Николай Старостин 38 4 спринт

Консоль

У команды есть подозрение, что система мониторинга неверно учитывает 500-е ошибки. Найди все логи за февраль 2020 года, которые содержат 500 в массе запроса (последние 4 цифры в строке лога)

Задание 1

Команда или последовательность команд, которой удалось получить нужные логи: grep -R -E "500.?\$" ~/logs/2020/2

Логи:

/home/morty/logs/2020/2/apache_2020-02-07.txt:115.219.109.40 - - [7/2/2020:21:36:04 +0000] "PUT /users HTTP/1.1" 401 4500

/home/morty/logs/2020/2/apache_2020-02-07.txt:123.88.234.133 - - [7/2/2020:21:47:36 +0000] "POST /fieldsets HTTP/1.1" 200 5000

/home/morty/logs/2020/2/apache_2020-02-07.txt:93.241.210.116 - - [7/2/2020:21:58:22 +0000] "GET /auth HTTP/1.1" 201 2500

/home/morty/logs/2020/2/apache_2020-02-07.txt:238.181.47.48 - - [7/2/2020:22:05:59 +0000] "PUT /customers HTTP/1.1" 403 4500

/home/morty/logs/2020/2/apache_2020-02-07.txt:206.211.17.4 - - [7/2/2020:22:12:27 +0000] "PUT /playbooks HTTP/1.1" 403 4500

/home/morty/logs/2020/2/apache_2020-02-12.txt:135.167.192.159 - - [12/2/2020:21:35:55 +0000] "PUT /events HTTP/1.1" 204 3500

/home/morty/logs/2020/2/apache_2020-02-12.txt:24.148.223.215 - - [12/2/2020:21:39:37 +0000] "DELETE /auth HTTP/1.1" 301 5000

/home/morty/logs/2020/2/apache_2020-02-11.txt:159.45.86.118 - - [11/2/2020:21:47:57 +0000] "POST /alerts HTTP/1.1" 403 2500

/home/morty/logs/2020/2/apache_2020-02-11.txt:228.38.237.126 - - [11/2/2020:22:06:14 +0000] "PUT /parsers HTTP/1.1" 204 2500

/home/morty/logs/2020/2/apache_2020-02-01.txt:72.117.196.205 - - [1/2/2020:21:51:37 +0000] "PUT /users HTTP/1.1" 400 4500

/home/morty/logs/2020/2/apache_2020-02-03.txt:113.206.161.63 - - [3/2/2020:21:54:25 +0000] "PUT /alerts HTTP/1.1" 401 2500

/home/morty/logs/2020/2/apache_2020-02-03.txt:204.183.88.223 - - [3/2/2020:22:06:26 +0000] "DELETE /customers HTTP/1.1" 403 4500

/home/morty/logs/2020/2/apache_2020-02-03.txt:36.28.7.18 - - [3/2/2020:22:08:17 +0000] "POST /users HTTP/1.1" 503 3500

/home/morty/logs/2020/2/apache_2020-02-02.txt:219.236.254.192 - - [2/2/2020:21:58:20 +0000] "PATCH /parsers HTTP/1.1" 200 5000

/home/morty/logs/2020/2/apache_2020-02-02.txt:194.48.251.24 - - [2/2/2020:22:04:44 +0000] "GET /auth HTTP/1.1" 400 2500

/home/morty/logs/2020/2/apache_2020-02-14.txt:151.192.138.203 - - [14/2/2020:21:45:38 +0000] "PATCH /auth HTTP/1.1" 300 4500

/home/morty/logs/2020/2/apache_2020-02-14.txt:128.20.205.110 - - [14/2/2020:22:12:15 +0000] "PATCH /lists HTTP/1.1" 204 4500

```
/home/morty/logs/2020/2/apache_2020-02-08.txt:46.20.41.236 - - [8/2/2020:21:43:57 +0000] "POST /events HTTP/1.1" 300 3500
```

/home/morty/logs/2020/2/apache_2020-02-08.txt:223.24.178.30 - - [8/2/2020:21:55:52 +0000] "GET /alerts HTTP/1.1" 404 5000

