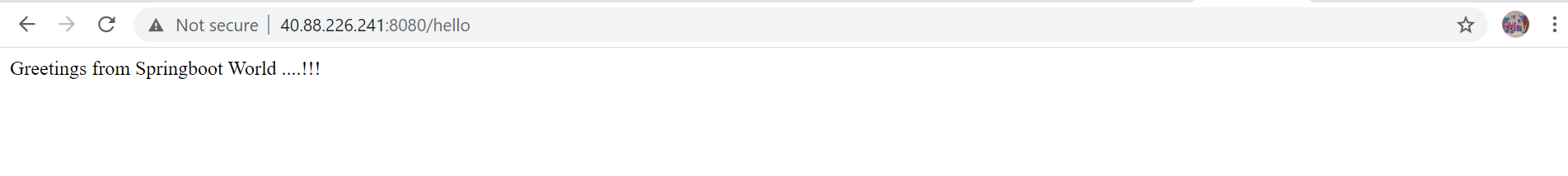
**Step4: Deploy yaml file for hello springboot**



**Step5: Verify for running pod details**

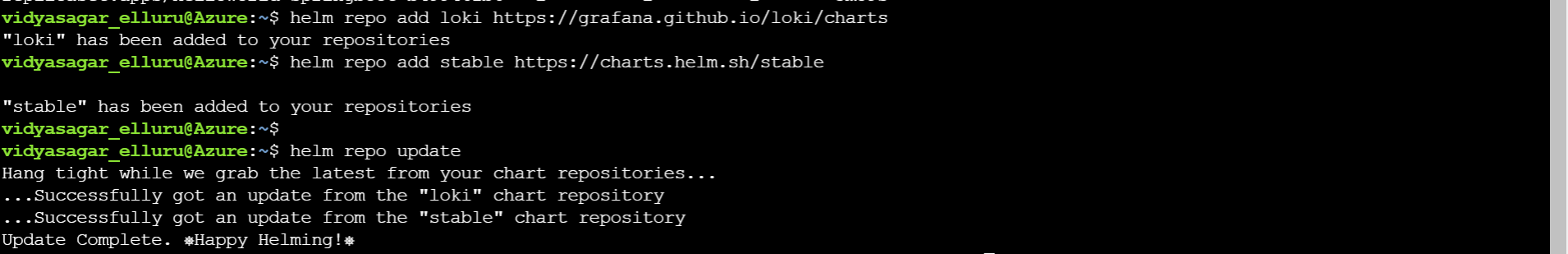


**Step6: Check for accessing application and metrics being pushed**

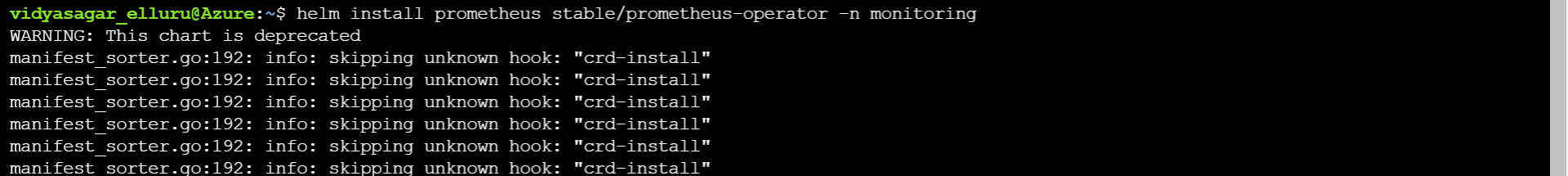




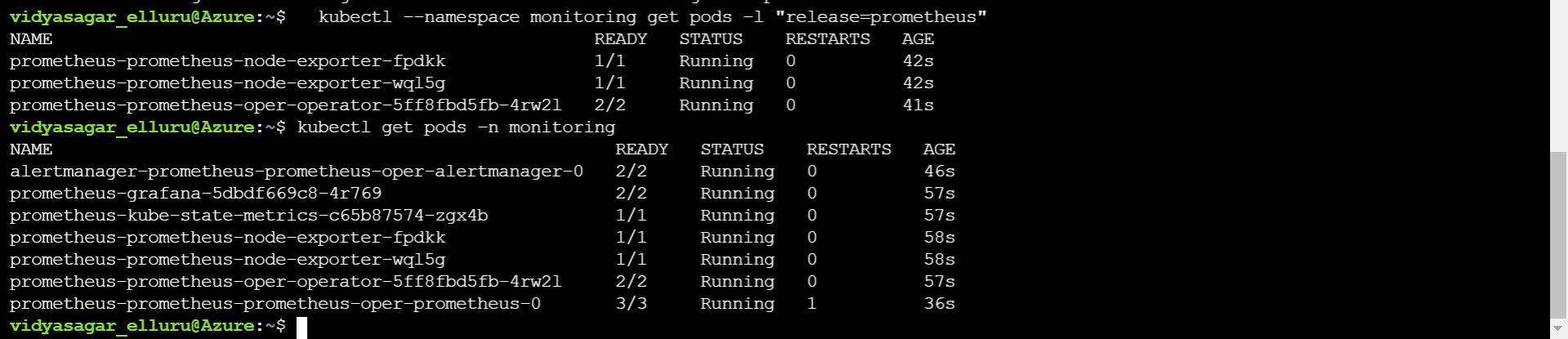
**Step7: Add helm repos to your local repo for prometheus and loki**



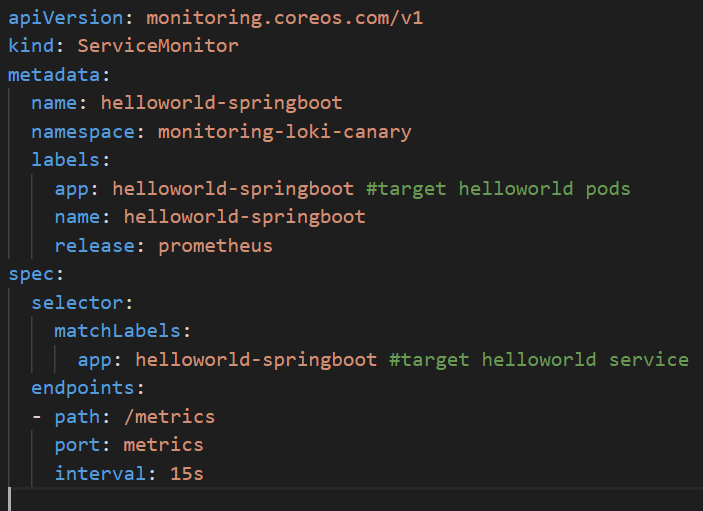
**Step8: Install prometheus operator using helm charts it adds CRDs to newly built k8s cluster**



