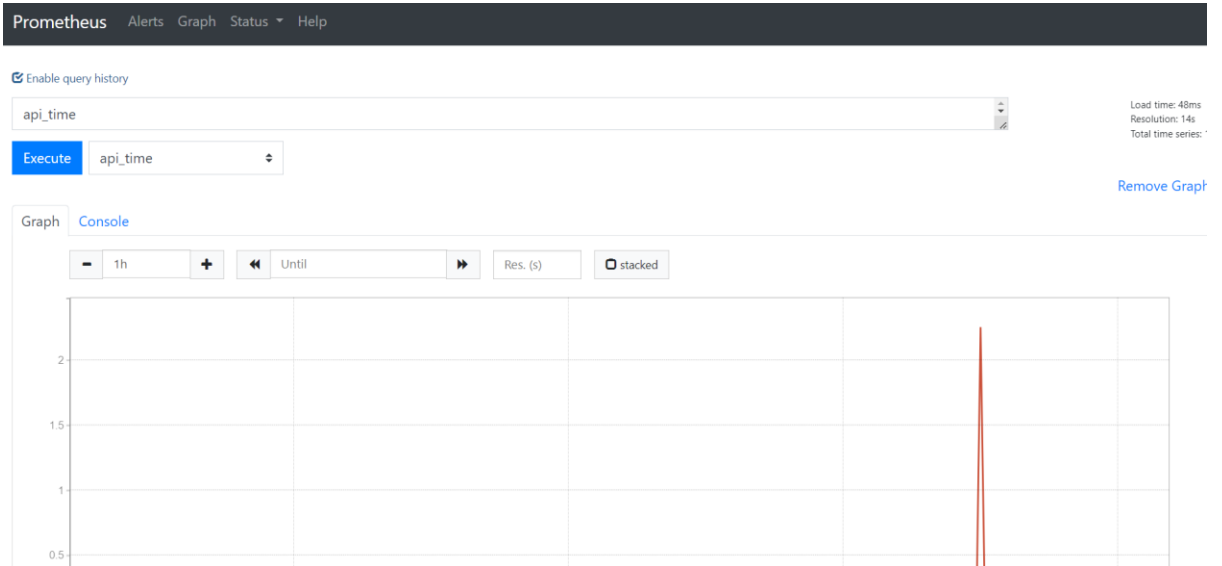


# ASSIGNMENT 7

KEERTHANA S

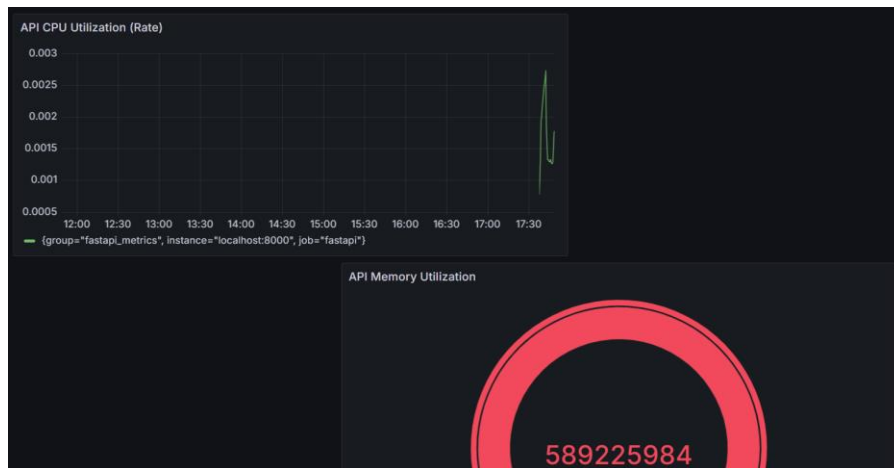
ED19B014

- Run Prometheus: `prometheus --config.file="/etc/prometheus/prometheus.yml"`



Grafana:





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- Github: [https://github.com/Keerthana-Senthil/Big\\_data](https://github.com/Keerthana-Senthil/Big_data)
- Code used:
- To modify prometheus file: `sudo nano /path/to/prometheus.yml`
- To start Prometheus: `prometheus --config.file=/etc/prometheus/prometheus.yml`
- `docker build -t fastapi_app .`
- `docker run -d -p 8000:8000 fastapi_app`
- Rate of API network I/O bytes: `rate(http_request_size_bytes_created[5m]) - rate(http_response_size_bytes_created[5m])`
- API network I/O bytes : `http_request_size_bytes_total - http_response_size_bytes_total`
- API CPU Utilization (Rate): `rate(process_cpu_seconds_total{job="fastapi", instance="localhost:8000"}[5m])`
- API Memory Utilization: `process_resident_memory_bytes{instance="localhost:8000", job="fastapi"}`
- `api_time: api_time`
- `tl_time: tl_time`
- `input_length: input_length`
- `api_usage: sum(api_usage_total) by (client_ip)`