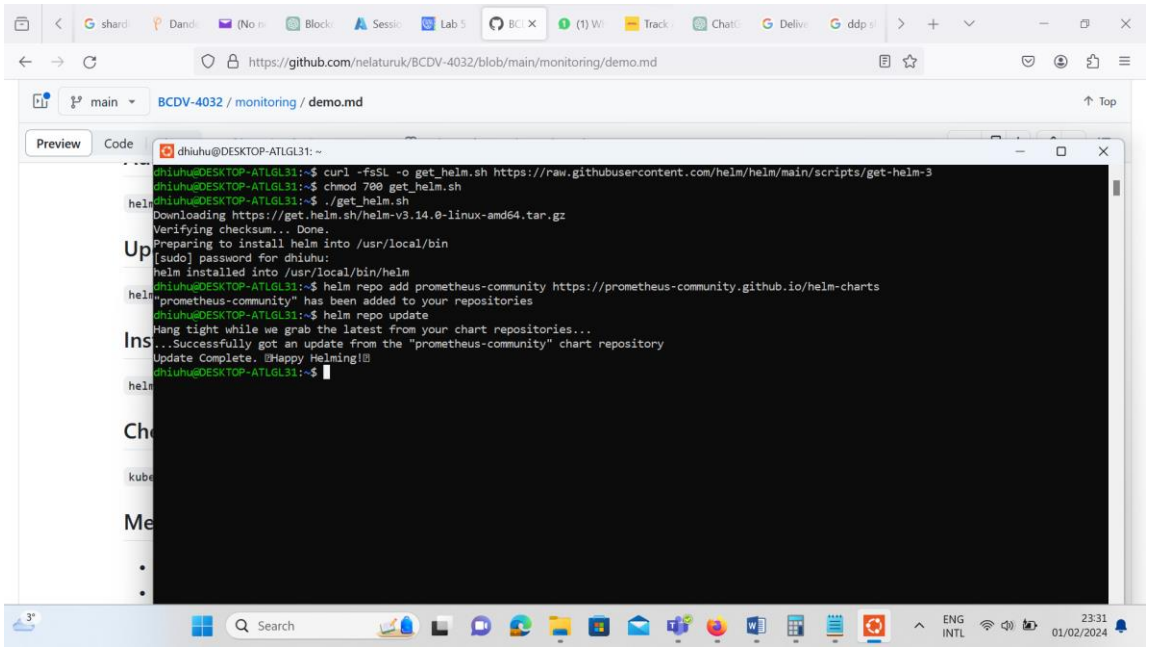
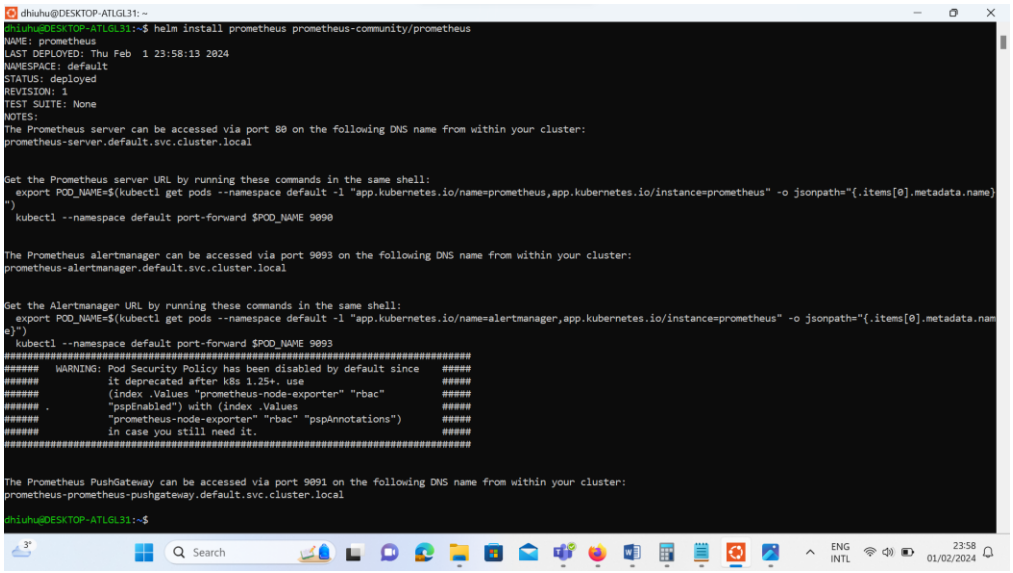
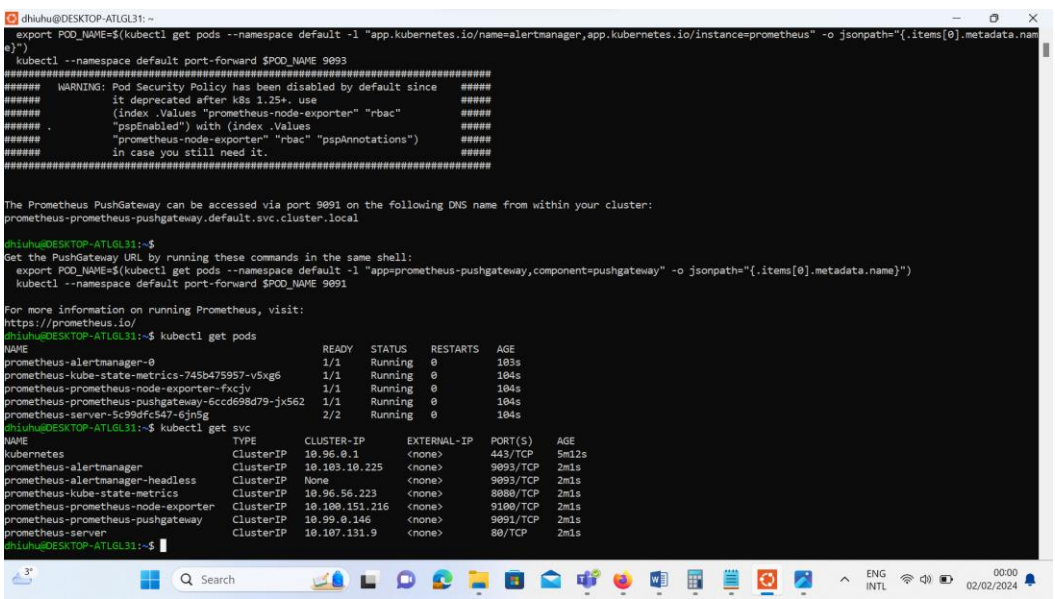