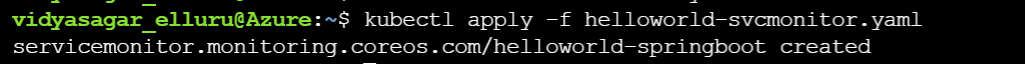
**Step9: verify pods for prometheus and Grafana in monitoring namespace**



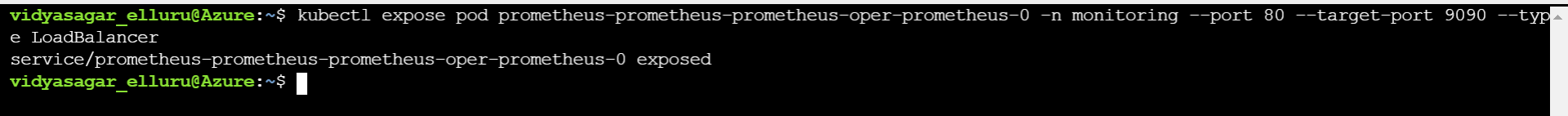
**Step10: create svc monitor yaml file for helloworld springboot to scrape its metrics to prometheus**

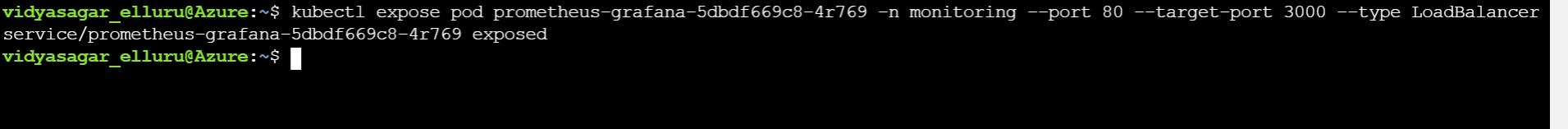


**Step11: Deploy svc monitor yaml file for helloworld**

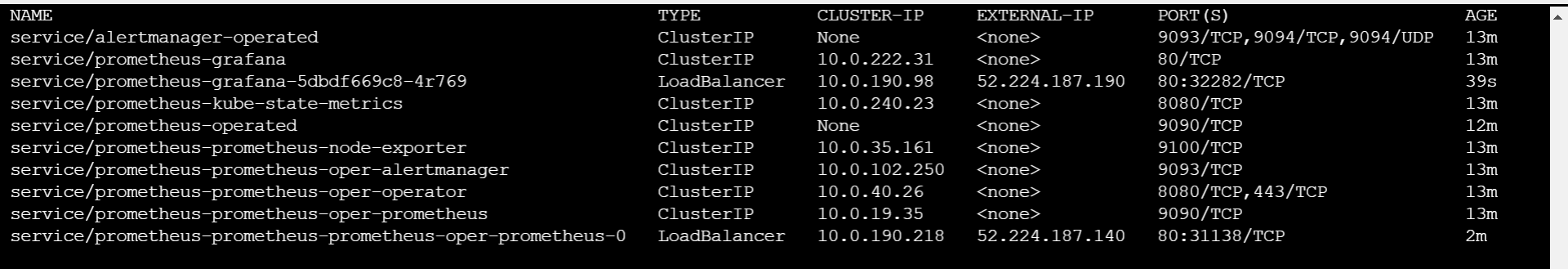


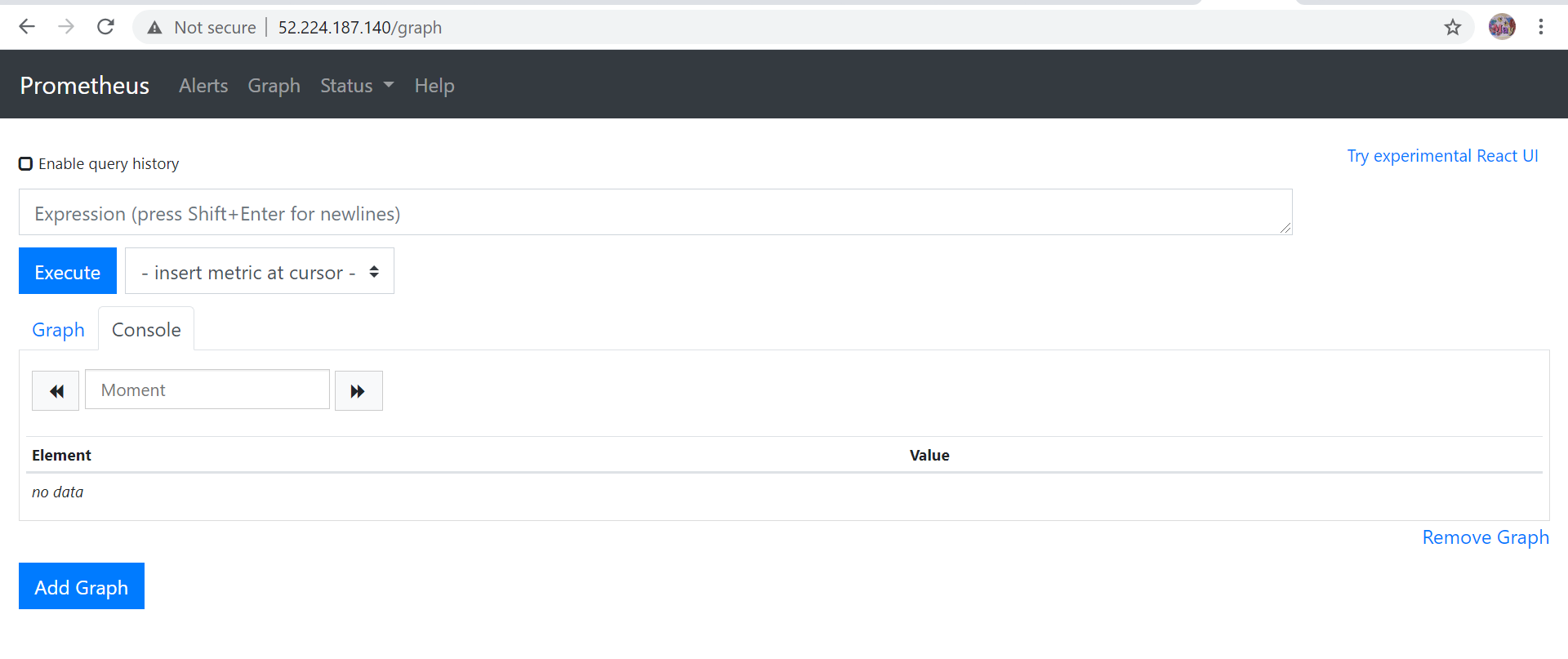
**Step12: Expose the prometheus server and Grafana IPs**

