



Поиск и устранение проблем в PostgreSQL с помощью pgCenter



КТО ГОВОРИТ

PostgreSQL DBA в DataEgret

Системный администратор

Проблемы бывают



Коллеги , у нас перманентная авария с очередями, посмотрите , можно ли улучшить ситуацию со стороны БД?

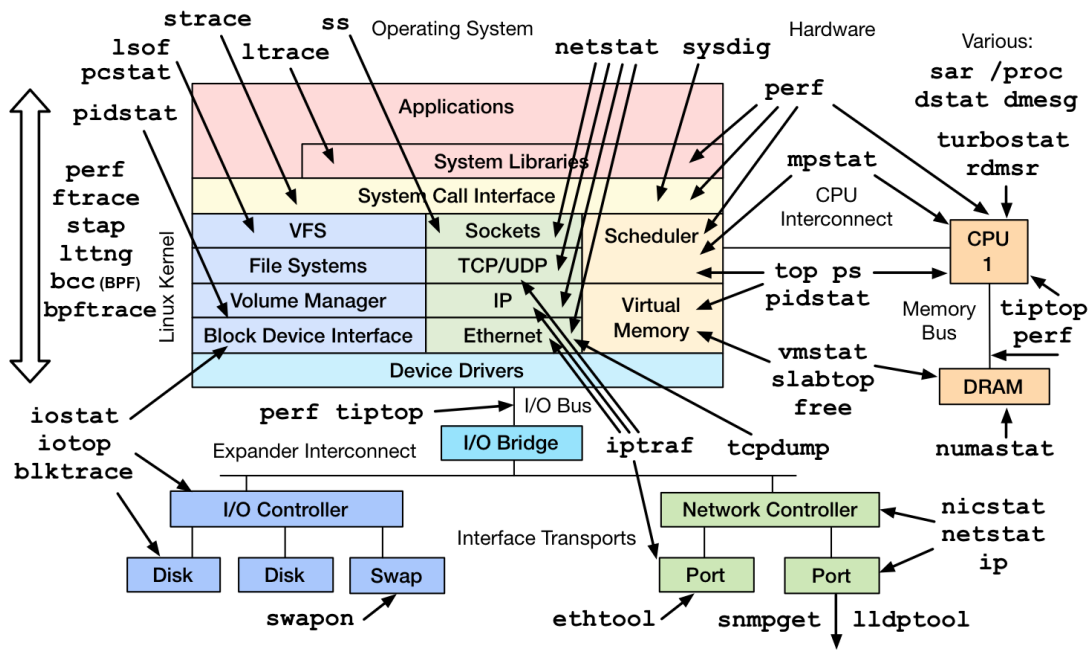


привет. смотрю

так, похоже базе плохо 😞

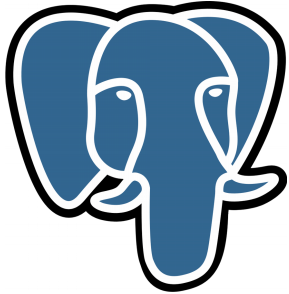
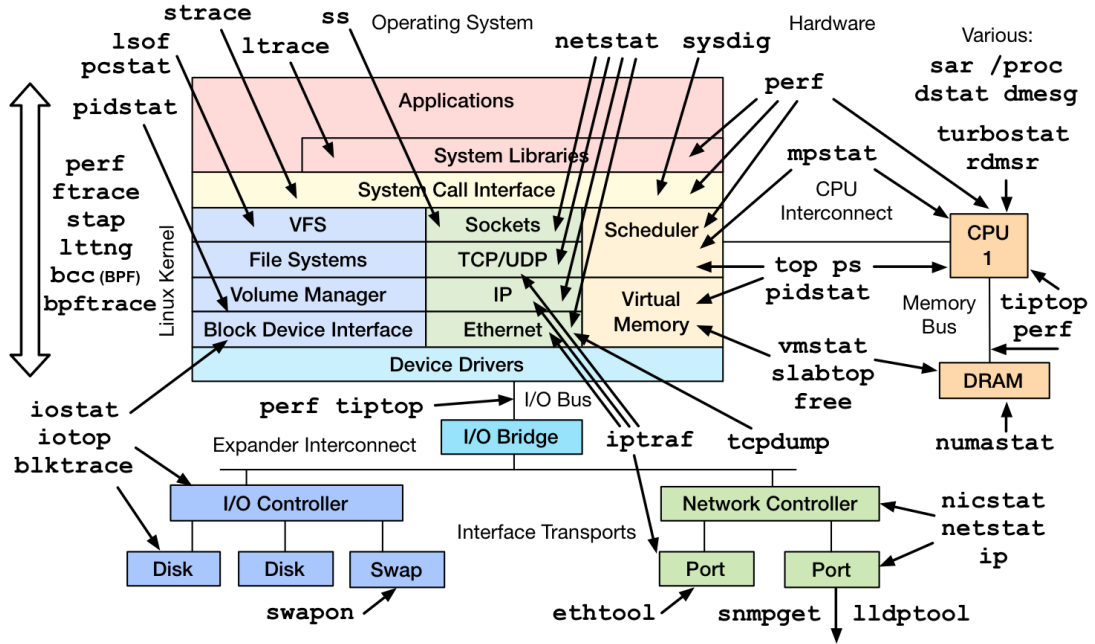
Что делать?

Linux Performance Observability Tools



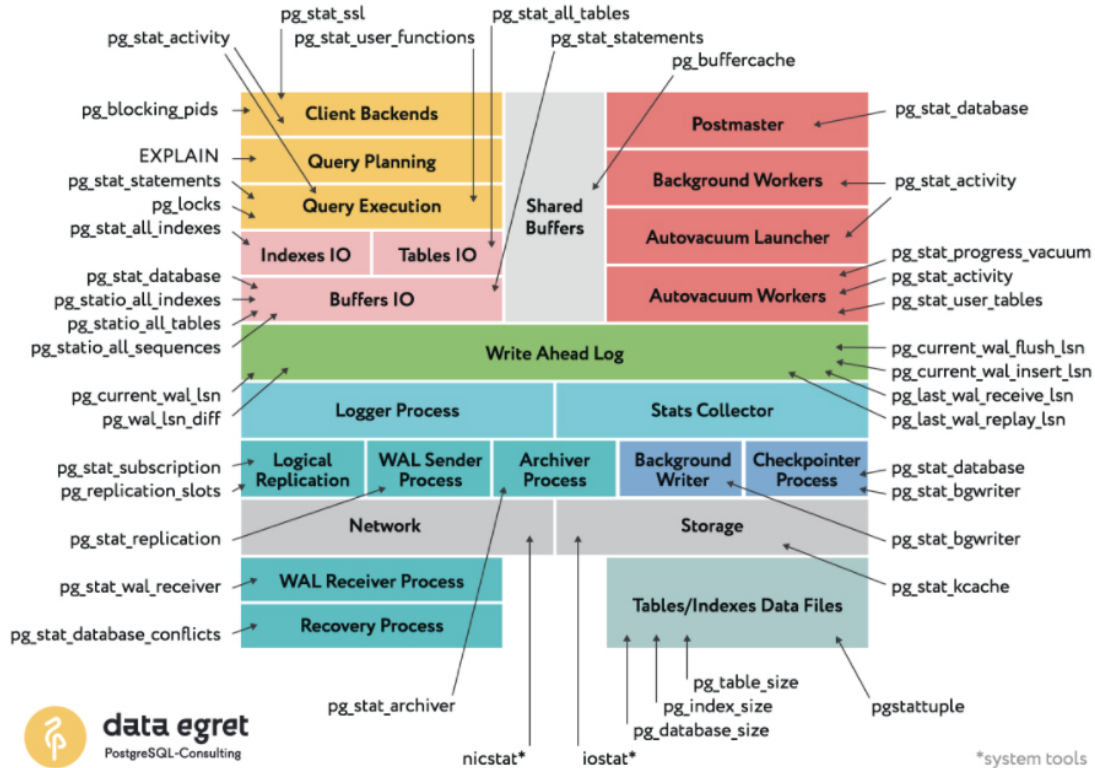
Что делать?