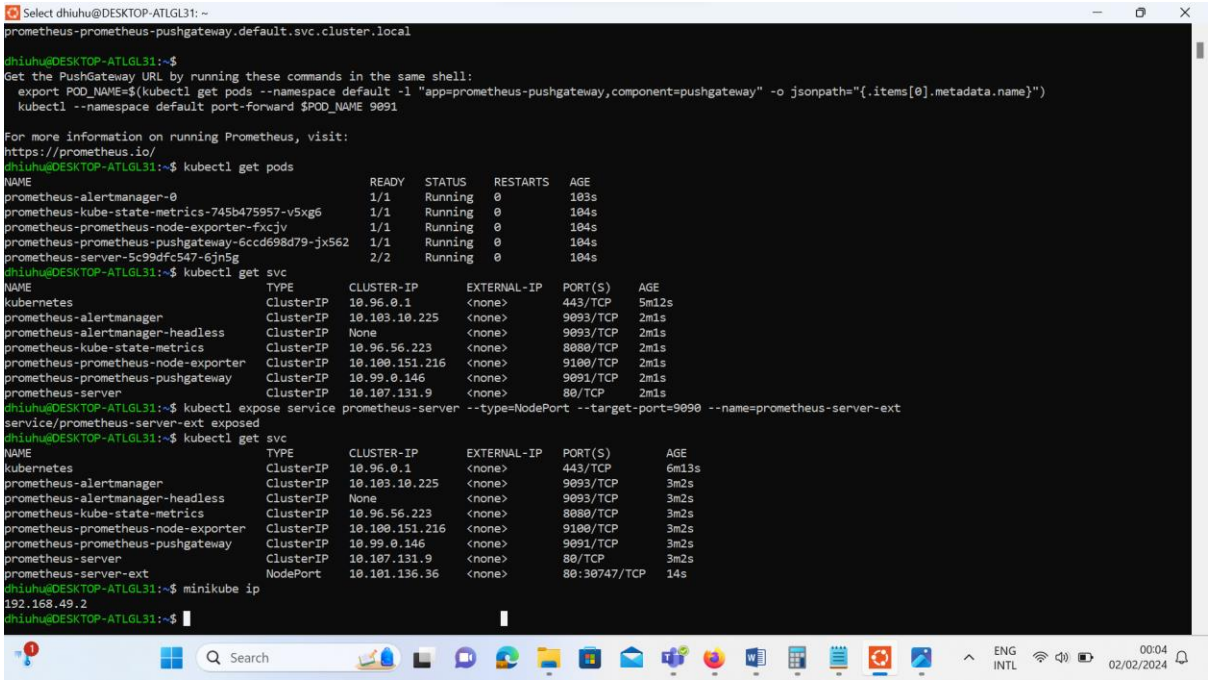
Install helm



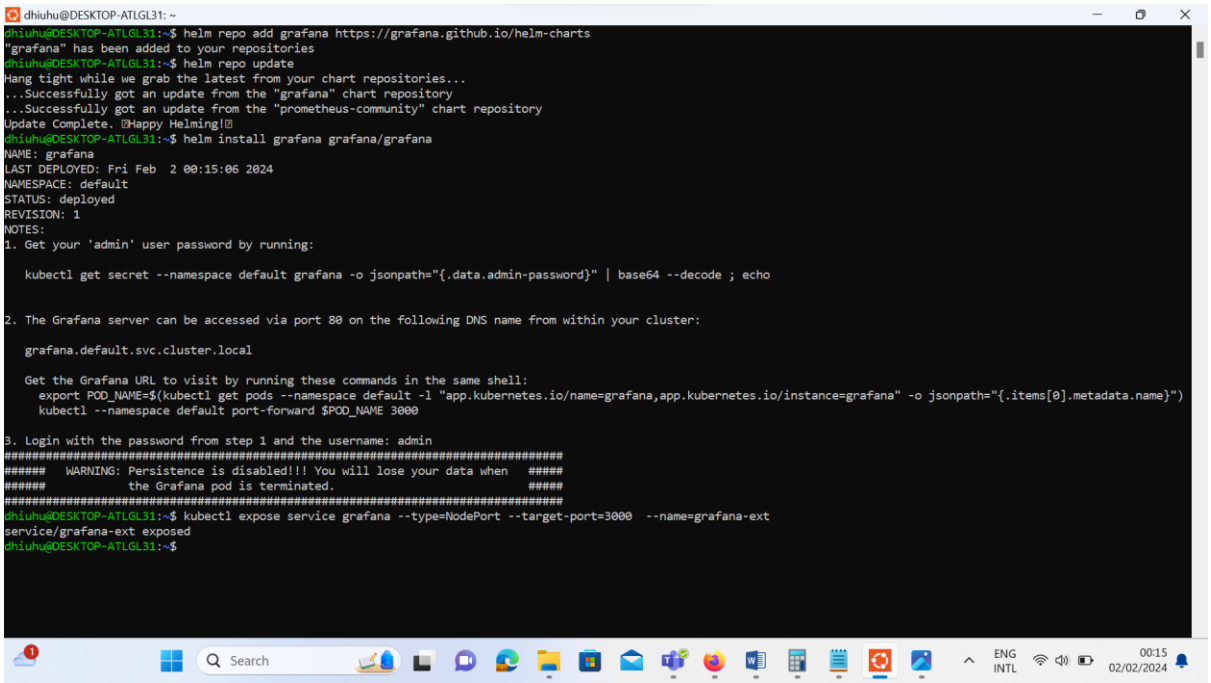
Check for Prometheus installation