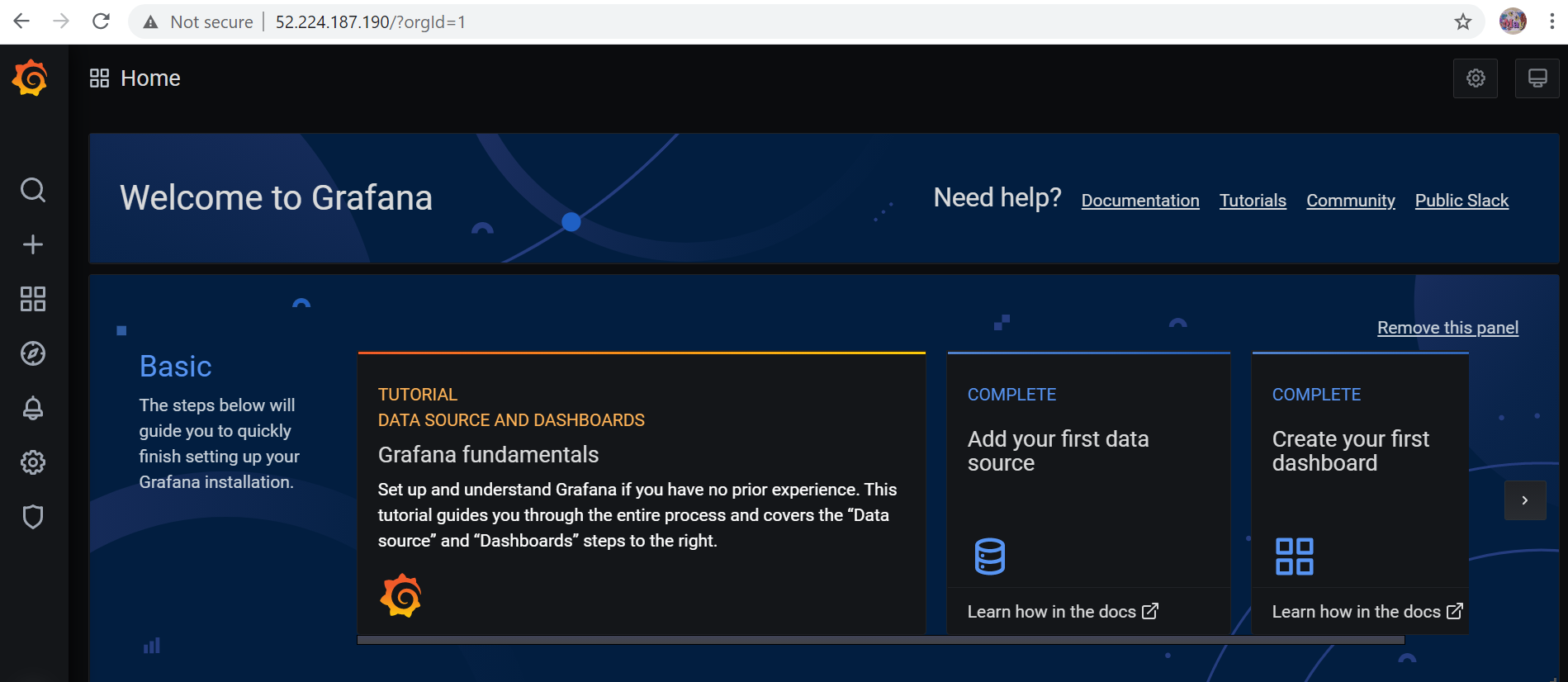




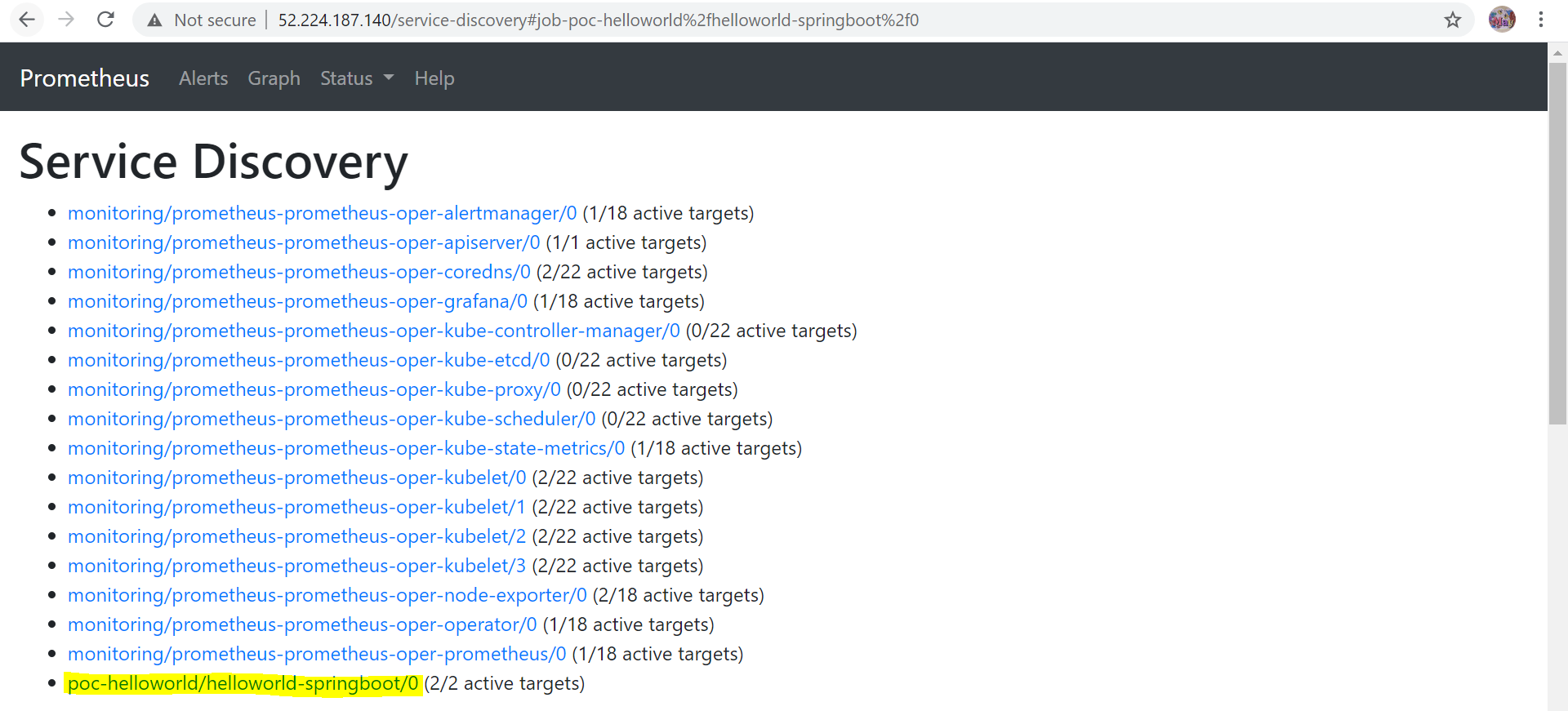
**Step13: Check whether prometheus server and Grafana are accessible**