Linux Performance Observability Tools

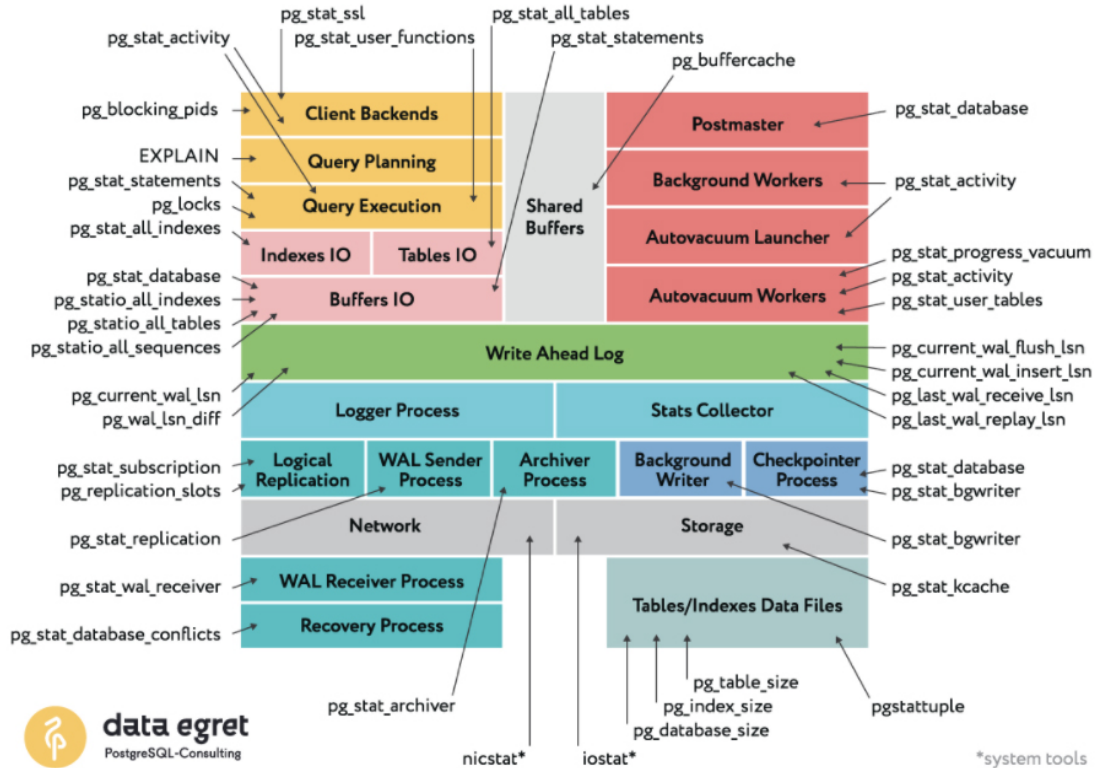


<http://www.brendangregg.com/linuxperf.html> 2018

Postgres internals



Postgres internals



Что ?

Где ?

Когда ?

pgCenter

lesovsky / pgcenter

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Command-line admin tool for observing and troubleshooting Postgres. [Edit](#)


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README.md

pgCenter org build passing

 pgCenter

pgCenter is a command-line admin tool for observing and troubleshooting Postgres.

- Main goal

pgCenter

- top-like stats viewer

- top-like stats viewer
- stats recording and reporting
- wait_events profiler
- ...

```
$ pgcenter top
```

```
$ pgcenter top -h host -p port -U user -d dbname
```

```
$ pgcenter top -h /var/run/postgresql
```

```
$ PGOPTIONS='--search_path=stats' pgcenter top
```

pgcenter: 2019-01-31 04:04:25, load average: 7.27, 6.19, 5.72
%cpu: 11.0 us, 1.7 sy, 16.1 ni, 70.6 id, 0.1 wa, 0.0 hi, 0.5 si, 0.0 st
MiB mem: 245854 total, 2283 free, 192521 used, 51050 buff/cached
MiB swap: 65531 total, 62647 free, 2884 used, 6/0 dirty/writeback

state [ok]: /var/run/postgre:5432 postgres@postgres (ver: 10.5, up 150 days 20:32:55, recovery: f)
activity:120/300 conns, 0/0 prepared, 98 idle, 11 idle_xact, 11 active, 0 waiting, 0 others
autovacuum: 0/10 workers/max, 0 manual, 0 wraparound, 00:00:00 vac_maxtime
statements: 8281 stmt/s, 0.370 stmt_avgtime, 00:01:36 xact_maxtime, 00:00:00 prep_maxtime

pid	cl_addr	cl_port	datname	username	appname	backend_type	wait_etype	wait_event	state	xact_age	query_age	change_age	query
58427	172.31.~	58410	clickca~	postgres		client back~			active	00:00:00	00:00:00	00:00:00	SELECT "id", "id", "name" FROM "categories" WHERE "
58320	172.31.~	58346	clickca~	postgres		client back~			active	00:00:00	00:00:00	00:00:00	SELECT "id", "id", "name", "url", "domain", "enable
45803	127.0.0~	41844	clickca~	clickca~		client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	SELECT "job_stats_master".* FROM "job_stats_master"
109276	127.0.0~	46012	clickca~	clickca~	sidekiq~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	UPDATE "jobs" SET "url" = 'https://www.collegerecru
109275	127.0.0~	46010	clickca~	clickca~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:01:16	00:01:15	00:01:15	select setting0_.id as id1_32_0_, setting0_.allow_z
103420	127.0.0~	45636	clickca~	clickca~	sidekiq~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	UPDATE "employer_mtd_reports" SET "fields" = '{cli
103418	127.0.0~	45632	clickca~	clickca~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	select jobcompani_.matching_configuration_id as ma
103414	127.0.0~	45630	clickca~	clickca~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	select setting0_.id as id1_32_0_, setting0_.allow_z
103101	127.0.0~	45588	clickca~	clickca~		client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	SELECT "job_stats_master".* FROM "job_stats_master"
102458	127.0.0~	45526	clickca~	clickca~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:00:24	00:00:24	00:00:24	select jobcompani_.matching_configuration_id as ma
100224	127.0.0~	45338	clickca~	clickca~	sidekiq~	client back~			active	00:00:00	00:00:00	00:00:00	SELECT "job_group_exchange_weekly_budget_progresses
94402	127.0.0~	45054	clickca~	clickca~	sidekiq~	client back~			active	00:00:00	00:00:00	00:00:00	SELECT "job_locations".* FROM "job_locations" WHERE
94388	127.0.0~	45052	clickca~	clickca~	sidekiq~	client back~			active	00:00:00	00:00:00	00:00:00	SELECT "feed_update_histories".* FROM "feed_update_
94387	127.0.0~	45050	clickca~	clickca~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:01:36	00:01:36	00:01:36	select job0_.id as id1_25_0_, jobcounter1_.job_refe
76136	127.0.0~	43948	clickca~	clickca~	sidekiq~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	UPDATE "jobs" SET "url" = 'https://www.collegerecru
72388	127.0.0~	43708	clickca~	clickca~		client back~			active	00:00:00	00:00:00	00:00:00	SELECT "job_stats_master".* FROM "job_stats_master"
67547	127.0.0~	43362	clickca~	clickca~	sidekiq~	client back~			active	00:00:00	00:00:00	00:00:00	SELECT "exchanges".* FROM "exchanges" WHERE "exchan
113835	127.0.0~	46326	clickca~	clickca~		client back~			idle in transaction	00:00:00	00:00:00	00:00:00	SELECT "jobs".* FROM "jobs" WHERE "jobs"."job_refer
57120	127.0.0~	42542	clickca~	clickca~	sidekiq~	client back~			active	00:00:00	00:00:00	00:00:00	SELECT "job_group_weekly_budget_progresses".* FROM
113917		-1	clickca~	postgres	pgcenter	client back~			active	00:00:00	00:00:00	00:00:00	SELECTpid,client_addr AS cl_addr,client_port AS cl_
114965		-1	clickca~	postgres	pgscv	client back~			active	00:00:00	00:00:00	00:00:00	SELECT current_database() AS datname, schemaname, r