Metrics on Prometheus



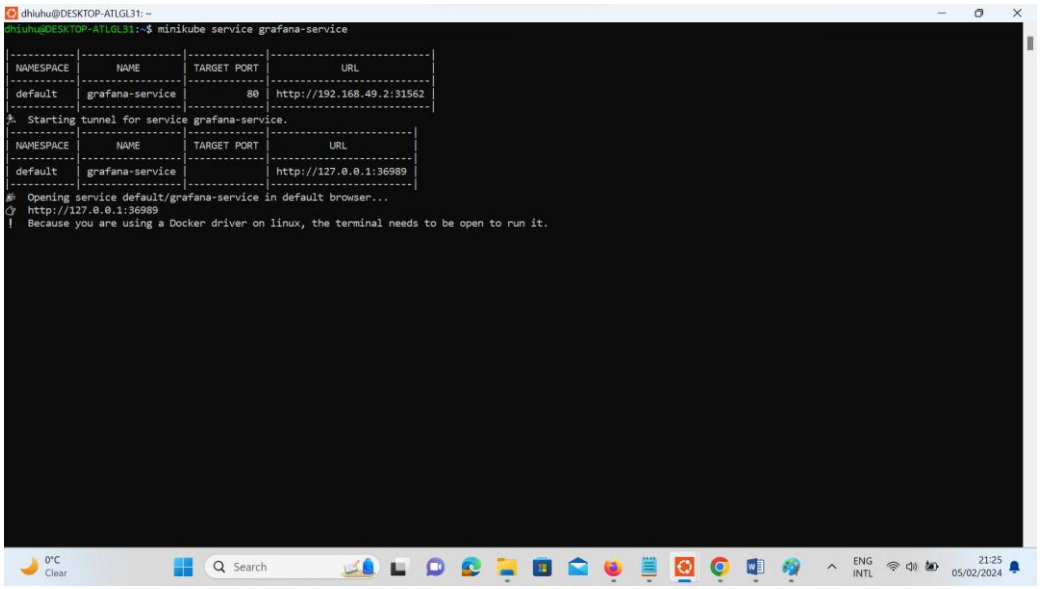
Install Grafana >> Add helm repo >>Update helm repo>> Install helm>> Expose Grafana Service