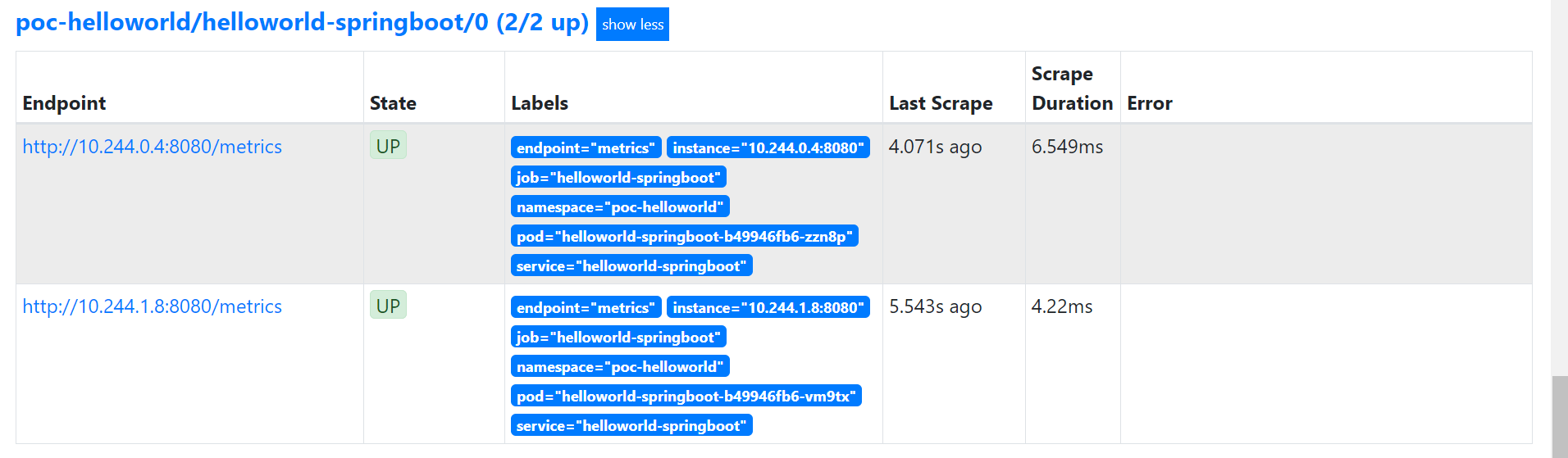




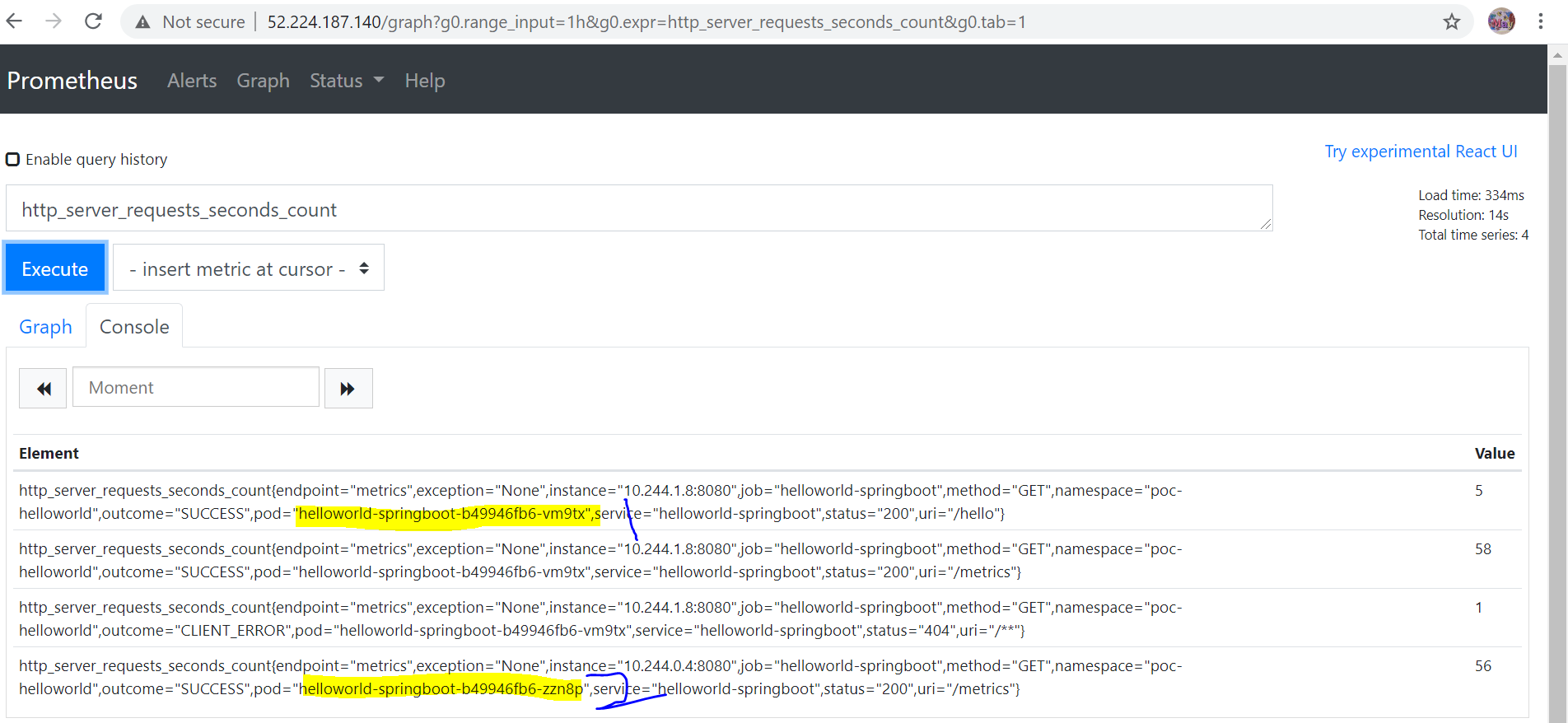


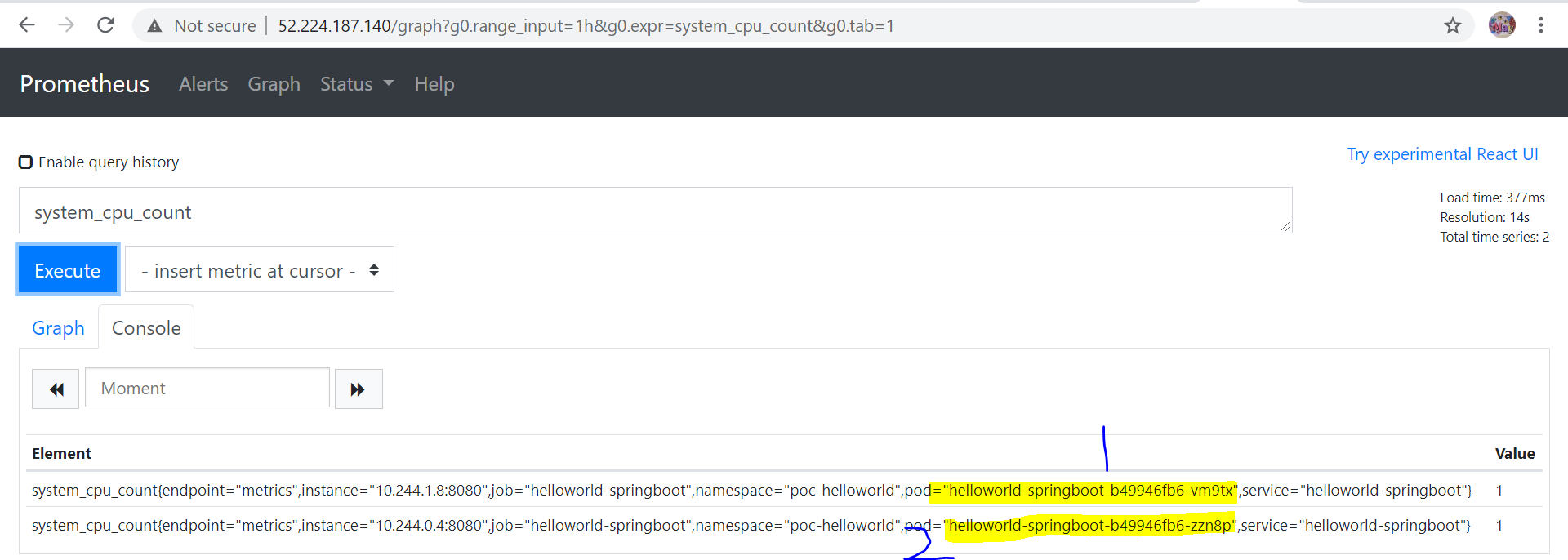
**Step14: Verify service discovery and targets for helloworld application on prometheus server**

