
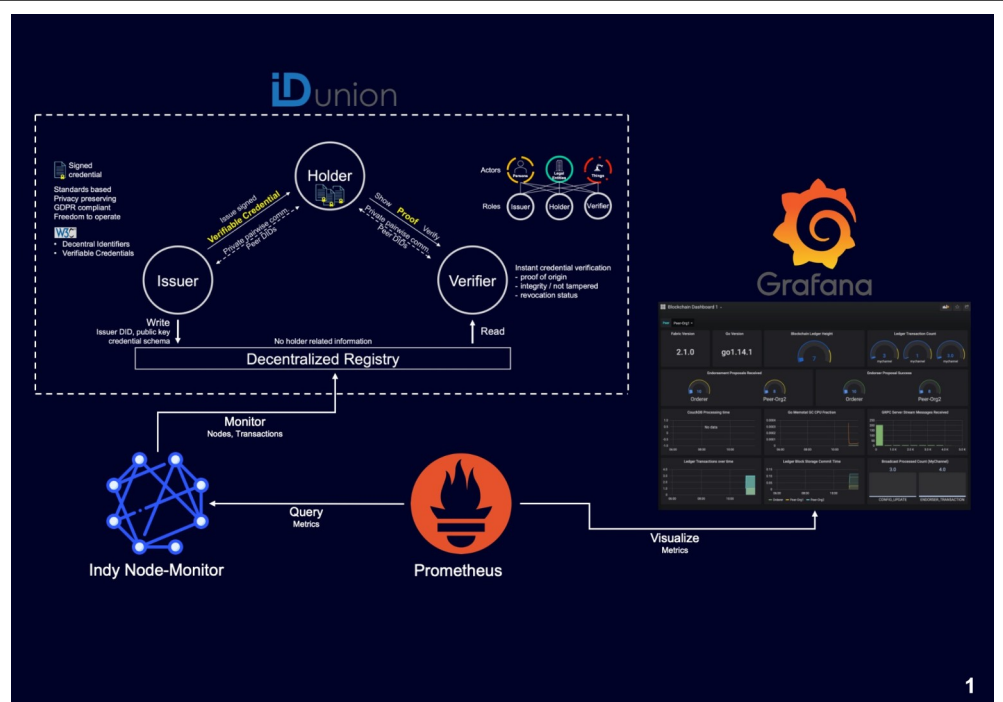


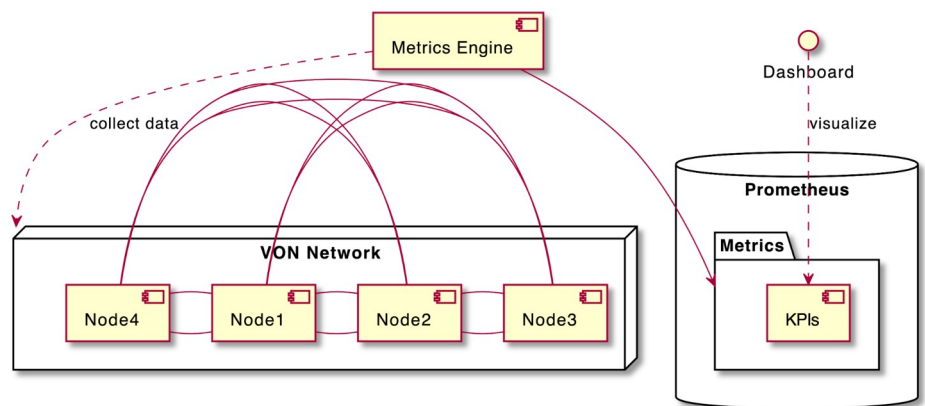
AMOS SS2022 Project 6 IDunion Blockchain Dashboard

Project name	IDunion Blockchain Dashboard
Project mission	In the interest of our industry partner the mission is to identify data of possible interest and display it in a dashboard. By displaying the data in the dashboard it is easy and intuitive to get the impression of the network activity and ledger status. Based on the displayed information the industry partner can optimize it's businesses.
Industry partner	Siemens AG
Team logo	
Project summary	<p>We have started with the set up of the toolchain and managed to run a IDunion test network on our machines. Therefore not only the blockchain was set up, but the database Prometheus and dashboard software Grafana have been installed. In the end of the first half the toolchain was running including the test network, Indy Node Monitor software, the database and dashboard. First data was collected and analyzed.</p> <p>In order to support reproduce ability and allow a fast and easy start-up of the implementation the environment was encapsulated in a container environment and configuration scripts define the startup. Moreover the metrics engine for analyzing the network with the blockchain was extended by a new key performance indicator.</p> <p>After the implementation of the toolchain and metrics engine, the dashboard was created and several functionality has been implemented. It is possible to filter data by time, change the dashboard by role, and send alert messages via MS teams. Overall the dashboard is displaying the collected data in a reasonable fashion.</p>