/home/morty/logs/2020/2/apache_2020-02-08.txt:228.96.134.28 - - [8/2/2020:21:58:05 +0000] "PATCH /parsers HTTP/1.1" 204 3500

/home/morty/logs/2020/2/apache_2020-02-08.txt:69.183.68.32 - - [8/2/2020:22:02:51 +0000] "PUT /customers HTTP/1.1" 301 4500

/home/morty/logs/2020/2/apache_2020-02-08.txt:87.28.205.10 - - [8/2/2020:22:08:52 +0000] "PATCH /auth HTTP/1.1" 401 3500

/home/morty/logs/2020/2/apache_2020-02-08.txt:156.20.56.221 - - [8/2/2020:22:12:11 +0000] "POST /events HTTP/1.1" 400 3500

/home/morty/logs/2020/2/apache_2020-02-10.txt:73.222.172.54 - - [10/2/2020:21:43:56 +0000] "POST /customers HTTP/1.1" 503 3500

/home/morty/logs/2020/2/apache_2020-02-10.txt:229.212.154.136 - - [10/2/2020:21:44:13 +0000] "POST /alerts HTTP/1.1" 300 2500

/home/morty/logs/2020/2/apache_2020-02-10.txt:70.47.68.226 - - [10/2/2020:22:12:22 +0000] "POST /customers HTTP/1.1" 301 4500

/home/morty/logs/2020/2/apache_2020-02-19.txt:116.47.146.170 - - [19/2/2020:21:45:56 +0000] "PUT /alerts HTTP/1.1" 500 5000

/home/morty/logs/2020/2/apache_2020-02-18.txt:26.210.114.177 - - [18/2/2020:21:35:30 +0000] "GET /events HTTP/1.1" 503 2500

/home/morty/logs/2020/2/apache_2020-02-18.txt:200.121.117.94 - - [18/2/2020:21:58:25 +0000] "POST /collectors HTTP/1.1" 401 2500

/home/morty/logs/2020/2/apache_2020-02-18.txt:203.225.189.203 - - [18/2/2020:22:12:22 +0000] "PUT /lists HTTP/1.1" 400 5000

/home/morty/logs/2020/2/apache_2020-02-15.txt:109.63.48.99 - - [15/2/2020:22:02:30 +0000] "PATCH /collectors HTTP/1.1" 200 2500

/home/morty/logs/2020/2/apache_2020-02-06.txt:117.207.164.42 - - [6/2/2020:22:08:07 +0000] "GET /auth HTTP/1.1" 403 5000

/home/morty/logs/2020/2/apache_2020-02-06.txt:190.90.158.108 - - [6/2/2020:22:14:11 +0000] "DELETE /alerts HTTP/1.1" 400 3500

/home/morty/logs/2020/2/apache_2020-02-09.txt:102.183.209.214 - - [9/2/2020:21:53:30 +0000] "GET /customers HTTP/1.1" 300 3500

/home/morty/logs/2020/2/apache_2020-02-09.txt:109.183.23.57 - - [9/2/2020:22:06:16 +0000] "PATCH /parsers HTTP/1.1" 503 3500

/home/morty/logs/2020/2/apache_2020-02-09.txt:82.106.89.96 - - [9/2/2020:22:13:51 +0000] "PUT /parsers HTTP/1.1" 400 4500

/home/morty/logs/2020/2/apache_2020-02-09.txt:192.230.9.247 - - [9/2/2020:22:14:15 +0000] "PUT /events HTTP/1.1" 301 3500

Задани 2

В системе есть баг. Он проявлялся с первого по девятое января 2020 года. Запросы на удаление /lists давали ошибки 500 и 503. Твоя задача — сохранить в отдельный файл логи, которые были записаны в этот период. Затем эти логи надо разложить по отдельным файлам: логи с одинаковой ошибкой положи в один файл Как это сделать: В домашней директории на удалённом сервере создай директорию bug2. Все запросы на удаление ресурса /lists, которые произошли в указанный период, положи в файл main.txt в директорию bug2. Внутри директории bug2 создай директорию testlogs. Внутри директории testlogs создай файлы для ошибок с номерами 500 и 503. Назови эти файлы 500.txt и 503.txt соответственно. В них собери логи с соответствующей ошибкой из файла main.txt.

