Tópicos Especiais em Banco de Dados Trabalho Final

Ferramenta de monitoramento de geolocalização do BRT Rio

Cláudio Santos e Jonathan Augusto

Ferramenta de monitoramento de geolocalização do BRT



- Frota de 440 ônibus
- 440mil passageiros atendidos por dia

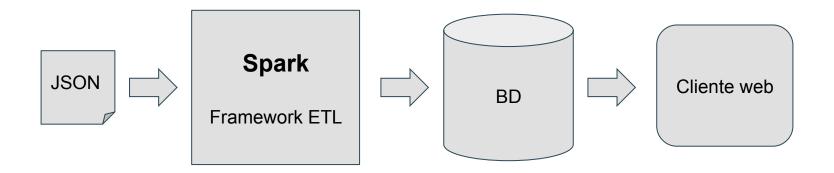
(fonte: brt.rio)

Feed JSON atualizado a cada
 1min, tamanho 150kB (aprox.)

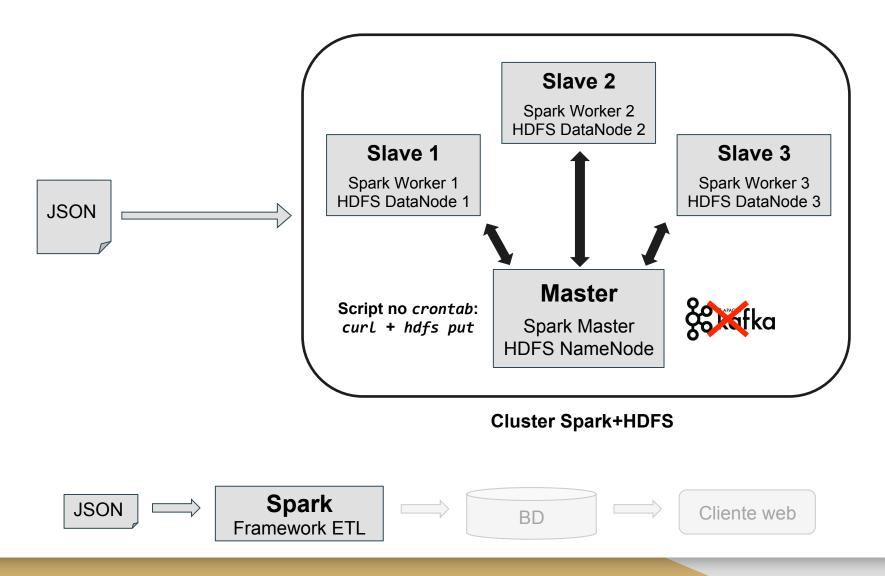
data.rio

linc.prefeitura.rio

Proposta de trabalho

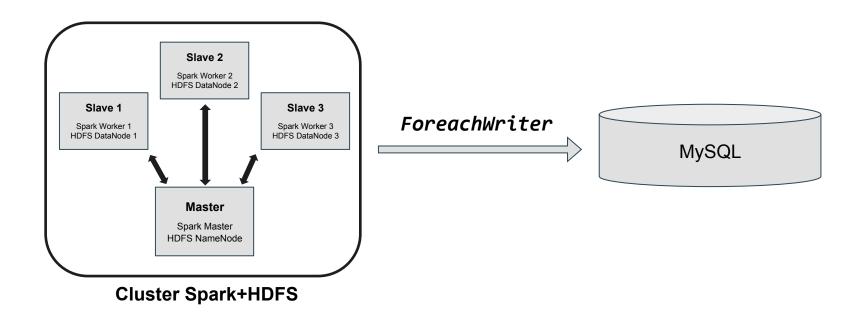


- Posicionamento lat/lon no mapa
- Filtro por linha
- Heatmap de velocidade diário/semanal



```
# Edit this file to introduce tasks to be run by cron.
# Each task to run has to be defined through a single line
# indicating with different fields when the task will be run
# and what command to run for the task
# To define the time you can provide concrete values for
# minute (m), hour (h), day of month (dom), month (mon),
# and day of week (dow) or use '*' in these fields (for 'any').#
# Notice that tasks will be started based on the gron's system
# daemon's notion of time and timezones.
# Output of the crontab jobs (including errors) is sent through
# email to the user the crontab file belongs to (unless redirected).
# For example, you can run a backup of all your user accounts
# at 5 a.m every week with:
# 0 5 * * 1 tar -zcf /yar/backups/home.tgz /home/
# For more information see the manual pages of grontab(5) and gron(8)
# m h dom mon dow
* * * * * curl -N http://webapibrt.rio.rj.gov.br/api/vl/brt | bin/hdfs dfs -put - data/brt $(date +\%Y\%m\%d\%H\%M\%S).json
```









Spark Master at spark://192.168.21.2:7077

URL: spark://192.168.21.2:7077

REST URL: spark://192.168.21.2:6066 (cluster mode)