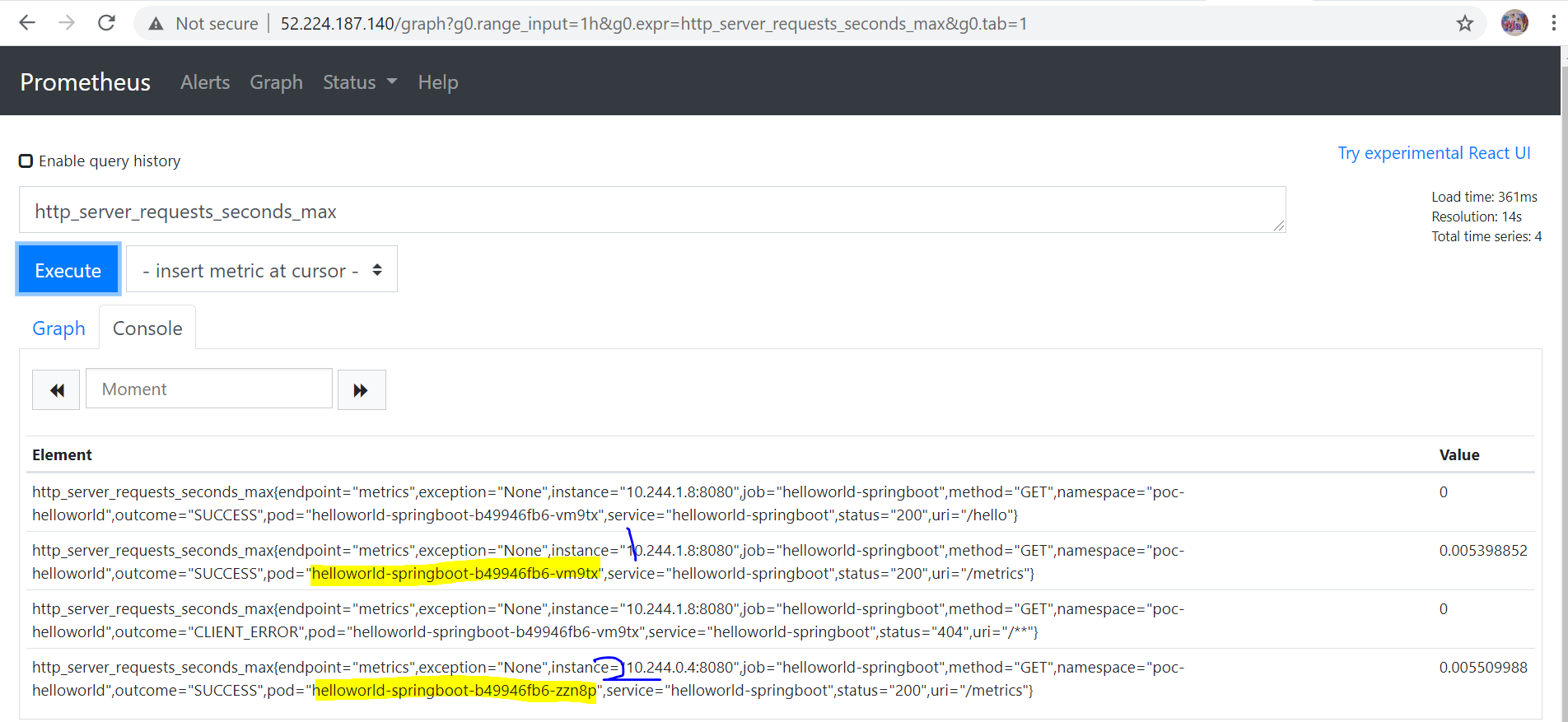


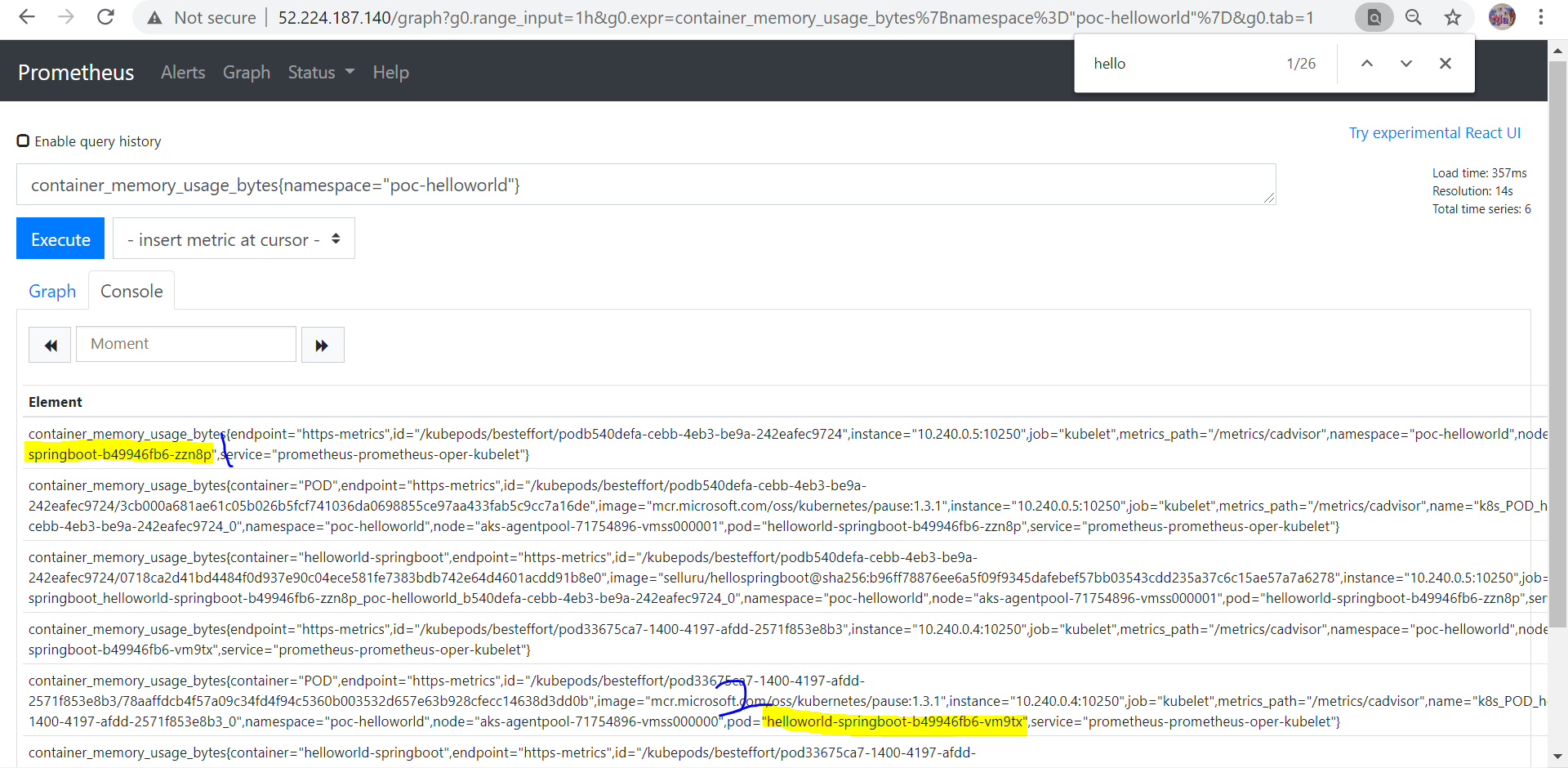


**Step15: Verify cpu, memory, error rate and response metrics for helloworld app**

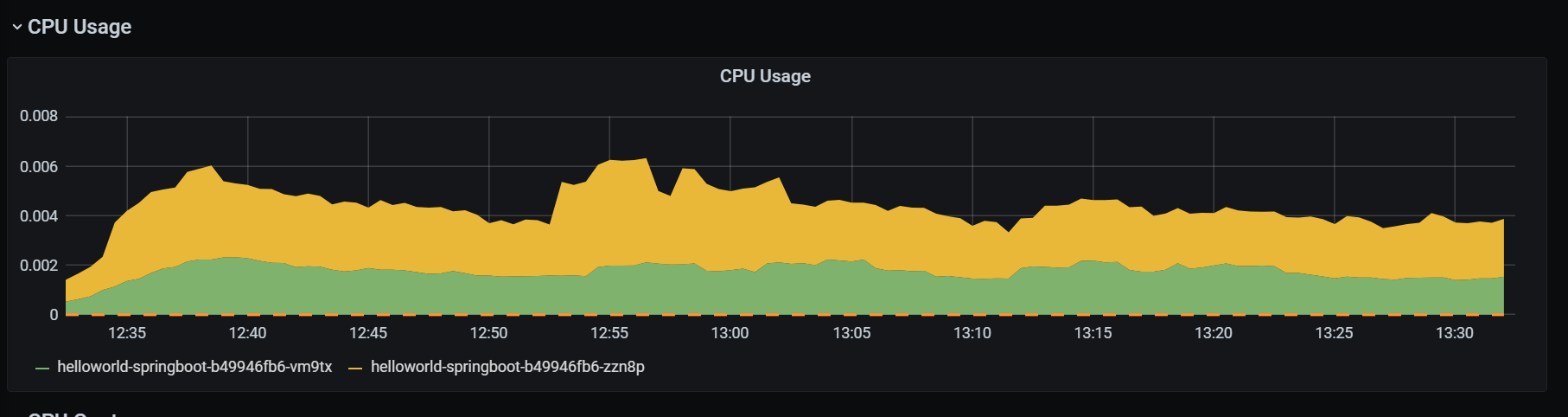