В ответе приложи: 1. команды, которые создают директории bug2 и testlogs; 2. команду, которой ты выбираешь запросы за указанный период. Это те запросы, которыми ты отбираешь логи в файл main.txt; 3. команды, которыми ты кладёшь логи в файлы 500.txt и 503.txt из main.txt; 4. тексты файлов 500.txt и 503.txte 2

Команды, которые создают директории bug2 и testlog: mkdir bug2 mkdir -p bug2/testlog

Команда, которой выбираешь запросы за указанный период. Это те запросы, которыми ты отбираешь логи в файл main.txt:

grep -r '\[[1-9]/1/2020.*DELETE /lists' ~/logs/2020/1 > ~/bug2/main.txt

Команды, которыми ты кладешь логи в файлы 500.txt и 503.txt из main.txt: grep ".500" bug2/main.txt > bug2/testlog/500.txt

grep ".503" bug2/main.txt > bug2/testlog/503.txt

500.txt

/home/morty/logs/2020/1/apache_2020-01-01.txt:147.185.102.245 - - [1/1/2020:21:56:16 +0000] "DELETE /lists HTTP/1.1" 500 3446

/home/morty/logs/2020/1/apache_2020-01-01.txt:213.18.145.29 - - [1/1/2020:22:03:58 +0000] "DELETE /lists HTTP/1.1" 500 3401

/home/morty/logs/2020/1/apache_2020-01-06.txt:110.226.87.25 - - [6/1/2020:21:41:28 +0000] "DELETE /lists HTTP/1.1" 500 2678

/home/morty/logs/2020/1/apache_2020-01-06.txt:152.179.35.38 - - [6/1/2020:21:49:20 +0000] "DELETE /lists HTTP/1.1" 500 4038

/home/morty/logs/2020/1/apache_2020-01-06.txt:183.55.199.161 - - [6/1/2020:21:57:27 +0000] "DELETE /lists HTTP/1.1" 500 2983

/home/morty/logs/2020/1/apache_2020-01-06.txt:193.20.89.213 - - [6/1/2020:22:00:04 +0000] "DELETE /lists HTTP/1.1" 500 2337

/home/morty/logs/2020/1/apache_2020-01-09.txt:198.181.19.16 - - [9/1/2020:22:08:41 +0000] "DELETE /lists HTTP/1.1" 500 4498

/home/morty/logs/2020/1/apache_2020-01-05.txt:83.123.65.88 - - [5/1/2020:21:45:47 +0000] "DELETE /lists HTTP/1.1" 500 4538

/home/morty/logs/2020/1/apache_2020-01-05.txt:27.238.157.134 - - [5/1/2020:21:48:24 +0000] "DELETE /lists HTTP/1.1" 500 2264

/home/morty/logs/2020/1/apache_2020-01-05.txt:128.42.75.55 - - [5/1/2020:21:54:05 +0000] "DELETE /lists HTTP/1.1" 500 3639

/home/morty/logs/2020/1/apache_2020-01-07.txt:209.161.43.167 - - [7/1/2020:21:41:54 +0000] "DELETE /lists HTTP/1.1" 500 4546

/home/morty/logs/2020/1/apache_2020-01-07.txt:37.51.204.79 - - [7/1/2020:22:04:43 +0000] "DELETE /lists HTTP/1.1" 500 4196

/home/morty/logs/2020/1/apache_2020-01-02.txt:194.245.91.116 - - [2/1/2020:21:58:20 +0000] "DELETE /lists HTTP/1.1" 500 3346

/home/morty/logs/2020/1/apache_2020-01-02.txt:83.46.27.91 - - [2/1/2020:22:00:33 +0000] "DELETE /lists HTTP/1.1" 500 4635

/home/morty/logs/2020/1/apache_2020-01-02.txt:231.148.197.229 - - [2/1/2020:22:06:24 +0000] "DELETE /lists HTTP/1.1" 500 3156