Alive Workers: 3

Cores in use: 3 Total, 3 Used

Memory in use: 3.0 GB Total, 3.0 GB Used Applications: 1 Running, 68 Completed

Drivers: 0 Running, 4 Completed

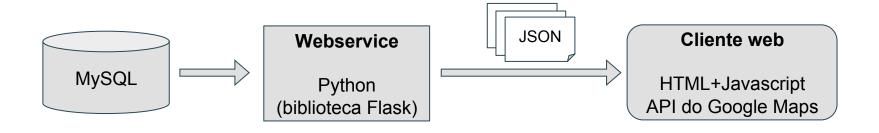
Status: ALIVE

Workers

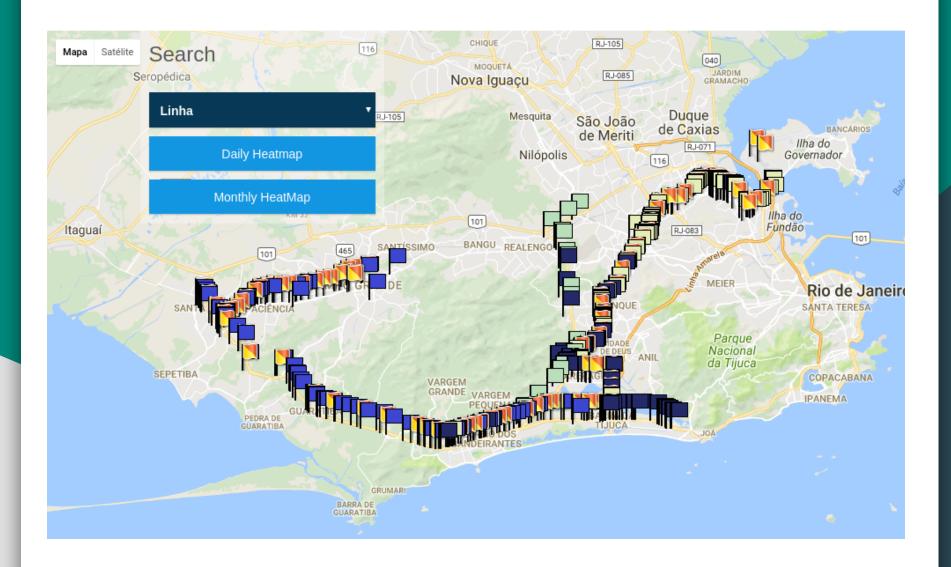
Worker Id	Address	State	Cores	Memory	
worker-20170817175907-192.168.21.12-32985	192.168.21.12:32985	ALIVE	1 (1 Used)	1024.0 MB (1024.0 MB Used)	
worker-20170817175907-192.168.21.13-36216	192.168.21.13:36216	ALIVE	1 (1 Used)	1024.0 MB (1024.0 MB Used)	
worker-20170817175908-192.168.21.11-43508	192.168.21.11:43508	ALIVE	1 (1 Used)	1024.0 MB (1024.0 MB Used)	

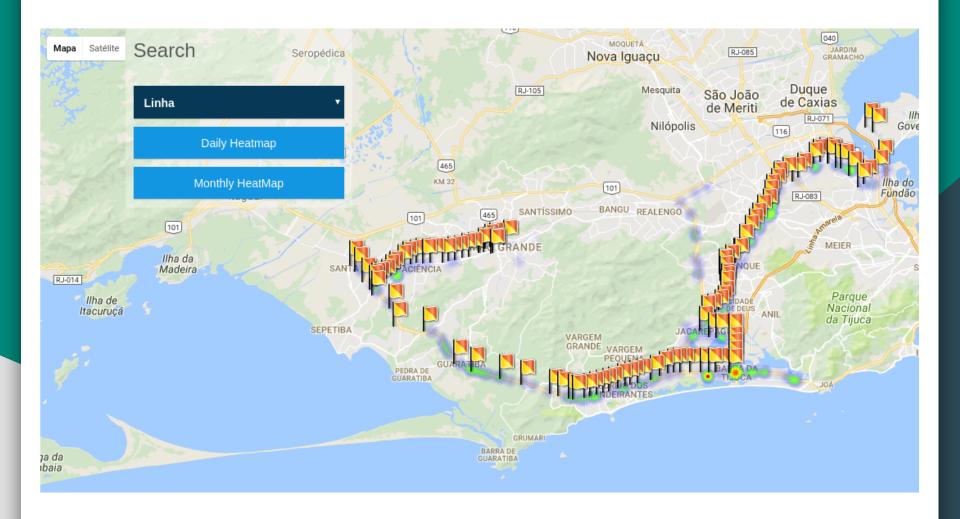
Running Applications

Application ID		Name	Cores	Memory per Executor	Submitted Time	User	State	Duration
app-20170818221152-0068	(kill)	BRTStreamReceiver	3	1024.0 MB	2017/08/18 22:11:52	ubuntu	RUNNING	59,5 h









Teste do sistema

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csantos@cos.ufrj.br jonathan@cos.ufrj.br