Project illustration



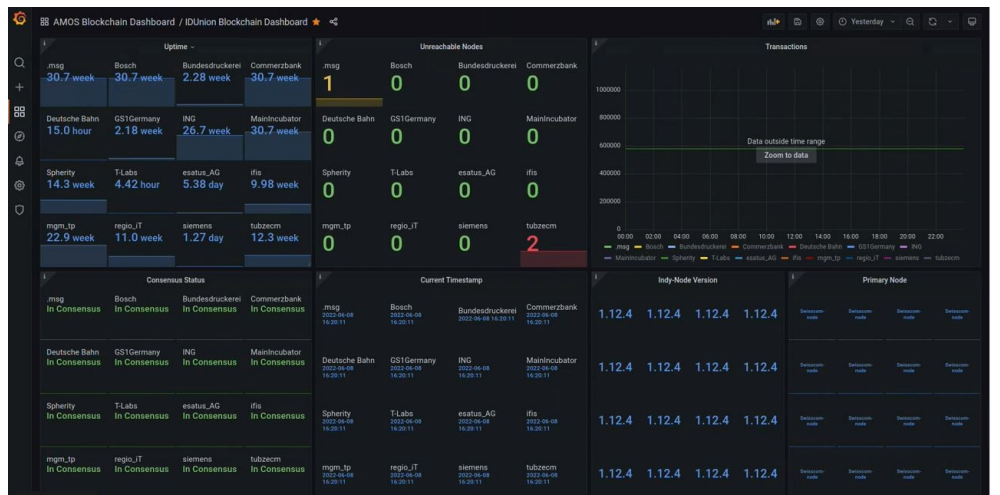
Runtime Components



2

```
Activities Terminal Junit 2022-10-30 18:38
```

```
jllian@jllian-desktop: ~/amos2022ss06-k8son-blockchain-d...  
ed, check your grafana.ini config file's [smtp] section"  
grafana | logger-context traceID=00000000000000000000000000000000 user=idi  
orgId=1 uname=admin t=2022-07-22T16:25:14.11+0000 lvl=info msg="Request complet  
ed" method=POST path=/api/alertmanager/grafana/config/api/v3/alerts status=202 f  
remote_addr=172.18.0.1 time_ms=3 duration=3.47219ms lit=0x referer="http://lo  
calhost:3000/alerting/notifications/receivers/slack/edit?alertmanager-grafana-t  
racing=00000000000000000000000000000000"  
grafana | ! logger=alertmanager.org:1 level=error component=dispatcher msg=  
Notify for alerts failed' num_alerts=2 err='grafana-default-email[0]: noti  
fy retry canceled due to unrecoverable error after 1 attempts: SMTP not configur  
ed, check your grafana.ini config file's [smtp] section"  
grafana | ! logger=alertmanager.org:1 level=error component=dispatcher msg=  
Notify for alerts failed' num_alerts=2 err='grafana-default-email[0]: noti  
fy retry canceled due to unrecoverable error after 1 attempts: SMTP not configur  
ed, check your grafana.ini config file's [smtp] section"  
grafana | ! logger-context traceID=00000000000000000000000000000000 user=idi  
orgId=1 uname=admin t=2022-07-22T16:35:32.09+0000 lvl=info msg="Request complet  
ed" method=GET path=/api/live/liveness/status remote_addr=172.18.0.1 time_ms=0 durat  
ion=70ns http_status=referer=traceID=00000000000000000000000000000000"  
grafana | ! logger=alertmanager.org:1 level=error component=dispatcher msg=  
Notify for alerts failed' num_alerts=2 err='grafana-default-email[0]: noti  
fy retry canceled due to unrecoverable error after 1 attempts: SMTP not configur  
ed, check your grafana.ini config file's [smtp] section"  
|  
  
Terminal  
ts-2022-07-22T16:38:52.956Z caller=node_exporter.go:182 Level=Info msg="Starting  
node_exporter" version=1.3.1, branch=HEAD, revision=a2321e7b94d6dcff72  
6873612bcdf7c5dc42bb65)"  
ts-2022-07-22T16:38:52.956Z caller=node_exporter.go:183 Level=Info msg="Build co  
ntext" build_context="(go-golang.17.3, usr=root@a23aaaf5252c, date=202211205:11:09:  
49)"  
ts-2022-07-22T16:38:52.956Z caller=node_exporter.go:188 Level=Info msg="Enabled  
collectors"  
ts-2022-07-22T16:38:52.956Z caller=node_exporter.go:115 Level=Info collector=text  
file  
ts-2022-07-22T16:38:52.956Z caller=node_exporter.go:199 Level=Info msg="Listenin  
g on" address=:9100  
ts-2022-07-22T16:38:52.956Z caller=ats_config.go:195 Level=Info msg="TLS is dls  
abled." http=false
```



Team photo



Project repository

<https://github.com/amosproj/amos2022ss06-idunion-blockchain-dashboard>

Additional information