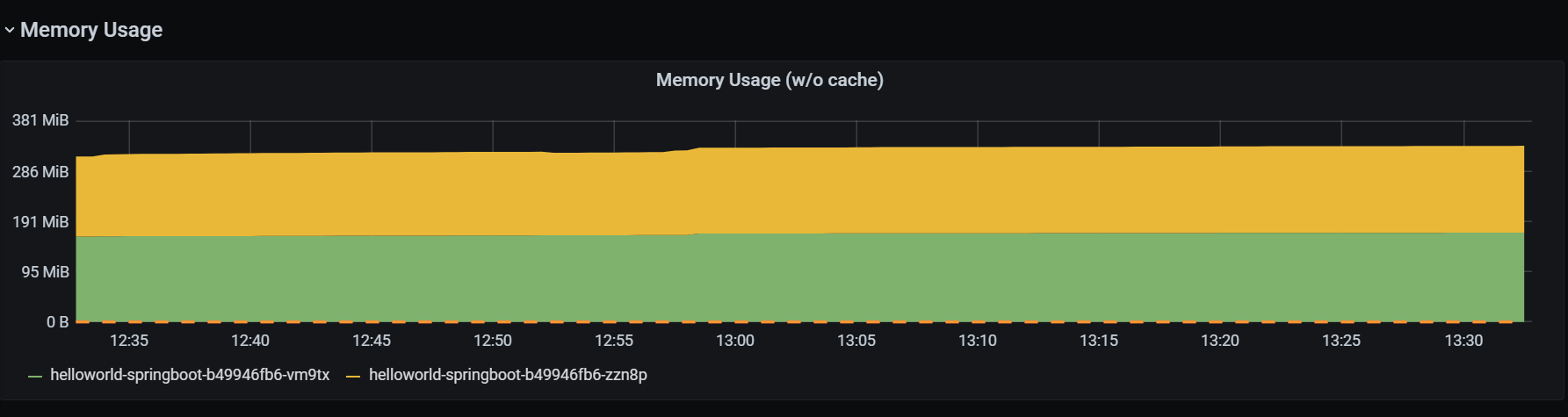




**Step16: Grafana dashboard for helloworld app metrics**



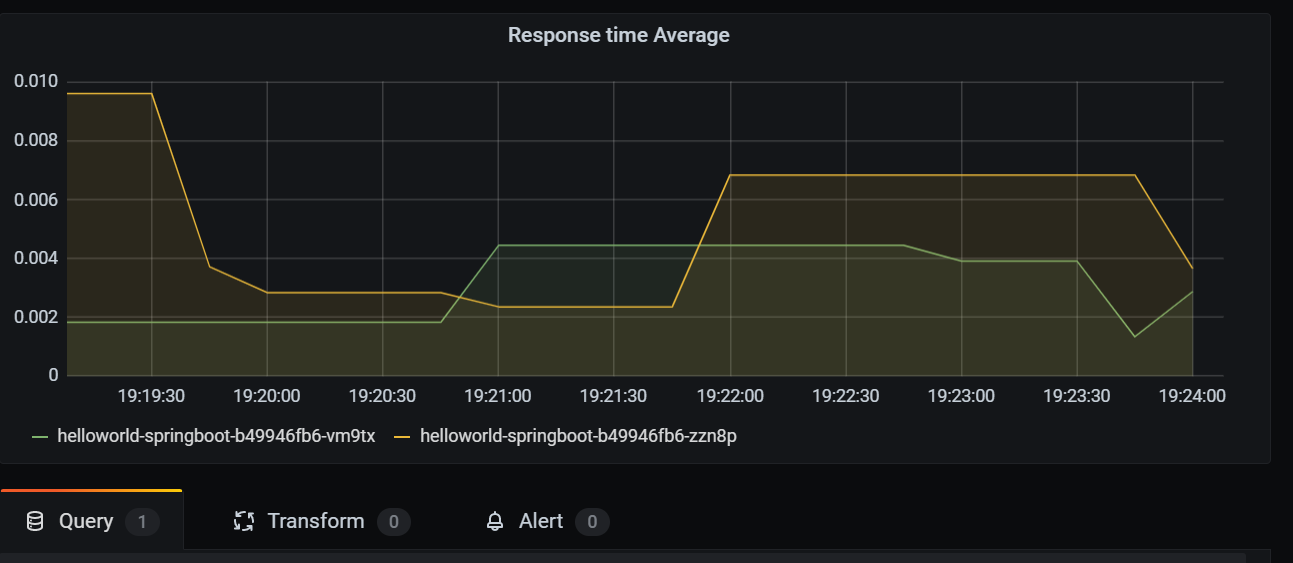
CPU usage



**RSS memory and memory used**

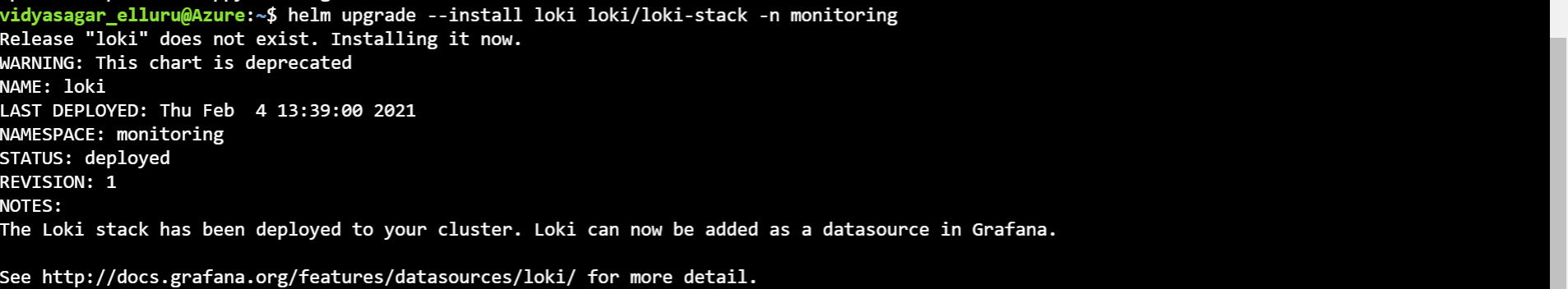