Системная информация

```
pgcenter: 2019-01-31 04:04:25, load average: 7.27, 6.19, 5.72
%cpu: 11.0 us, 1.7 sy, 16.1 ni, 70.6 id, 0.1 wa, 0.0 hi, 0.5 si, 0.0 st
MiB mem: 245854 total, 2283 free, 192521 used, 51050 buff/cached
MiB swap: 65531 total, 62647 free, 2884 used, 6/0 dirty/writeback
```

```
state [OK]: /var/run/postgre-5432 postgrespostgres (ver: 9.5, up 138 days 20:32:35, recovery: F)
activity: 128/300 conns, 0/0 prepared, 98 idle, 11 idle_xact, 11 active, 0 waiting, 0 others
autovacuum: 0/10 workers/max, 0 manual, 0 wraparound, 00-00-00 vac_nextime
statements: 8282 stat/s, 0.378 stat_avgtime, 00-01-30 xact_nextime, 00-00-00 prep_nextime
```

pid	cl_addr	cl_port	dbname	username	appname	backend_type	wait_type	wait_event	state	xact_age	query_age	change_age	query
58427	172.31.-	58428	clickca	postgres		client back			active	00-00-00	00-00-00	00-00-00	SELECT "id", "id", "name" FROM "categories" WHERE "
58328	172.31.-	58346	clickca	postgres		client back			active	00-00-00	00-00-00	00-00-00	SELECT "id", "id", "name", "url", "domain", "enable
45083	127.0.0.	45084	clickca	clickca		client back	Client	ClientRead	idle in transaction	00-00-00	00-00-00	00-00-00	SELECT "job_stats_master".* FROM "job_stats_master"
589276	127.0.0.	45052	clickca	clickca	sideklp	client back	Client	ClientRead	idle in transaction	00-00-00	00-00-00	00-00-00	UPDATE "jobs" SET "url" = "https://www.collegerecr
589275	127.0.0.	45050	clickca	clickca	Postgre	client back	Client	ClientRead	idle in transaction	00-01-16	00-01-15	00-01-15	select settings_id as id_32_0, settings_allow_2
583428	127.0.0.	45636	clickca	clickca	sideklp	client back	Client	ClientRead	idle in transaction	00-00-00	00-00-00	00-00-00	UPDATE "employer_and_reports" SET "fields" = 'cli
583428	127.0.0.	45632	clickca	clickca	Postgre	client back	Client	ClientRead	idle in transaction	00-00-00	00-00-00	00-00-00	select jobcomparison_matching_configuration_id as m
583414	127.0.0.	45638	clickca	clickca	Postgre	client back	Client	ClientRead	idle in transaction	00-00-00	00-00-00	00-00-00	select settings_id as id_32_0, settings_allow_2
80386	127.0.0.	45588	clickca	clickca		client back	Client	ClientRead	idle in transaction	00-00-00	00-00-00	00-00-00	SELECT "job_stats_master".* FROM "job_stats_master"
582458	127.0.0.	45526	clickca	clickca	Postgre	client back	Client	ClientRead	idle in transaction	00-00-24	00-00-24	00-00-24	select jobcomparison_matching_configuration_id as m
588224	127.0.0.	45338	clickca	clickca	sideklp	client back			active	00-00-00	00-00-00	00-00-00	SELECT "job_group_exchange_weekly_budget_progresses"
56882	127.0.0.	45854	clickca	clickca	sideklp	client back			active	00-00-00	00-00-00	00-00-00	SELECT "job_locations".* FROM "job_locations" WHERE
56388	127.0.0.	45852	clickca	clickca	sideklp	client back			active	00-00-00	00-00-00	00-00-00	SELECT "feed_update_histories".* FROM "feed_update
56387	127.0.0.	45858	clickca	clickca	Postgre	client back	Client	ClientRead	idle in transaction	00-01-26	00-01-26	00-01-26	select job_id as id_25_0, jobcounter1_job_ref
76536	127.0.0.	43948	clickca	clickca	sideklp	client back	Client	ClientRead	idle in transaction	00-00-00	00-00-00	00-00-00	UPDATE "jobs" SET "url" = "https://www.collegerecr
72388	127.0.0.	43788	clickca	clickca		client back			active	00-00-00	00-00-00	00-00-00	SELECT "job_stats_master".* FROM "job_stats_master"
67547	127.0.0.	43362	clickca	clickca	sideklp	client back			active	00-00-00	00-00-00	00-00-00	SELECT "exchanges".* FROM "exchanges" WHERE "exch
113835	127.0.0.	46326	clickca	clickca		client back			idle in transaction	00-00-00	00-00-00	00-00-00	SELECT "jobs".* FROM "jobs" WHERE "jobs"."job_refer
57128	127.0.0.	42542	clickca	clickca	sideklp	client back			active	00-00-00	00-00-00	00-00-00	SELECT "job_group_weekly_budget_progresses".* FROM
117917		-1	postgres	postgres	pgcenter	client back			active	00-00-00	00-00-00	00-00-00	SELECT job_client_addr AS cl_addr, client_port AS cl,
114945		-1	clickca	postgres	pgscr	client back			active	00-00-00	00-00-00	00-00-00	SELECT current_database() AS dbname, schemaname, r

Postgres'овая информация

```
pgcenter: 2025-01-31 04:04:25, load average: 7.27, 6.19, 5.72
%cpu: 11.0 us, 1.7 sy, 16.1 ni, 70.6 id, 0.1 wa, 0.0 hi, 0.3 si, 0.0 st
Mem mem: 245054 total, 2283 free, 292521 used, 5000 buff/cached
Mem swap: 05531 total, 62647 free, 2004 used, 6/0 dirty/writback
```