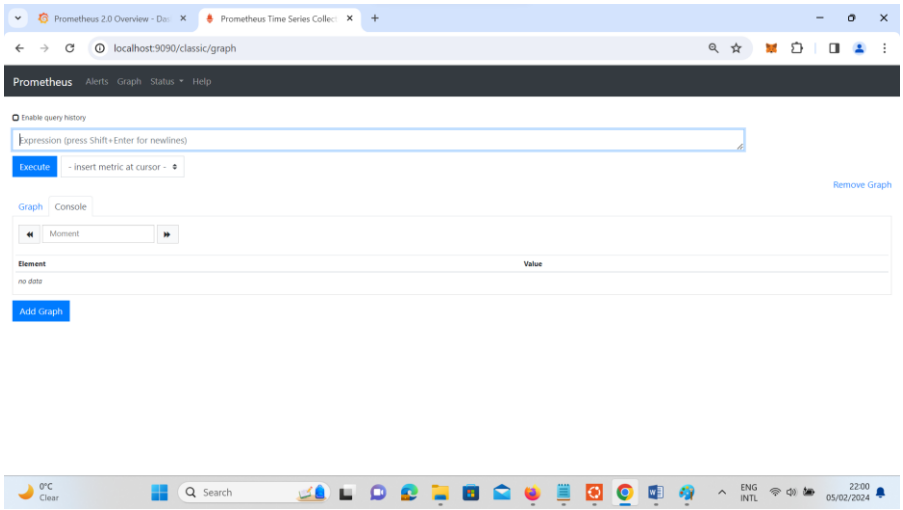


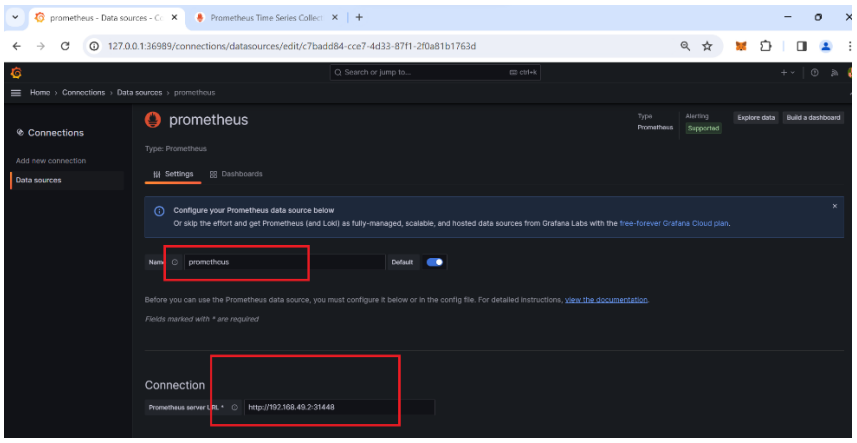
Get Grafana admin password

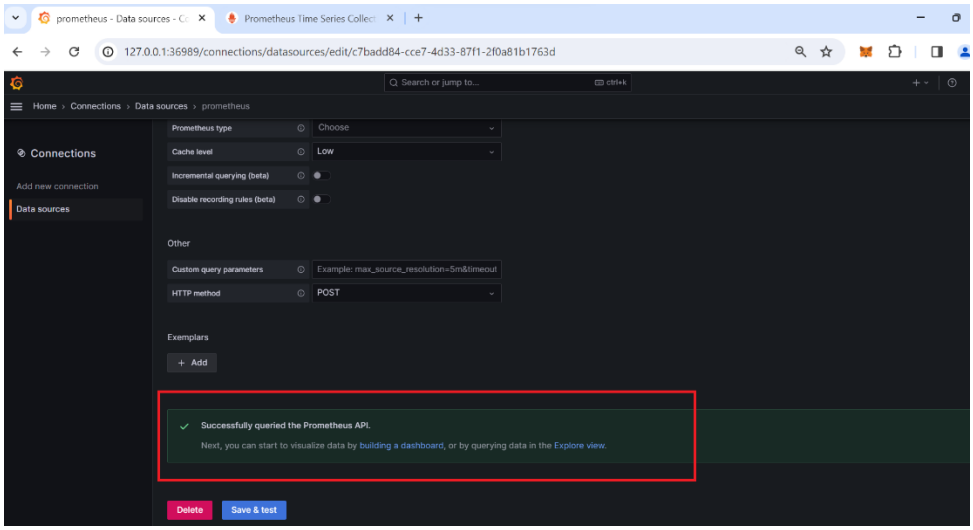
```
dhiuhu@DESKTOP-ATLGL31: ~
dhiuhu@DESKTOP-ATLGL31:~$ kubectl get secret --namespace default grafana -o jsonpath="{.data.admin-password}" | base64 --decode ; echo
T53ONDsxTbYCdfxP1qD9aJynCfHxyiz9MjMRb0Lz
dhiuhu@DESKTOP-ATLGL31:~$ kubectl get pods
NAME                                            READY   STATUS    RESTARTS      AGE
grafana-7866b54884-fnbps                        1/1     Running   1 (26h ago)   45h
prometheus-5c74fcd85c-9kvtl                     1/1     Running   1 (26h ago)   28h
prometheus-alertmanager-0                       1/1     Running   1 (26h ago)   45h
prometheus-kube-state-metrics-745b475957-cb6wd  1/1     Running   1 (26h ago)   45h
prometheus-prometheus-node-exporter-fgt5r       1/1     Running   1 (26h ago)   45h
prometheus-prometheus-pushgateway-6ccd698d79-pvgdp  1/1     Running   1 (26h ago)   45h
prometheus-server-5c99dfc547-pv56k              2/2     Running   2 (26h ago)   45h
dhiuhu@DESKTOP-ATLGL31:~$ kubectl get svc
NAME                 TYPE        CLUSTER-IP      EXTERNAL-IP   PORT(S)        AGE
grafana              ClusterIP   10.98.239.155   <none>        80/TCP         45h
grafana-ext          NodePort    10.106.77.41    <none>        80:32005/TCP   46h
grafana-service      NodePort    10.107.162.176  <none>        80:31562/TCP   28h
```

