## **Chapter - 8: Celery Management using Flower**

Flower is an open source web application for monitoring and managing celery clusters. It provides real time information about the status of celery workers and tasks

Once the flower is installed, we can connect the same to the message broker to get the information about the celery workeres and tasks

celery --broker=amqp://guest:guest@localhost:5672// flower

C Flower Workers Tasks Broker Documentation							0
Show 15 vorkers	Search:						
Worker	Status	Active	Processed	Failed	Succeeded	Retried	Load Average
celery@Deepaks-MacBook-Pro.local	Online	0	0	0	0	0	1.2, 1.5, 1.82
Total		0	0	0	0	0	
Showing 1 to 1 of 1 workers Previous 1 Next							

Flower Dashboard

Once we run the tasks, then all tasks will be visible in the flower



Tasks in Flower

## **Using Prometheus**

Prometheus is a time series database, we can store the flower events in this database to be able to revist the same later

Here is the config file which is needed for the Prometheus

```
# my global config
global:
  scrape_interval: 15s # Set the scrape interval to every 15 seconds. De
evaluation_interval: 15s # Evaluate rules every 15 seconds. The defaul
# scrape_timeout is set to the global default (10s).
# Alertmanager configuration
alerting:
  alertmanagers:
     - static_configs:
          - targets:
            # - alertmanager:9093
# Load rules once and periodically evaluate them according to the global
rule_files:
    # - "first_rules.yml"
  # - "second_rules.yml"
# A scrape configuration containing exactly one endpoint to scrape:
# Here it's Prometheus itself.
scrape_configs:
  # The job name is added as a label `job=<job_name>` to any timeseries
   - job_name: "prometheus"
     # metrics_path defaults to '/metrics'
     # scheme defaults to 'http'.
  static_configs:
    - targets: ["localhost:9090"]
- job_name: flower
     static_configs:
    - targets: ['localhost:5555']
```

Prometheus Config File

## **Using Grafana**

We can use grafana using the docker image. Grafana can be used to better visualize the data from the Prometheus

```
**docker run -d -p 3000:3000 --name=grafana grafana/grafana-enterprise**
```

if we're using docker then the Prometheus URL will be

http://host.docker.internal:9090/