pid	cl_addr	cl_port	dbname	username	appname	backend_type	wait_type	wait_event	state	xact_age	query_age	change_age	query
50427	172.31.-	50450	clickca-	postgres		client back-			active	00-00-00	00-00-00	00-00-00	SELECT "id", "id", "name" FROM "categories" WHERE "
50320	172.31.-	50346	clickca-	postgres		client back-			active	00-00-00	00-00-00	00-00-00	SELECT "id", "id", "name", "url", "domain", "enable
45083	127.0.0-	45064	clickca-	clickca-		client back-	client	ClientRead	idle in transaction	00-00-00	00-00-00	00-00-00	SELECT "job_stats_master".* FROM "job_stats_master"
505276	127.0.0-	45052	clickca-	clickca-	sideklp-	client back-	client	ClientRead	idle in transaction	00-00-00	00-00-00	00-00-00	UPDATE "jobs" SET "url" = "https://www.collegerecr
505275	127.0.0-	45050	clickca-	clickca-	Postgre-	client back-	client	ClientRead	idle in transaction	00-01-16	00-01-15	00-01-15	select settings_.id as id_32_0, settings_.allow_2
503420	127.0.0-	45036	clickca-	clickca-	sideklp-	client back-	client	ClientRead	idle in transaction	00-00-00	00-00-00	00-00-00	UPDATE "employer_and_reports" SET "fields" = '{"cli
503418	127.0.0-	45032	clickca-	clickca-	Postgre-	client back-	client	ClientRead	idle in transaction	00-00-00	00-00-00	00-00-00	select jobcomparison_matching_configuration_id as m
503414	127.0.0-	45030	clickca-	clickca-	Postgre-	client back-	client	ClientRead	idle in transaction	00-00-00	00-00-00	00-00-00	select settings_.id as id_32_0, settings_.allow_2
503395	127.0.0-	45000	clickca-	clickca-		client back-	client	ClientRead	idle in transaction	00-00-00	00-00-00	00-00-00	SELECT "job_stats_master".* FROM "job_stats_master"
502450	127.0.0-	45526	clickca-	clickca-	Postgre-	client back-	client	ClientRead	idle in transaction	00-00-24	00-00-24	00-00-24	select jobcomparison_matching_configuration_id as m
500224	127.0.0-	45330	clickca-	clickca-	sideklp-	client back-			active	00-00-00	00-00-00	00-00-00	SELECT "job_group_exchange_weekly_budget_progresses"
50002	127.0.0-	45054	clickca-	clickca-	sideklp-	client back-			active	00-00-00	00-00-00	00-00-00	SELECT "job_locations".* FROM "job_locations" WHERE
50300	127.0.0-	45052	clickca-	clickca-	sideklp-	client back-			active	00-00-00	00-00-00	00-00-00	SELECT "feed_update_histories".* FROM "feed_update_
50307	127.0.0-	45050	clickca-	clickca-	Postgre-	client back-	client	ClientRead	idle in transaction	00-01-26	00-01-26	00-01-26	select job_.id as id_25_0, jobcounter1_job_refe
70536	127.0.0-	43940	clickca-	clickca-	sideklp-	client back-	client	ClientRead	idle in transaction	00-00-00	00-00-00	00-00-00	UPDATE "jobs" SET "url" = "https://www.collegerecr
72300	127.0.0-	43780	clickca-	clickca-		client back-			active	00-00-00	00-00-00	00-00-00	SELECT "job_stats_master".* FROM "job_stats_master"
67547	127.0.0-	43262	clickca-	clickca-	sideklp-	client back-			active	00-00-00	00-00-00	00-00-00	SELECT "exchanges".* FROM "exchanges" WHERE "excha
513035	127.0.0-	40326	clickca-	clickca-		client back-			idle in transaction	00-00-00	00-00-00	00-00-00	SELECT "jobs".* FROM "jobs" WHERE "jobs"."job_refer
57120	127.0.0-	42542	clickca-	clickca-	sideklp-	client back-			active	00-00-00	00-00-00	00-00-00	SELECT "job_group_weekly_budget_progresses".* FROM
517917		-1	postgres	postgres	pgcenter	client back-			active	00-00-00	00-00-00	00-00-00	SELECT job_client_addr AS cl_addr, client_port AS cl_
514945		-1	clickca-	postgres	pgscr	client back-			active	00-00-00	00-00-00	00-00-00	SELECT current_database() AS dbname, schemaname, r

```
state [ok]: /var/run/postgre:5432 postgres@postgres (ver: 10.5, up 150 days 20:32:55, recovery: f)
activity:120/300 conns, 0/0 prepared, 98 idle, 11 idle_xact, 11 active, 0 waiting, 0 others
autovacuum: 0/10 workers/max, 0 manual, 0 wraparound, 00:00:00 vac_maxtime
statements: 8281 stmt/s, 0.370 stmt_avgtime, 00:01:36 xact_maxtime, 00:00:00 prep_maxtime
```

```
pgcenter: 2023-05-31 04:04:25, load average: 7.27, 6.19, 5.72
cpu: 11.0 us, 1.7 sy, 16.1 ni, 76.6 id, 0.1 wa, 0.0 hi, 0.3 st, 0.0 st
MEM mem: 245854 total, 2283 free, 292521 used, 50808 buff/cache
MEM swap: 45531 total, 42647 free, 2884 used, 0/0 dirty/writback
```

```
state [ok]: /var/run/postgres/5432 postgres/postgres (ver: 16.5, up 138 days 20:32:55, recovery: f)
activity: 128/300 conns, 0/0 prepared, 96 idle, 11 idle_xact, 11 active, 0 waiting, 0 others
autovacuum: 0/10 workers/max, 0 manual, 0 wraparound, 00-00-00 vac_nextime
statements: 8282 stat/s, 0.378 stat_avgtime, 00-01:30 xact_nextime, 00-00-00 prep_nextime
```

pid	cl_addr	cl_port	datname	username	appname	backend_type	wait_etype	wait_event	state	xact_age	query_age	change_age	query
58427	172.31.~	58410	clickca~	postgres		client back~			active	00:00:00	00:00:00	00:00:00	SELECT "id", "id", "name" FROM "categories" WHERE "
58320	172.31.~	58346	clickca~	postgres		client back~			active	00:00:00	00:00:00	00:00:00	SELECT "id", "id", "name", "url", "domain", "enable
45803	127.0.0~	41844	clickca~	clickca~		client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	SELECT "job_stats_master".* FROM "job_stats_master"
109276	127.0.0~	46012	clickca~	clickca~	sidekiq~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	UPDATE "jobs" SET "url" = 'https://www.collegerecru
109275	127.0.0~	46010	clickca~	clickca~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:01:16	00:01:15	00:01:15	select setting0_.id as id1_32_0_, setting0_.allow_z
103420	127.0.0~	45636	clickca~	clickca~	sidekiq~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	UPDATE "employer_mtd_reports" SET "fields" = '{"cli
103418	127.0.0~	45632	clickca~	clickca~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	select jobcompani0_.matching_configuration_id as ma
103414	127.0.0~	45630	clickca~	clickca~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	select setting0_.id as id1_32_0_, setting0_.allow_z
103101	127.0.0~	45588	clickca~	clickca~	client back~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	SELECT "job_stats_master".* FROM "job_stats_master"
102458	127.0.0~	45526	clickca~	clickca~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:00:24	00:00:24	00:00:24	select jobcompani0_.matching_configuration_id as ma
100224	127.0.0~	45338	clickca~	clickca~	sidekiq~	client back~			active	00:00:00	00:00:00	00:00:00	SELECT "job_group_exchange_weekly_budget_progresses
94402	127.0.0~	45054	clickca~	clickca~	sidekiq~	client back~			active	00:00:00	00:00:00	00:00:00	SELECT "job_locations".* FROM "job_locations" WHERE
94388	127.0.0~	45052	clickca~	clickca~	sidekiq~	client back~			active	00:00:00	00:00:00	00:00:00	SELECT "feed_update_histories".* FROM "feed_update_
94387	127.0.0~	45050	clickca~	clickca~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:01:36	00:01:36	00:01:36	select job0_.id as id1_25_0_, jobcounter1_.job_refe
76136	127.0.0~	43948	clickca~	clickca~	sidekiq~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	UPDATE "jobs" SET "url" = 'https://www.collegerecru
72388	127.0.0~	43708	clickca~	clickca~	client back~	client back~			active	00:00:00	00:00:00	00:00:00	SELECT "job_stats_master".* FROM "job_stats_master"
67547	127.0.0~	43362	clickca~	clickca~	sidekiq~	client back~			active	00:00:00	00:00:00	00:00:00	SELECT "exchanges".* FROM "exchanges" WHERE "exchan
113835	127.0.0~	46326	clickca~	clickca~	client back~	client back~			idle in transaction	00:00:00	00:00:00	00:00:00	SELECT "jobs".* FROM "jobs" WHERE "jobs"."job_refer
57120	127.0.0~	42542	clickca~	clickca~	sidekiq~	client back~			active	00:00:00	00:00:00	00:00:00	SELECT "job_group_weekly_budget_progresses".* FROM
113917	-1	-1	postgres	postgres	pgcenter	client back~			active	00:00:00	00:00:00	00:00:00	SELECTpid,client_addr AS cl_addr,client_port AS cl_
114965	-1	-1	clickca~	postgres	pgscv	client back~			active	00:00:00	00:00:00	00:00:00	SELECT current_database() AS datname, schemaname, r