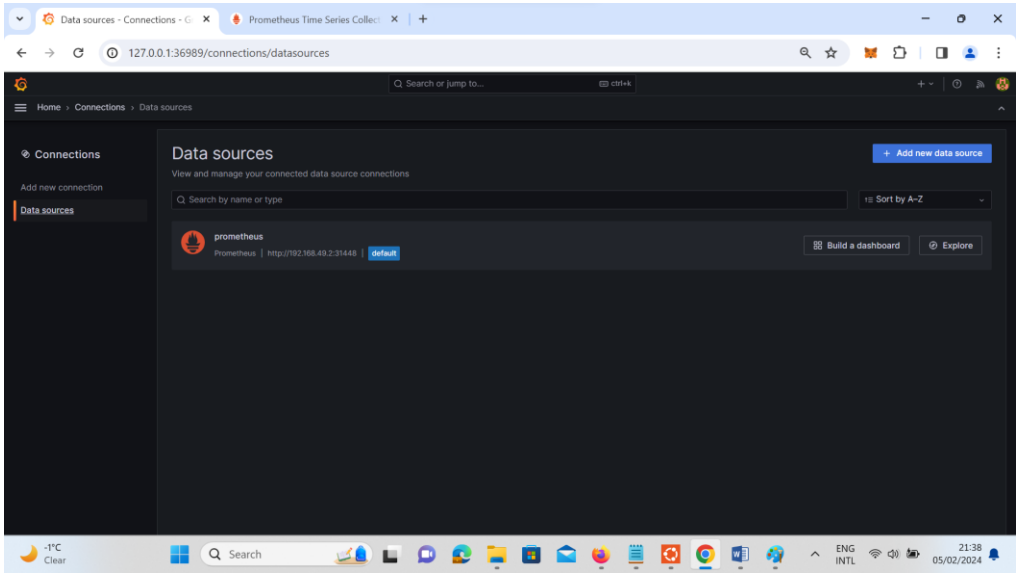
Add Prometheus as data source for Grafana