/home/morty/logs/2020/1/apache_2020-01-04.txt:12.136.227.159 - - [4/1/2020:21:35:22 +0000] "DELETE /lists HTTP/1.1" 500 3368

/home/morty/logs/2020/1/apache_2020-01-04.txt:129.56.252.93 - - [4/1/2020:21:39:24 +0000] "DELETE /lists HTTP/1.1" 500 4128

/home/morty/logs/2020/1/apache_2020-01-04.txt:132.215.126.118 - - [4/1/2020:21:40:19 +0000] "DELETE /lists HTTP/1.1" 500 3366

/home/morty/logs/2020/1/apache_2020-01-04.txt:67.178.31.1 - - [4/1/2020:21:43:52 +0000] "DELETE /lists HTTP/1.1" 500 2366

/home/morty/logs/2020/1/apache_2020-01-04.txt:146.29.129.61 - - [4/1/2020:21:45:39 +0000] "DELETE /lists HTTP/1.1" 500 2447

/home/morty/logs/2020/1/apache_2020-01-04.txt:223.92.38.69 - - [4/1/2020:22:08:22 +0000] "DELETE /lists HTTP/1.1" 500 4386

/home/morty/logs/2020/1/apache_2020-01-03.txt:96.78.191.98 - - [3/1/2020:21:50:23 +0000] "DELETE /lists HTTP/1.1" 500 4530

/home/morty/logs/2020/1/apache_2020-01-08.txt:137.16.176.177 - - [8/1/2020:22:06:10 +0000] "DELETE /lists HTTP/1.1" 500 4818

/home/morty/logs/2020/1/apache_2020-01-08.txt:9.208.230.202 - - [8/1/2020:22:11:48 +0000] "DELETE /lists HTTP/1.1" 500 3100

503.txt.

/home/morty/logs/2020/1/apache_2020-01-01.txt:19.160.250.159 - - [1/1/2020:21:41:44 +0000] "DELETE /lists HTTP/1.1" 503 4750

/home/morty/logs/2020/1/apache_2020-01-01.txt:144.27.121.7 - - [1/1/2020:21:49:31 +0000] "DELETE /lists HTTP/1.1" 503 4277

/home/morty/logs/2020/1/apache_2020-01-01.txt:3.206.159.146 - - [1/1/2020:21:51:54 +0000] "DELETE /lists HTTP/1.1" 503 4915

/home/morty/logs/2020/1/apache_2020-01-01.txt:194.84.118.234 - - [1/1/2020:22:08:37 +0000] "DELETE /lists HTTP/1.1" 503 3791

/home/morty/logs/2020/1/apache_2020-01-09.txt:120.245.57.164 - - [9/1/2020:21:51:54 +0000] "DELETE /lists HTTP/1.1" 503 2794

/home/morty/logs/2020/1/apache_2020-01-09.txt:234.142.98.227 - - [9/1/2020:22:04:39 +0000] "DELETE /lists HTTP/1.1" 503 3735

/home/morty/logs/2020/1/apache_2020-01-05.txt:237.5.185.3 - - [5/1/2020:21:40:13 +0000] "DELETE /lists HTTP/1.1" 503 4136

/home/morty/logs/2020/1/apache_2020-01-05.txt:200.199.223.244 - - [5/1/2020:21:50:19 +0000] "DELETE /lists HTTP/1.1" 503 3720

/home/morty/logs/2020/1/apache_2020-01-07.txt:88.89.12.250 - - [7/1/2020:21:37:52 +0000] "DELETE /lists HTTP/1.1" 503 4832

/home/morty/logs/2020/1/apache_2020-01-07.txt:156.143.245.173 - - [7/1/2020:21:48:03 +0000] "DELETE /lists HTTP/1.1" 503 2520

/home/morty/logs/2020/1/apache_2020-01-07.txt:4.98.74.61 - - [7/1/2020:21:48:12 +0000] "DELETE /lists HTTP/1.1" 503 2291

/home/morty/logs/2020/1/apache_2020-01-02.txt:196.214.162.172 - - [2/1/2020:21:57:38 +0000] "DELETE /lists HTTP/1.1" 503 3741