Статистика из
stat
представлений

```
pgrep: 2023-05-31 04:04:25, load average: 7.27, 6.19, 5.72
%cpu: 11.0 us, 1.7 sy, 16.1 ni, 70.6 id, 0.1 wa, 0.0 hi, 0.3 st, 0.0 sr
Mem mem: 245854 total, 2283 free, 292521 used, 5080 buff/cache
Mem swap: 65531 total, 62647 free, 2884 used, 6/0 dirty/writeback
```

```
state [ok]: /var/run/postgres/5432 postgres/postgres (ver: 10.5, up 150 days 20:32:55, recovery: f)
activity: 120/200 conn, 0/0 prepared, 98 idle, 11 idle_xact, 11 active, 0 waiting, 0 others
autovacuum: 0/10 workers/max, 0 manual, 0 wraparound, 00-00-00 vac_nextline
statements: 0202 stat/s, 0.370 stat_avgtime, 00-01:20 xact_nextline, 00-00-00 prep_nextline
```

pid	cl_addr	cl_port	datname	username	appname	backend_type	wait_etype	wait_event	state	xact_age	query_age	change_age	query
94387	127.0.0~	45050	clickca~	clickca~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:01:36	00:01:36	00:01:36	select job0_.id as id1_25_0, jobcounter1_.job_refe
109275	127.0.0~	46010	clickca~	clickca~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:01:16	00:01:15	00:01:15	select setting0_.id as id1_32_0, setting0_.allow_z
102458	127.0.0~	45526	clickca~	clickca~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:00:24	00:00:24	00:00:24	select jobcompani0_.matching_configuration_id as ma
109276	127.0.0~	46012	clickca~	clickca~	sidekiq~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	UPDATE "jobs" SET "url" = 'https://www.collegerecru
45803	127.0.0~	41844	clickca~	clickca~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	SELECT "job_stats_master".* FROM "job_stats_master"	
103420	127.0.0~	45636	clickca~	clickca~	sidekiq~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	UPDATE "employer_mtd_reports" SET "fields" = '{cli
103418	127.0.0~	45632	clickca~	clickca~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	select jobcompani0_.matching_configuration_id as ma
103414	127.0.0~	45630	clickca~	clickca~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	select setting0_.id as id1_32_0, setting0_.allow_z
103101	127.0.0~	45588	clickca~	clickca~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	SELECT "job_stats_master".* FROM "job_stats_master"	
58427	172.31.~	58410	clickca~	postgres	client back~	active			active	00:00:00	00:00:00	00:00:00	SELECT "id", "id", "name" FROM "categories" WHERE "
100224	127.0.0~	45338	clickca~	clickca~	sidekiq~	client back~	active		active	00:00:00	00:00:00	00:00:00	SELECT "job_group.exchange_weekly_budget_progresses
94402	127.0.0~	45054	clickca~	clickca~	sidekiq~	client back~	active		active	00:00:00	00:00:00	00:00:00	SELECT "job_locations".* FROM "job_locations" WHERE
94388	127.0.0~	45052	clickca~	clickca~	sidekiq~	client back~	active		active	00:00:00	00:00:00	00:00:00	SELECT "feed_update_histories".* FROM "feed_update_
58320	172.31.~	58346	clickca~	postgres	client back~	active			active	00:00:00	00:00:00	00:00:00	SELECT "id", "id", "name", "url", "domain", "enable
76136	127.0.0~	43948	clickca~	clickca~	sidekiq~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	UPDATE "jobs" SET "url" = 'https://www.collegerecru
72388	127.0.0~	43708	clickca~	clickca~	client back~	active			active	00:00:00	00:00:00	00:00:00	SELECT "job_stats_master".* FROM "job_stats_master"
67547	127.0.0~	43362	clickca~	clickca~	sidekiq~	client back~	active		active	00:00:00	00:00:00	00:00:00	SELECT "exchanges".* FROM "exchanges" WHERE "exchan
113835	127.0.0~	46326	clickca~	clickca~	client back~	idle in transaction			idle in transaction	00:00:00	00:00:00	00:00:00	SELECT "jobs".* FROM "jobs" WHERE "jobs"."job_refer
57120	127.0.0~	42542	clickca~	clickca~	sidekiq~	client back~	active		active	00:00:00	00:00:00	00:00:00	SELECT "job_group_weekly_budget_progresses".* FROM
113917		-1	postgres	postgres	pgcenter	client back~	active		active	00:00:00	00:00:00	00:00:00	SELECT pid, client_addr AS cl_addr, client_port AS cl_
114965		-1	clickca~	postgres	pgscv	client back~	active		active	00:00:00	00:00:00	00:00:00	SELECT current_database() AS datname, schemaname, r

01

**Всё ли
в порядке?**

Всё как по USE методу

Использование ресурсов

Ошибки

cpu usage, mem, swap

```
pgcenter: 2019-01-31 04:04:25, load average: 7.27, 6.19, 5.72
%cpu: 11.0 us, 1.7 sy, 16.1 ni, 70.6 id, 0.1 wa, 0.0 hi, 0.5 si, 0.0 st
MiB mem: 245854 total, 2285 free, 192521 used, 51630 buff/cached
MiB swap: 65531 total, 62647 free, 2884 used, 6/0 dirty/writeback
```

```
state [ok]: /var/run/postgre:5432 postgres@postgres (ver: 10.5, up 150 days 20:32:55, recovery: f)
activity:120/300 conns, 0/0 prepared, 98 idle, 11 idle_xact, 11 active, 0 waiting, 0 others
autovacuum: 0/10 workers/max, 0 manual, 0 wraparound, 00:00:00 vac_maxtime
statements: 8281 stmt/s, 0.370 stmt_avgtime, 00:01:36 xact_maxtime, 00:00:00 prep_maxtime
```