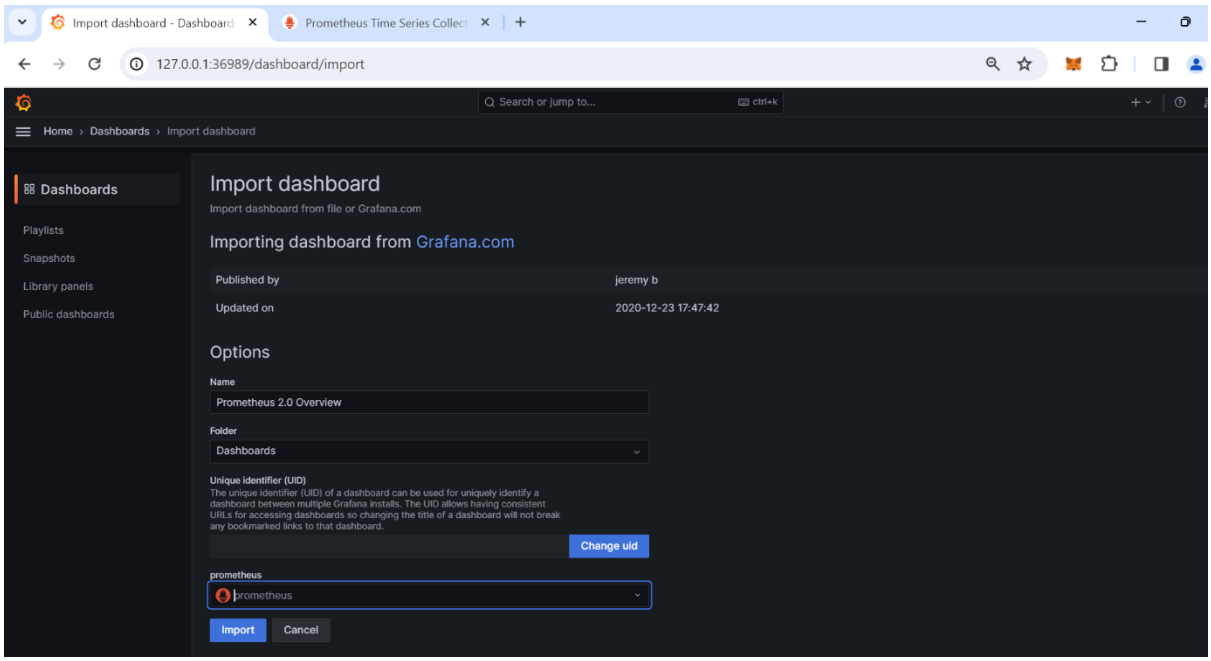




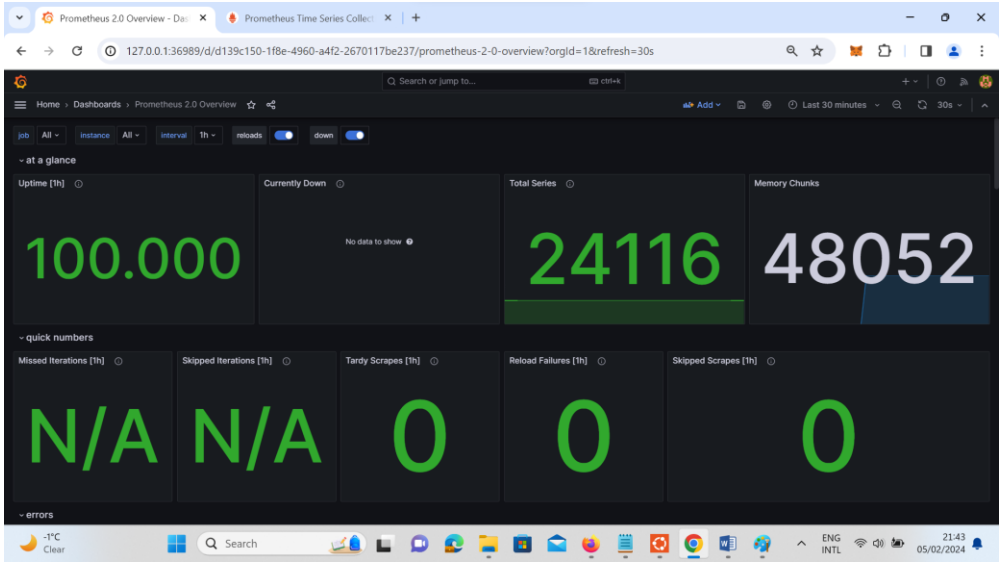




Import dashboard from 3662 ID.