**Error 404 dashboard**

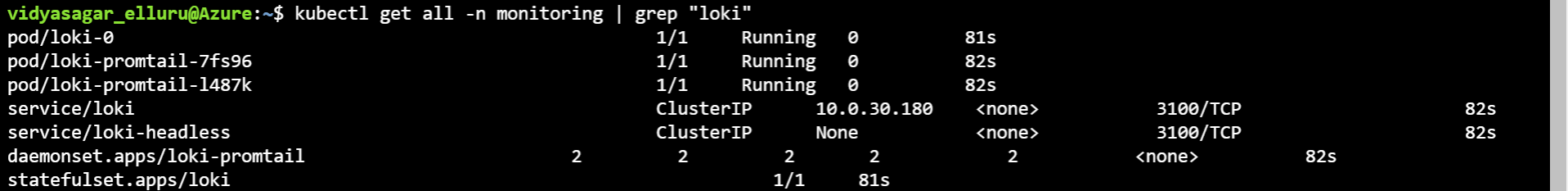


**Average Responsetime**

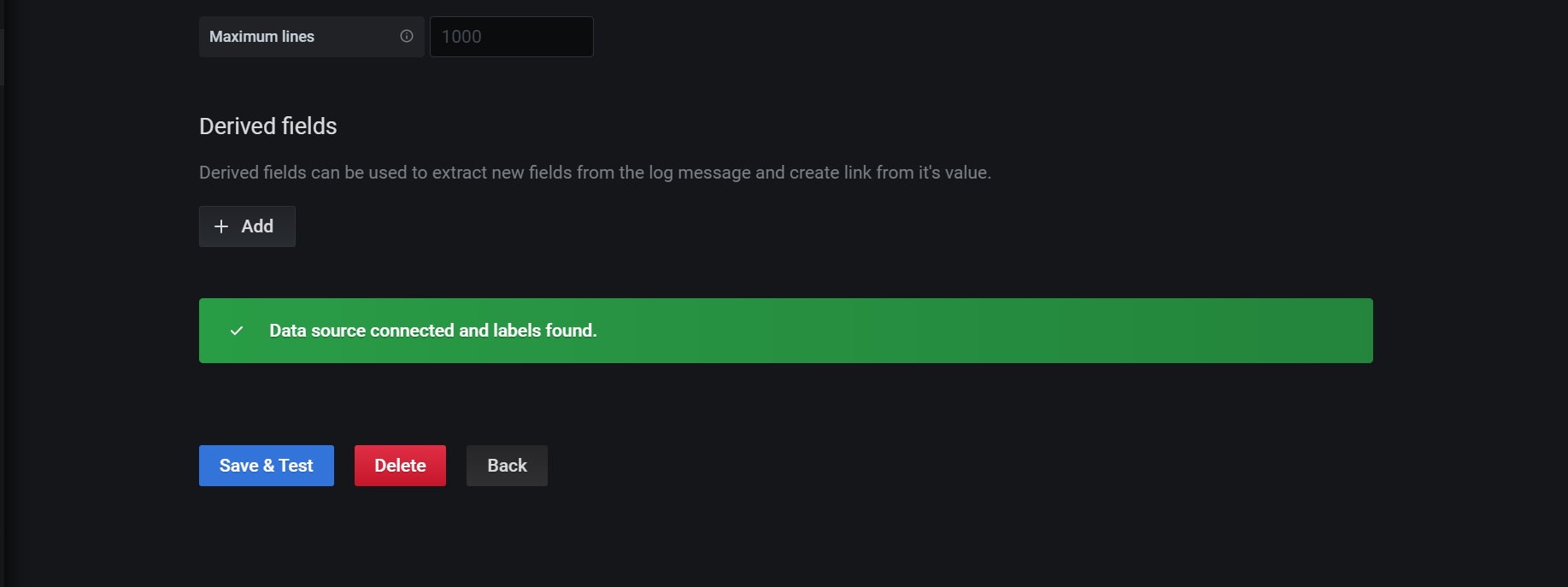
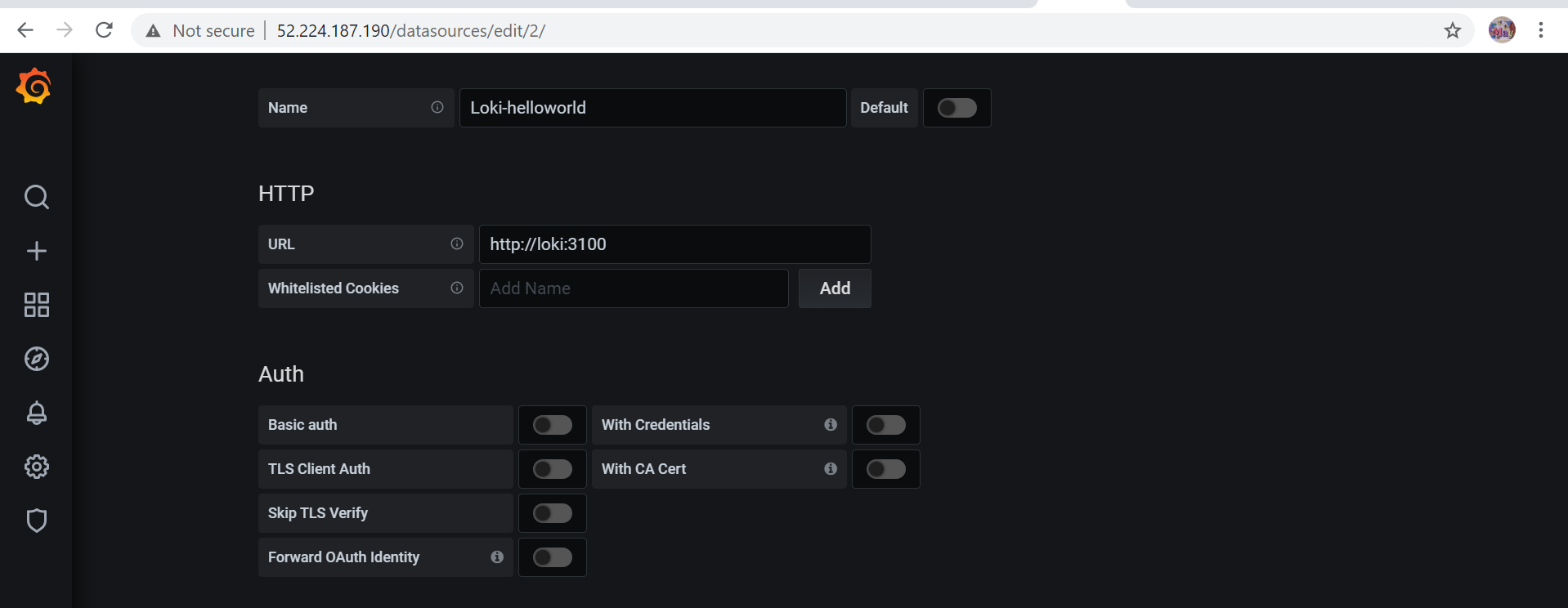
**Step17: Install loki with helm charts**



**Step18: verify promtail and loki agents installed on k8s cluster**



**Step19: Add loki as data source to Grafana portal**



**Step20: check for logs for helloworld in loki via explore option in Grafana**