pid	cl_addr	cl_port	datname	username	appname	backend_type	wait_etype	wait_event	state	xact_age	query_age	change_age	query
58427	172.31.~	58410	clickca~	postgres		client back~			active	00:00:00	00:00:00	00:00:00	SELECT "id", "id", "name" FROM "categories" WHERE "
58320	172.31.~	58346	clickca~	postgres		client back~			active	00:00:00	00:00:00	00:00:00	SELECT "id", "id", "name", "url", "domain", "enable
45803	127.0.0~	41844	clickca~	clickca~		client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	SELECT "job_stats_master".* FROM "job_stats_master"
109276	127.0.0~	46012	clickca~	clickca~	sidekiq~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	UPDATE "jobs" SET "url" = 'https://www.collegerecru
109275	127.0.0~	46010	clickca~	clickca~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:01:16	00:01:15	00:01:15	select setting0_.id as id1_32_0_, setting0_.allow_z
103420	127.0.0~	45636	clickca~	clickca~	sidekiq~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	UPDATE "employer_mtd_reports" SET "fields" = '{cli
103418	127.0.0~	45632	clickca~	clickca~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	select jobcompani0_.matching_configuration_id as ma
103414	127.0.0~	45630	clickca~	clickca~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	select setting0_.id as id1_32_0_, setting0_.allow_z
103101	127.0.0~	45588	clickca~	clickca~		client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	SELECT "job_stats_master".* FROM "job_stats_master"
102458	127.0.0~	45526	clickca~	clickca~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:00:24	00:00:24	00:00:24	select jobcompani0_.matching_configuration_id as ma
100224	127.0.0~	45338	clickca~	clickca~	sidekiq~	client back~			active	00:00:00	00:00:00	00:00:00	SELECT "job_group_exchange_weekly_budget_progresses
94402	127.0.0~	45054	clickca~	clickca~	sidekiq~	client back~			active	00:00:00	00:00:00	00:00:00	SELECT "job_locations".* FROM "job_locations" WHERE
94388	127.0.0~	45052	clickca~	clickca~	sidekiq~	client back~			active	00:00:00	00:00:00	00:00:00	SELECT "feed_update_histories".* FROM "feed_update_
94387	127.0.0~	45050	clickca~	clickca~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:01:36	00:01:36	00:01:36	select job0_.id as id1_25_0_, jobcounter1_.job_refe
76136	127.0.0~	43948	clickca~	clickca~	sidekiq~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	UPDATE "jobs" SET "url" = 'https://www.collegerecru
72388	127.0.0~	43708	clickca~	clickca~		client back~			active	00:00:00	00:00:00	00:00:00	SELECT "job_stats_master".* FROM "job_stats_master"
67547	127.0.0~	43362	clickca~	clickca~	sidekiq~	client back~			active	00:00:00	00:00:00	00:00:00	SELECT "exchanges".* FROM "exchanges" WHERE "exchan
113835	127.0.0~	46326	clickca~	clickca~		client back~			idle in transaction	00:00:00	00:00:00	00:00:00	SELECT "jobs".* FROM "jobs" WHERE "jobs"."job_refer
57120	127.0.0~	42542	clickca~	clickca~	sidekiq~	client back~			active	00:00:00	00:00:00	00:00:00	SELECT "job_group_weekly_budget_progresses".* FROM
113917		-1	postgre	postgre	pgcenter	client back~			active	00:00:00	00:00:00	00:00:00	SELECTpid,client_addr AS cl_addr,client_port AS cl_
114965		-1	clickca~	postgre	pgscv	client back~			active	00:00:00	00:00:00	00:00:00	SELECT current_database() AS datname, schemaname, r

/proc/cpuinfo

cpu usage, mem, swap

```
pgcenter: 2019-01-31 04:04:25, load average: 7.27, 6.19, 5.72
%cpu: 11.0 us, 1.7 sy, 16.1 ni, 70.6 id, 0.1 wa, 0.0 hi, 0.5 si, 0.0 st
MiB mem: 245854 total, 2283 free, 192521 used, 51050 buff/cached
Mem swap: 65551 total, 62047 free, 2884 used, 0% dirty/writback
```

```
state [ok]: /var/run/postgre:5432 postgres@postgres (ver: 10.5, up 150 days 20:32:55, recovery: f)
activity:120/300 conns, 0/0 prepared, 98 idle, 11 idle_xact, 11 active, 0 waiting, 0 others
autovacuum: 0/10 workers/max, 0 manual, 0 wraparound, 00:00:00 vac_maxtime
statements: 8281 stmt/s, 0.370 stmt_avgtime, 00:01:36 xact_maxtime, 00:00:00 prep_maxtime
```

pid	cl_addr	cl_port	datname	username	appname	backend_type	wait_etype	wait_event	state	xact_age	query_age	change_age	query
58427	172.31.~	58410	clickca~	postgres		client back~			active	00:00:00	00:00:00	00:00:00	SELECT "id", "id", "name" FROM "categories" WHERE "
58320	172.31.~	58346	clickca~	postgres		client back~			active	00:00:00	00:00:00	00:00:00	SELECT "id", "id", "name", "url", "domain", "enable
45803	127.0.0~	41844	clickca~	clickca~		client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	SELECT "job_stats_master".* FROM "job_stats_master"
109276	127.0.0~	46012	clickca~	clickca~	sidekiq~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	UPDATE "jobs" SET "url" = 'https://www.collegerecru
109275	127.0.0~	46010	clickca~	clickca~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:01:16	00:01:15	00:01:15	select setting0_.id as id1_32_0_, setting0_.allow_z
103420	127.0.0~	45636	clickca~	clickca~	sidekiq~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	UPDATE "employer_mtd_reports" SET "fields" = '{cli
103418	127.0.0~	45632	clickca~	clickca~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	select jobcompani0_.matching_configuration_id as ma
103414	127.0.0~	45630	clickca~	clickca~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	select setting0_.id as id1_32_0_, setting0_.allow_z
103101	127.0.0~	45588	clickca~	clickca~		client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	SELECT "job_stats_master".* FROM "job_stats_master"
102458	127.0.0~	45526	clickca~	clickca~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:00:24	00:00:24	00:00:24	select jobcompani0_.matching_configuration_id as ma
100224	127.0.0~	45338	clickca~	clickca~	sidekiq~	client back~			active	00:00:00	00:00:00	00:00:00	SELECT "job_group_exchange_weekly_budget_progresses
94402	127.0.0~	45054	clickca~	clickca~	sidekiq~	client back~			active	00:00:00	00:00:00	00:00:00	SELECT "job_locations".* FROM "job_locations" WHERE
94388	127.0.0~	45052	clickca~	clickca~	sidekiq~	client back~			active	00:00:00	00:00:00	00:00:00	SELECT "feed_update_histories".* FROM "feed_update_
94387	127.0.0~	45050	clickca~	clickca~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:01:36	00:01:36	00:01:36	select job0_.id as id1_25_0_, jobcounter1_.job_refe
76136	127.0.0~	43948	clickca~	clickca~	sidekiq~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	UPDATE "jobs" SET "url" = 'https://www.collegerecru
72388	127.0.0~	43708	clickca~	clickca~		client back~			active	00:00:00	00:00:00	00:00:00	SELECT "job_stats_master".* FROM "job_stats_master"
67547	127.0.0~	43362	clickca~	clickca~	sidekiq~	client back~			active	00:00:00	00:00:00	00:00:00	SELECT "exchanges".* FROM "exchanges" WHERE "exchan
113835	127.0.0~	46326	clickca~	clickca~		client back~			idle in transaction	00:00:00	00:00:00	00:00:00	SELECT "jobs".* FROM "jobs" WHERE "jobs"."job_refer
57120	127.0.0~	42542	clickca~	clickca~	sidekiq~	client back~			active	00:00:00	00:00:00	00:00:00	SELECT "job_group_weekly_budget_progresses".* FROM
113917		-1	clickca~	postgres	pgcenter	client back~			active	00:00:00	00:00:00	00:00:00	SELECTpid,client_addr AS cl_addr,client_port AS cl_
114965		-1	clickca~	postgres	pgscv	client back~			active	00:00:00	00:00:00	00:00:00	SELECT current_database() AS datname, schemaname, r

