Lesson Description - Pushing Data to Pushgateway

Prometheus Pushgateway provides a push-based method for sending metrics to Prometheus for special cases that need such a method. In this lesson, we explore the process of pushing metrics to Prometheus via Pushgateway. We demonstrate the process of sending metric data through Pushgateway using the Pushgateway API.

Relevant Documentation

- Pushing Metrics
- Prometheus Pushgateway

Lesson Reference

Log in to your Prometheus/Pushgateway server.

Make a curl request to send some metrics to the Pushgateway API:

```
echo "value_of_pi 3.14" | curl --data-binary @- http://localhost:
9091/metrics/job/my_job
```

Query the Pushgateway metrics endpoint to see the metric you submitted:

```
curl localhost:9091/metrics
```

Make another curl request with a more complex set of metrics, this time specifying an instance:

```
cat << EOF | curl --data-binary @- http://localhost:9091/metrics/job
/my_job/instance/my_instance
# TYPE temperature gauge
temperature{location="room1"} 31
temperature{location="room2"} 33
# TYPE my_metric gauge
# HELP my_metric An example.
my_metric 5
EOF
```

Check the Pushgateway metrics endpoint again:

```
curl localhost:9091/metrics
```

Look for your newly pushed metrics in Prometheus using the expression browser (http://<PROMETHEUS_SERVER_PUBLIC_IP>:9090). Run some queries to locate your data:

```
value_of_pi
```

```
temperature
```

```
my_metric
```