/home/morty/logs/2020/1/apache_2020-01-02.txt:109.34.83.0 - - [2/1/2020:22:08:33 +0000] "DELETE /lists HTTP/1.1" 503 2354

/home/morty/logs/2020/1/apache_2020-01-02.txt:144.210.73.130 - - [2/1/2020:22:12:40 +0000] "DELETE /lists HTTP/1.1" 503 4554

/home/morty/logs/2020/1/apache_2020-01-04.txt:110.123.248.237 - - [4/1/2020:21:46:28 +0000] "DELETE /lists HTTP/1.1" 503 3666

/home/morty/logs/2020/1/apache_2020-01-04.txt:142.26.155.9 - - [4/1/2020:21:54:30 +0000] "DELETE /lists HTTP/1.1" 503 4927

/home/morty/logs/2020/1/apache_2020-01-04.txt:242.124.191.149 - - [4/1/2020:21:58:46 +0000] "DELETE /lists HTTP/1.1" 503 3681

/home/morty/logs/2020/1/apache_2020-01-04.txt:110.97.214.228 - - [4/1/2020:21:58:52 +0000] "DELETE /lists HTTP/1.1" 503 3557

/home/morty/logs/2020/1/apache_2020-01-03.txt:21.137.106.32 - - [3/1/2020:21:48:20 +0000] "DELETE /lists HTTP/1.1" 503 4335

/home/morty/logs/2020/1/apache_2020-01-03.txt:199.241.232.242 - - [3/1/2020:21:58:01 +0000] "DELETE /lists HTTP/1.1" 503 3502

/home/morty/logs/2020/1/apache_2020-01-03.txt:52.77.221.51 - - [3/1/2020:22:06:15 +0000] "DELETE /lists HTTP/1.1" 503 4392

/home/morty/logs/2020/1/apache_2020-01-03.txt:73.51.7.29 - - [3/1/2020:22:09:01 +0000] "DELETE /lists HTTP/1.1" 503 3872

/home/morty/logs/2020/1/apache_2020-01-03.txt:81.20.165.70 - - [3/1/2020:22:11:01 +0000] "DELETE /lists HTTP/1.1" 503 3325

/home/morty/logs/2020/1/apache_2020-01-08.txt:180.150.222.142 - - [8/1/2020:21:41:43 +0000] "DELETE /lists HTTP/1.1" 503 4975

/home/morty/logs/2020/1/apache_2020-01-08.txt:244.190.76.89 - - [8/1/2020:21:46:13 +0000] "DELETE /lists HTTP/1.1" 503 2015

/home/morty/logs/2020/1/apache_2020-01-08.txt:133.169.105.213 - - [8/1/2020:21:47:38 +0000] "DELETE /lists HTTP/1.1" 503 3369

/home/morty/logs/2020/1/apache_2020-01-08.txt:247.226.78.194 - - [8/1/2020:21:50:04 +0000] "DELETE /lists HTTP/1.1" 503 2968

/home/morty/logs/2020/1/apache_2020-01-08.txt:192.148.191.93 - - [8/1/2020:22:07:39 +0000] "DELETE /lists HTTP/1.1" 503 3090

SQL

Описание В заданиях используется база данных chicago_taxi (описание таблиц, схемы можно посмотреть в задании четвертого спринта)

База данных

Задание 1

Посчитай, сколько всего уникальных погодных явлений в таблице weather records

description_uniq_cnt
----19
(1 row)

Запрос, которым тебе удалось решить задачу. SELECT COUNT(DISTINCT description) AS description_uniq_cnt FROM weather_records;

Задание 2

Вывести первые 10 компаний без повторений, которые не содержат в названии "Taxi" и "Chicago"

company_name -----

Metro Group

Blue Diamond

3556 - 36214 RC Andrews Cab

Norshore Cab

3721 - Santamaria Express, Alvaro Santamaria

2809 - 95474 C & D Cab Co Inc.

2241 - 44667 - Felman Corp, Manuel Alonso

3620 - 52292 David K. Cab Corp.

2823 - 73307 Lee Express Inc

6057 - 24657 Richard Addo

(10 rows)

Запрос, которым тебе удалось решить задачу.