/proc/meminfo

cpu usage, mem, swap

```
pgcenter: 2019-01-31 04:04:25, load average: 7.27, 6.19, 5.72
%cpu: 11.0 us, 1.7 sy, 16.1 ni, 70.6 id, 0.1 wa, 0.0 hi, 0.5 si, 0.0 st
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```
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autovacuum: 0/10 workers/max, 0 manual, 0 wraparound, 00:00:00 vac_maxtime
statements: 8281 stmt/s, 0.370 stmt_avgtime, 00:01:36 xact_maxtime, 00:00:00 prep_maxtime
```

pid	cl_addr	cl_port	datname	username	appname	backend_type	wait_etype	wait_event	state	xact_age	query_age	change_age	query
58427	172.31.~	58410	clickca~	postgres		client back~			active	00:00:00	00:00:00	00:00:00	SELECT "id", "id", "name" FROM "categories" WHERE "
58320	172.31.~	58346	clickca~	postgres		client back~			active	00:00:00	00:00:00	00:00:00	SELECT "id", "id", "name", "url", "domain", "enable
45803	127.0.0~	41844	clickca~	clickca~		client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	SELECT "job_stats_master".* FROM "job_stats_master"
109276	127.0.0~	46012	clickca~	clickca~	sidekiq~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	UPDATE "jobs" SET "url" = 'https://www.collegerecru
109275	127.0.0~	46010	clickca~	clickca~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:01:16	00:01:15	00:01:15	select setting0_.id as id1_32_0_, setting0_.allow_z
103420	127.0.0~	45636	clickca~	clickca~	sidekiq~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	UPDATE "employer_mtd_reports" SET "fields" = '{cli
103418	127.0.0~	45632	clickca~	clickca~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	select jobcompani0_.matching_configuration_id as ma
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103101	127.0.0~	45588	clickca~	clickca~		client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	SELECT "job_stats_master".* FROM "job_stats_master"
102458	127.0.0~	45526	clickca~	clickca~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:00:24	00:00:24	00:00:24	select jobcompani0_.matching_configuration_id as ma
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/proc/meminfo

cpu usage, mem, swap, IO, network

```
pgcenter: 2019-01-31 04:04:25, load average: 7.27, 6.19, 5.72
%cpu: 11.0 us, 1.7 sy, 16.1 ni, 70.6 id, 0.1 wa, 0.0 hi, 0.5 si, 0.0 st
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```

pid	cl_addr	cl_port	datname	username	appname	backend_type	wait_etype	wait_event	state	xact_age	query_age	change_age	query
58427	172.31.~	58410	clickca~	postgres		client back~			active	00:00:00	00:00:00	00:00:00	SELECT "id", "id", "name" FROM "categories" WHERE "
58320	172.31.~	58346	clickca~	postgres		client back~			active	00:00:00	00:00:00	00:00:00	SELECT "id", "id", "name", "url", "domain", "enable
45803	127.0.0~	41844	clickca~	clickca~		client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	SELECT "job_stats_master".* FROM "job_stats_master"
109276	127.0.0~	46012	clickca~	clickca~	sidekiq~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	UPDATE "jobs" SET "url" = 'https://www.collegerecru
109275	127.0.0~	46010	clickca~	clickca~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:01:16	00:01:15	00:01:15	select setting0_.id as id1_32_0, setting0_.allow_z
103420	127.0.0~	45636	clickca~	clickca~	sidekiq~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	UPDATE "employer_mtd_reports" SET "fields" = '{cli
103418	127.0.0~	45632	clickca~	clickca~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	select jobcompani0_.matching_configuration_id as ma
103414	127.0.0~	45630	clickca~	clickca~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	select setting0_.id as id1_32_0, setting0_.allow_z
103101	127.0.0~	45588	clickca~	clickca~	clickca~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	SELECT "job_stats_master".* FROM "job_stats_master"
102458	127.0.0~	45526	clickca~	clickca~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:00:24	00:00:24	00:00:24	select jobcompani0_.matching_configuration_id as ma
100224	127.0.0~	45338	clickca~	clickca~	sidekiq~	client back~			active	00:00:00	00:00:00	00:00:00	SELECT "job_group_exchange_weekly_budget_progresses"
94402	127.0.0~	45054	clickca~	clickca~	sidekiq~	client back~			active	00:00:00	00:00:00	00:00:00	SELECT "job_locations".* FROM "job_locations" WHERE
94388	127.0.0~	45052	clickca~	clickca~	sidekiq~	client back~			active	00:00:00	00:00:00	00:00:00	SELECT "feed_update_histories".* FROM "feed_update_
94387	127.0.0~	45050	clickca~	clickca~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:01:36	00:01:36	00:01:36	select job0_.id as id1_25_0, jobcounter1_.job_refe
76136	127.0.0~	43948	clickca~	clickca~	sidekiq~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	UPDATE "jobs" SET "url" = 'https://www.collegerecru
72388	127.0.0~	43708	clickca~	clickca~	clickca~	client back~			active	00:00:00	00:00:00	00:00:00	SELECT "job_stats_master".* FROM "job_stats_master"
67547	127.0.0~	43362	clickca~	clickca~	sidekiq~	client back~			active	00:00:00	00:00:00	00:00:00	SELECT "exchanges".* FROM "exchanges" WHERE "exchan
113835	127.0.0~	46326	clickca~	clickca~	clickca~	client back~			idle in transaction	00:00:00	00:00:00	00:00:00	SELECT "jobs".* FROM "jobs" WHERE "jobs"."job_refer
57120	127.0.0~	42542	clickca~	clickca~	sidekiq~	client back~			active	00:00:00	00:00:00	00:00:00	SELECT "job_group_weekly_budget_progresses".* FROM
113917		-1	clickca~	postgres	pgcenter	client back~			active	00:00:00	00:00:00	00:00:00	SELECTpid,client_addr AS cl_addr,client_port AS cl_
114965		-1	clickca~	postgres	pgscv	client back~			active	00:00:00	00:00:00	00:00:00	SELECT current_database() AS datname, schemaname, r

Uptime

Подключения

Автовакуум

Долгие транзакции

```
pgcenter: 2019-01-31 04:04:25, load average: 7.27, 6.19, 5.72
%cpu: 11.0 us, 1.7 sy, 16.1 ni, 70.6 id, 0.1 wa, 0.0 hi, 0.5 si, 0.0 st
MiB mem: 245854 total, 2283 free, 192521 used, 51050 buff/cached
MiB swap: 65531 total, 62647 free, 2884 used, 6/0 dirty/writeback
```

