BCDV 4032 - Building Scalable Blockchain App

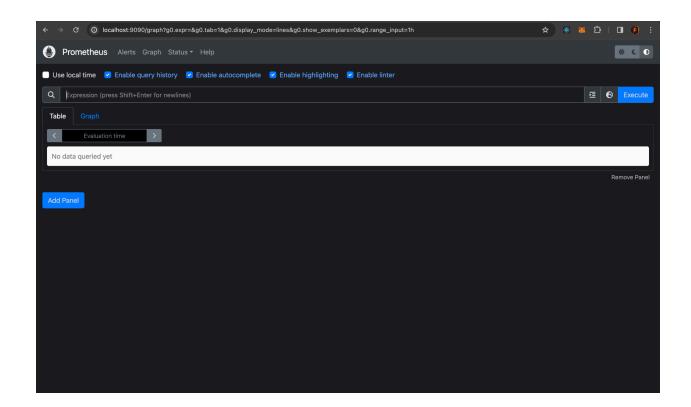
Lab - 5

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1. Install Prometheus

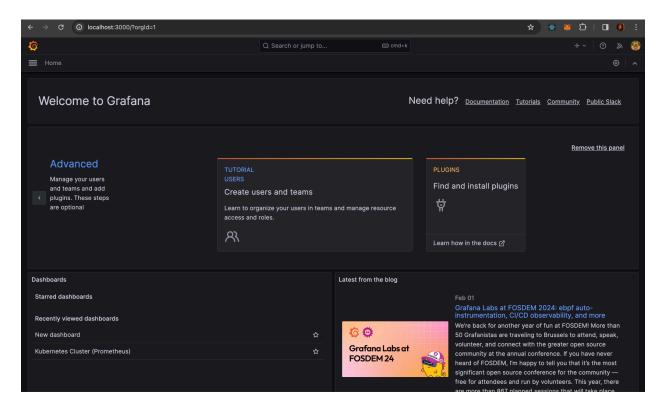
```
aratrika@Aratrikas-MacBook-Air ~ % kubectl get pods
NAME
                                                          READY
                                                                   STATUS
                                                                                         RESTARTS
                                                                                                        AGE
dapp-6596849f7c-v6gt8
                                                          1/1
1/1
                                                                                        3 (20h ago)
3 (20h ago)
                                                                                                        24h
                                                                   Running
ganache-75b5ff5b44-9zstr
                                                                   Running
                                                                                                        26h
mongodb-0
                                                          1/1
                                                                   Running
                                                                                           (20h ago)
                                                                                                        26h
prometheus-alertmanager-0
                                                          0/1
                                                                   ContainerCreating
                                                                                                        16s
prometheus-kube-state-metrics-745b475957-fg7zd
                                                          0/1
                                                                   ContainerCreating
                                                                                                        16s
{\tt prometheus-prometheus-node-exporter-v85hk}
                                                          1/1
                                                                   Running
                                                                                                        16s
prometheus-prometheus-pushgateway-6ccd698d79-fw16m
                                                          0/1
                                                                   Running
                                                                                                        16s
prometheus-server-bc7ccb595-jlfwt
                                                          0/2
                                                                   ContainerCreating
                                                                                                        16s
react-56dcf7b8f4-xxg97
                                                                                         3 (20h ago)
                                                                   Running
aratrika@Aratrikas-MacBook-Air ~ % kubectl get svc
NAME
                                                          CLUSTER-IP
                                                                             EXTERNAL-IP
                                                                                            PORT(S)
                                                                                            4000:30678/TCP
dapp
                                          LoadBalancer
                                                          10.102.94.247
                                                                             <pending>
                                                                                                               26h
                                                          10.97.49.1
10.96.0.1
10.103.177.242
ganache
                                         ClusterIP
                                                                             <none>
                                                                                            8545/TCP
                                                                                                               26h
                                                                                            443/TCP
                                         ClusterIP
                                                                                                               3d1h
kubernetes
                                                                             <none>
                                          ClusterIP
                                                                                            27017/TCP
                                                                                                               26h
                                                                             <none>
mongodb
prometheus-alertmanager
                                          ClusterIP
                                                          10.102.85.188
                                                                             <none>
                                                                                            9093/TCP
                                                                                                               28s
prometheus-alertmanager-headless
                                          ClusterIP
                                                                                            9093/TCP
                                                                                                               28s
                                                          None
prometheus-kube-state-metrics
                                          ClusterIP
                                                          10.99.239.41
                                                                             <none>
                                                                                            8080/TCP
                                                                                                               28s
                                                          10.107.126.241
10.98.151.171
prometheus-prometheus-node-exporter
                                         ClusterIP
                                                                             <none>
                                                                                            9100/TCP
                                                                                                               28s
prometheus-prometheus-pushgateway
prometheus-server
                                          ClusterIP
                                                                                            9091/TCP
                                                                             <none>
                                                                                                               28s
                                                          10.100.249.229
                                                                                            80/TCP
                                          ClusterIP
                                                                             <none>
                                                                                                               28s
                                          LoadBalancer
                                                          10.105.155.55
                                                                             <pending>
                                                                                            3000:31236/TCP
react
```

```
aratrika@Aratrikas-MacBook-Air ~ % kubectl port-forward svc/prometheus-server-ext 9090:80
Forwarding from 127.0.0.1:9090 -> 9090
Forwarding from [::1]:9090 -> 9090
Handling connection for 9090
Handling connection for 9090
```

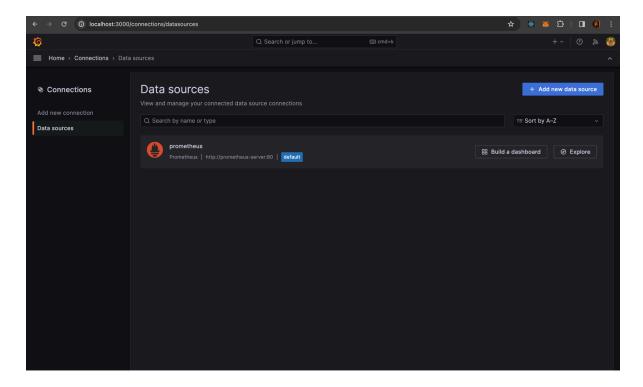


2. Install Grafana

[aratrika@Aratrikas-MacBook-Air ~ % kubectl port-forward svc/grafana-ext 3000:80
Forwarding from 127.0.0.1:3000 -> 3000
Forwarding from [::1]:3000 -> 3000
Handling connection for 3000



3. Connect Prometheus as Data source to Grafana



4. Custom dashboard with 3 visualizations