SELECT DISTINCT company_name AS company_name FROM cabs WHERE NOT (company_name LIKE '%Chicago%' OR company_name LIKE '%Taxi%') LIMIT 10;

Задание 3

Посчитать количество поездок для каждого такси за 5 ноября 2017 года. Отсортировать значения по возрастанию. Вывести список такси, которые совершили не менее 40 поездок

cab_id cnt		
+		
4695	40	
3124	40	
1780	40	
719 40		
4137	41	
4189	41	
4100	42	
1945	43	
1503	43	
4039	43	
4806	44	
1981	44	
803 45		
4281	46	
2451	47	
1599	47	
2384	48	
(17 rows)		

Запрос, которым удалось решить задачу.

SELECT cab_id, COUNT(trip_id) AS cnt

FROM trips

WHERE DATE(start_ts) = '2017-11-05'

GROUP BY cab_id

HAVING COUNT(trip_id) >= 40

ORDER BY cnt ASC;

Задание 4

Узнать районы города, где завершались поездки 16 и 17 ноября 2017 года. Получить выборку с количеством поездок в эти районы

name	cnt
	-+
Loop	29559
River North	23279
Streeterville	15811
West Loop	14809
O'Hare	6804
Lake View	5757
Grant Park	4962
Gold Coast	3682
Lincoln Park	3153
East Village	2762
Sheffield & DeP	aul 2749
Museum Campu	us 2147
Garfield Ridge	2139
Little Italy, UIC	2074
Uptown	1962
West Town	1543
Near South Side	e 1491
Logan Square	1457
Old Town	1389

```
| 1342
Edgewater
Rush & Division
                  | 1060
North Center
                 | 1019
Lincoln Square
                  | 887
West Ridge
                 | 703
                 | 681
Rogers Park
Irving Park
                | 680
Hyde Park
                   646
Avondale
                | 502
Wicker Park
                 | 467
United Center
                 | 408
Lower West Side
                   | 375
                | 366
Douglas
Albany Park
                   365
Portage Park
                 | 266
Bucktown
                 | 261
Norwood Park
                  | 233
                  | 230
Mckinley Park
Bridgeport
                | 195
Humboldt Park
                  | 193
Kenwood
                 | 190
North Park
                | 168
Jefferson Park
                  | 167
Armour Square
                   | 146
Garfield Park
                 | 134
Boystown
                 | 129
Grand Boulevard
                   | 117
Belmont Cragin
                   | 116
Sauganash, Forest Glen | 104
Austin
                 96
South Shore
                    93
Ukrainian Village
                     84
Andersonville
                    81
Woodlawn
                    77
                   | 73
North Lawndale
                   71
Chinatown
Little Village
                  63
Chatham
                   60
Dunning
                   59
Englewood
                    58
                   57
Hermosa
                    51
Brighton Park
New City
                   46
                   45
Oakland
Washington Park
                      45
Grand Crossing
                     43
Jackson Park
                    43
Auburn Gresham
                       41
```

```
| 36
Edison Park
Wrigleyville
                  35
Ashburn
                 32
Clearing
               | 31
Roseland
                | 31
South Chicago
Washington Heights | 28
Chicago Lawn
                  | 24
Beverly
               | 24
West Lawn
                | 19
Morgan Park
                 | 18
Archer Heights
                    18
Calumet Heights
                  | 17
South Deering
                    15
West Pullman
                    15
Montclare
                | 13
Avalon Park
                | 12
West Elsdon
                 | 12
Fuller Park
                  11
Pullman
                  11
Gage Park
                | 10
Undef
                  6
Mount Greenwood
                    1
                       5
Burnside
                   5
Riverdale
                   5
East Side
                   4
Hegewisch
(94 rows)
```

Запрос, которым удалось решить задачу.

SELECT neighborhoods.name AS name, COUNT(*) AS cnt

FROM trips INNER JOIN neighborhoods ON neighborhoods.neighborhood_id = trips.dropoff_location_id

WHERE trips.end_ts BETWEEN '2017-11-16 00:00:00' AND '2017-11-17 23:59:59'

GROUP BY name

ORDER BY cnt DESC;