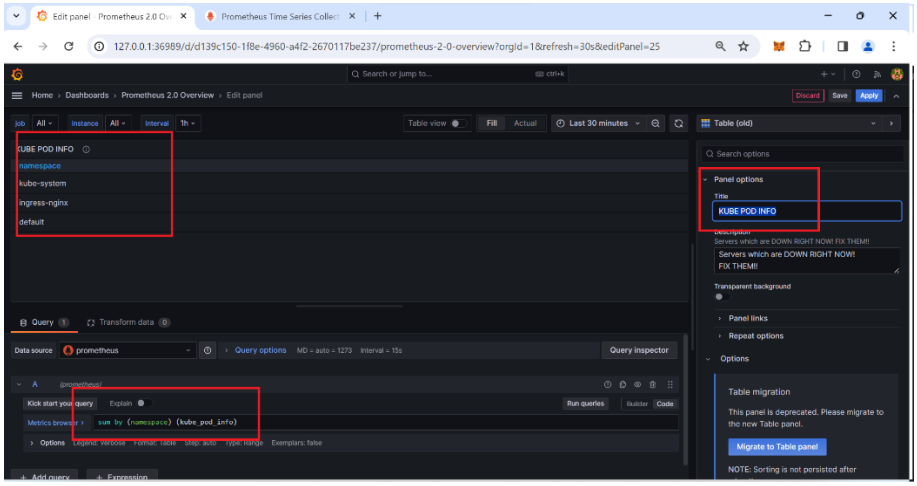


DASHBOARD 3662 ID

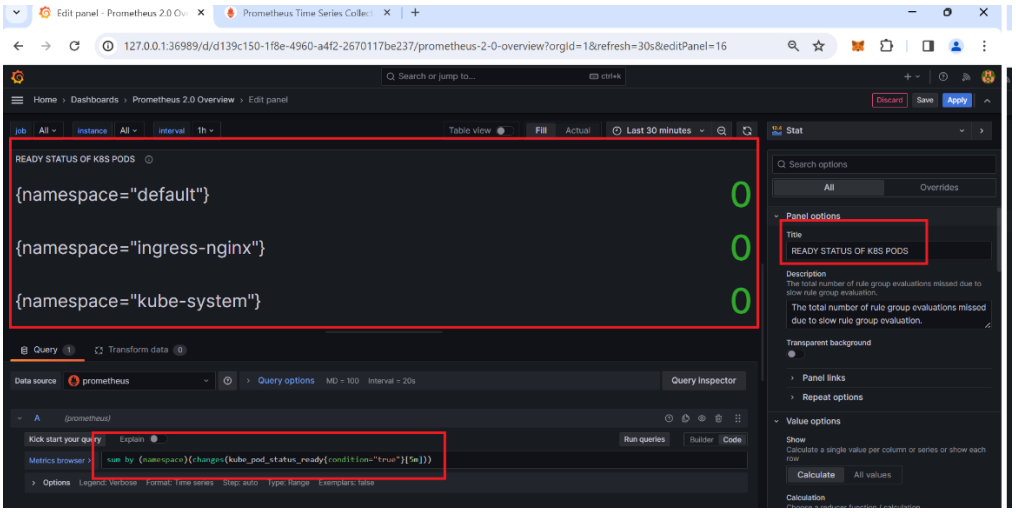


VISUALIZATIONS WITH PromQL Examples

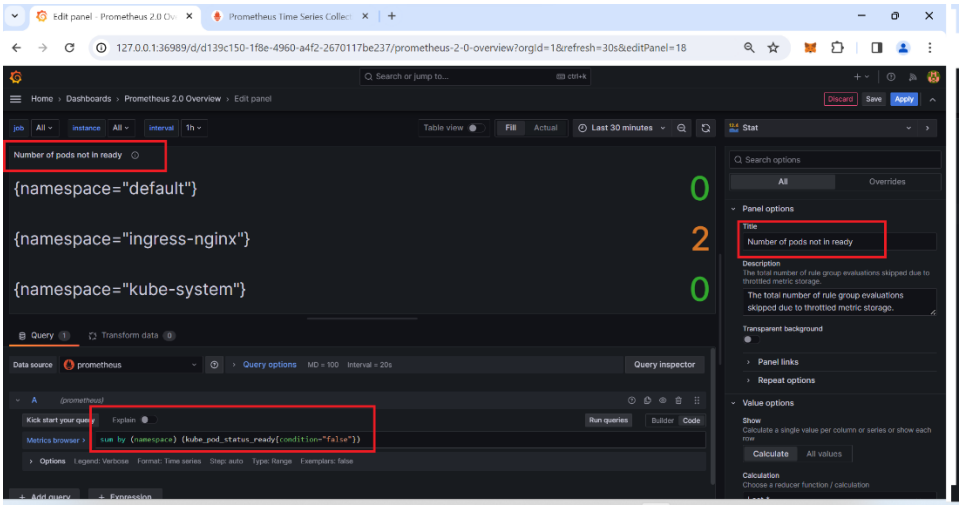
1. KUBE POD INFO `sum by (namespace) (kube_pod_info)`



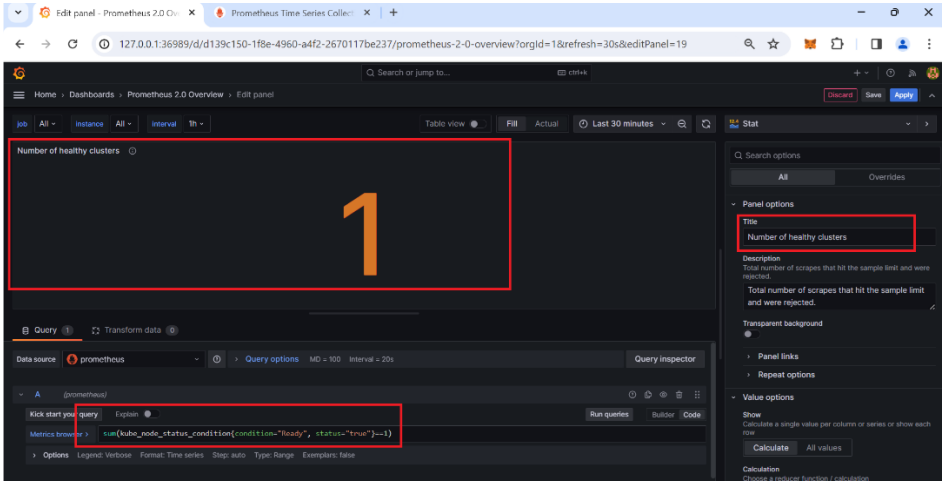
2. READY STATUS OF K8S PODS `sum by (namespace)(changes(kube_pod_status_ready{condition="true"}[5m]))`



3. Number of pods not in ready `sum by (namespace) (kube_pod_status_ready{condition="false"})`



4. Number of healthy clusters



FINAL DASHBOARD – 4 VISUALIZATIONS