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Accomplishments after 4th Report:

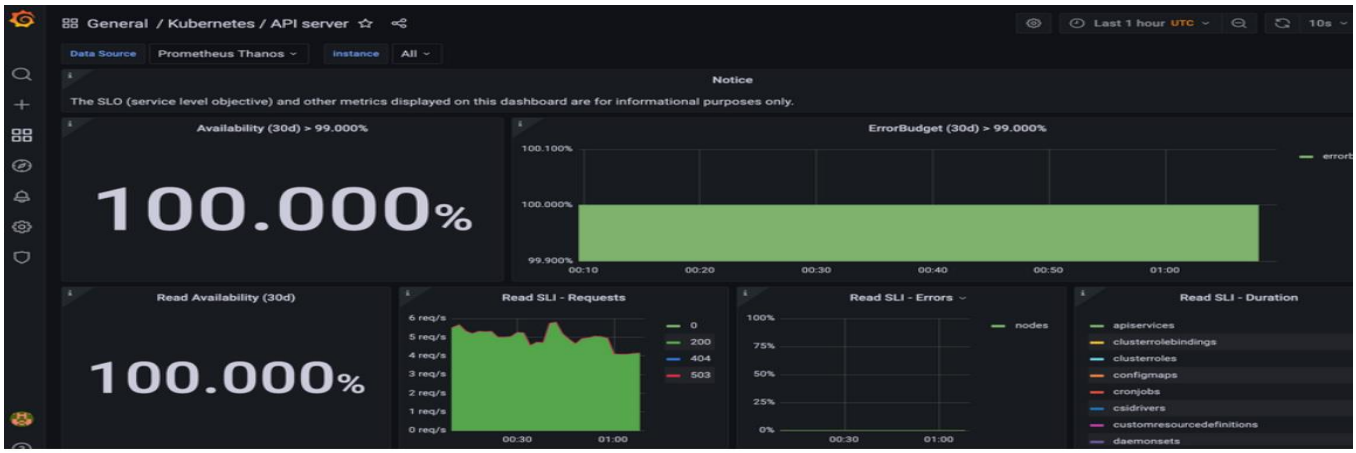
For this week my task was to design an external database storage that can log the data in a time series manner. After many research and documentation reading I have firured out that Thanos is a best open source Database storage for our project. It work with almost all Cloud proiveder but I configured in in Azure: Store Prometheus Metrics with Thanos, Azure Storage and Azure Kubernetes Service (AKS). First, looking at a file called **prometheus.yaml** and hier configuring and connecting to Azure account. And another cloud creating the **thanos.yaml** file locally as follows:

```
# thanos.yaml
type: AZURE
config:
  storage_account: '<storage-account-ali>'
  storage_account_key: '<5aw85lkjn562389>'
  container: 'metrics'
```

output:

```
level=debug ts=2022-01-01T19:56:05.927270012Z caller=main.go:65 msg="maxprocs: Updating GOMAXPROCS=[1]: using minimum allowed GOMAXPROCS"
ts=2022-01-01T19:56:05.928679219Z caller=log.go:168 level=debug msg="Lookback delta is zero, setting to default value" value=5m0s
level=info ts=2022-01-01T19:56:05.932400335Z caller=options.go:27 protocol=gRPC msg="disabled TLS, key and cert must be set to enable"
level=info ts=2022-01-01T19:56:05.93349084Z caller=query.go:618 msg="starting query node"
level=debug ts=2022-01-01T19:56:05.933743641Z caller=endpointset.go:320 component=endpointset msg="starting to update API endpoints" cachedEndp
oints=0
```

Dashboard for API Server in Grafana:



Goals for the Next Week:

- Cooperating with other group memmbers
- Writing the final project with full reports with other team members

Anticipated Obstacles:

- How to train these data for Machine Learning? How much time and effort it needs to success?