```
state [ok]: /var/run/postgre:5432 postgres@postgres (ver: 10.5, up 150 days 20:32:55, recovery: f)
activity:120/300 conns, 0/0 prepared, 98 idle, 11 idle_xact, 11 active, 0 waiting, 0 others
autovacuum: 0/10 workers/max, 0 manual, 0 wraparound, 00:00:00 vac_maxtime
statements: 8281 stmt/s, 0.370 stmt_avgtime, 00:01:36 xact_maxtime, 00:00:00 prep_maxtime
```

pid	cl_addr	cl_port	datname	username	appname	backend_type	wait_etype	wait_event	state	xact_age	query_age	change_age	query
58427	172.31.~	58410	clickca~	postgres		client back~			active	00:00:00	00:00:00	00:00:00	SELECT "id", "id", "name" FROM "categories" WHERE "
58320	172.31.~	58346	clickca~	postgres		client back~			active	00:00:00	00:00:00	00:00:00	SELECT "id", "id", "name", "url", "domain", "enable
45803	127.0.0~	41844	clickca~	clickca~		client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	SELECT "job_stats_master".* FROM "job_stats_master"
109276	127.0.0~	46012	clickca~	clickca~	sidekiq~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	UPDATE "jobs" SET "url" = 'https://www.collegerecru
109275	127.0.0~	46010	clickca~	clickca~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:01:16	00:01:15	00:01:15	select setting0_.id as id1_32_0_, setting0_.allow_z
103420	127.0.0~	45636	clickca~	clickca~	sidekiq~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	UPDATE "employer_mtd_reports" SET "fields" = '{cli
103418	127.0.0~	45632	clickca~	clickca~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	select jobcompani0_.matching_configuration_id as ma
103414	127.0.0~	45630	clickca~	clickca~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	select setting0_.id as id1_32_0_, setting0_.allow_z
103101	127.0.0~	45588	clickca~	clickca~		client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	SELECT "job_stats_master".* FROM "job_stats_master"
102458	127.0.0~	45526	clickca~	clickca~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:00:24	00:00:24	00:00:24	select jobcompani0_.matching_configuration_id as ma
100224	127.0.0~	45338	clickca~	clickca~	sidekiq~	client back~			active	00:00:00	00:00:00	00:00:00	SELECT "job_group_exchange_weekly_budget_progresses
94402	127.0.0~	45054	clickca~	clickca~	sidekiq~	client back~			active	00:00:00	00:00:00	00:00:00	SELECT "job_locations".* FROM "job_locations" WHERE
94388	127.0.0~	45052	clickca~	clickca~	sidekiq~	client back~			active	00:00:00	00:00:00	00:00:00	SELECT "feed_update_histories".* FROM "feed_update_
94387	127.0.0~	45050	clickca~	clickca~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:01:36	00:01:36	00:01:36	select job0_.id as id1_25_0_, jobcounter1_.job_refe
76136	127.0.0~	43948	clickca~	clickca~	sidekiq~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	UPDATE "jobs" SET "url" = 'https://www.collegerecru
72388	127.0.0~	43708	clickca~	clickca~		client back~			active	00:00:00	00:00:00	00:00:00	SELECT "job_stats_master".* FROM "job_stats_master"
67547	127.0.0~	43362	clickca~	clickca~	sidekiq~	client back~			active	00:00:00	00:00:00	00:00:00	SELECT "exchanges".* FROM "exchanges" WHERE "exchan
113835	127.0.0~	46326	clickca~	clickca~		client back~			idle in transaction	00:00:00	00:00:00	00:00:00	SELECT "jobs".* FROM "jobs" WHERE "jobs"."job_refer
57120	127.0.0~	42542	clickca~	clickca~	sidekiq~	client back~			active	00:00:00	00:00:00	00:00:00	SELECT "job_group_weekly_budget_progresses".* FROM
113917		-1	clickca~	postgres	pgcenter	client back~			active	00:00:00	00:00:00	00:00:00	SELECTpid,client_addr AS cl_addr,client_port AS cl_
114965		-1	clickca~	postgres	pgscv	client back~			active	00:00:00	00:00:00	00:00:00	SELECT current_database() AS datname, schemaname, r

now() - pg_postmaster_start_time()

Uptime

Подключения

Автовакуум

Долгие транзакции

```
pgcenter: 2019-01-31 04:04:25, load average: 7.27, 6.19, 5.72
%cpu: 11.0 us, 1.7 sy, 16.1 ni, 70.6 id, 0.1 wa, 0.0 hi, 0.5 si, 0.0 st
MiB mem: 245854 total, 2283 free, 192521 used, 51050 buff/cached
MiB swap: 65531 total, 62647 free, 2884 used, 6/0 dirty/writeback
```

```
state [ok]: /var/run/postgre:5432 postgres@postgres (ver: 10.5, up 150 days 20:32:55, recovery: f)
activity:120/300 conns, 0/0 prepared, 98 idle, 11 idle_xact, 11 active, 0 waiting, 0 others
autovacuum: 0/10 workers/max, 0 manual, 0 wraparound, 00:00:00 vac_maxtime
statements: 8281 stmt/s, 0.370 stmt_avgtime, 00:01:36 xact_maxtime, 00:00:00 prep_maxtime
```

pid	cl_addr	cl_port	datname	username	appname	backend_type	wait_etype	wait_event	state	xact_age	query_age	change_age	query
58427	172.31.~	58410	clickca~	postgres		client back~			active	00:00:00	00:00:00	00:00:00	SELECT "id", "id", "name" FROM "categories" WHERE "
58320	172.31.~	58346	clickca~	postgres		client back~			active	00:00:00	00:00:00	00:00:00	SELECT "id", "id", "name", "url", "domain", "enable
45803	127.0.0~	41844	clickca~	clickca~		client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	SELECT "job_stats_master".* FROM "job_stats_master"
109276	127.0.0~	46012	clickca~	clickca~	sidekiq~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	UPDATE "jobs" SET "url" = 'https://www.collegerecru
109275	127.0.0~	46010	clickca~	clickca~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:01:16	00:01:15	00:01:15	select setting0_.id as id1_32_0_, setting0_.allow_z
103420	127.0.0~	45636	clickca~	clickca~	sidekiq~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	UPDATE "employer_mtd_reports" SET "fields" = '{cli
103418	127.0.0~	45632	clickca~	clickca~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	select jobcompani0_.matching_configuration_id as ma
103414	127.0.0~	45630	clickca~	clickca~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	select setting0_.id as id1_32_0_, setting0_.allow_z
103101	127.0.0~	45588	clickca~	clickca~		client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	SELECT "job_stats_master".* FROM "job_stats_master"
102458	127.0.0~	45526	clickca~	clickca~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:00:24	00:00:24	00:00:24	select jobcompani0_.matching_configuration_id as ma
100224	127.0.0~	45338	clickca~	clickca~	sidekiq~	client back~			active	00:00:00	00:00:00	00:00:00	SELECT "job_group_exchange_weekly_budget_progresses
94402	127.0.0~	45054	clickca~	clickca~	sidekiq~	client back~			active	00:00:00	00:00:00	00:00:00	SELECT "job_locations".* FROM "job_locations" WHERE
94388	127.0.0~	45052	clickca~	clickca~	sidekiq~	client back~			active	00:00:00	00:00:00	00:00:00	SELECT "feed_update_histories".* FROM "feed_update_
94387	127.0.0~	45050	clickca~	clickca~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:01:36	00:01:36	00:01:36	select job0_.id as id1_25_0_, jobcounter1_.job_refe
76136	127.0.0~	43948	clickca~	clickca~	sidekiq~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	UPDATE "jobs" SET "url" = 'https://www.collegerecru
72388	127.0.0~	43708	clickca~	clickca~		client back~			active	00:00:00	00:00:00	00:00:00	SELECT "job_stats_master".* FROM "job_stats_master"
67547	127.0.0~	43362	clickca~	clickca~	sidekiq~	client back~			active	00:00:00	00:00:00	00:00:00	SELECT "exchanges".* FROM "exchanges" WHERE "exchan
113835	127.0.0~	46326	clickca~	clickca~		client back~			idle in transaction	00:00:00	00:00:00	00:00:00	SELECT "jobs".* FROM "jobs" WHERE "jobs"."job_refer
57120	127.0.0~	42542	clickca~	clickca~	sidekiq~	client back~			active	00:00:00	00:00:00	00:00:00	SELECT "job_group_weekly_budget_progresses".* FROM
113917		-1	clickca~	postgres	pgcenter	client back~			active	00:00:00	00:00:00	00:00:00	SELECTpid,client_addr AS cl_addr,client_port AS cl_
114965		-1	clickca~	postgres	pgscv	client back~			active	00:00:00	00:00:00	00:00:00	SELECT current_database() AS datname, schemaname, r

pg_stat_activity.state, wait_event_type

Uptime

Подключения

Автовакуум

Долгие транзакции

```
pgcenter: 2019-01-31 04:04:25, load average: 7.27, 6.19, 5.72
%cpu: 11.0 us, 1.7 sy, 16.1 ni, 70.6 id, 0.1 wa, 0.0 hi, 0.5 si, 0.0 st
MiB mem: 245854 total, 2283 free, 192521 used, 51050 buff/cached
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```

```
state [ok]: /var/run/postgre:5432 postgres@postgres (ver: 10.5, up 150 days 20:32:55, recovery: f)
activity:120/300 conns, 0/0 prepared, 98 idle, 11 idle_xact, 11 active, 0 waiting, 0 others
autovacuum: 0/10 workers/max, 0 manual, 0 wraparound, 00:00:00 vac_maxtime
statements: 8281 stmt/s, 0.370 stmt_avgtime, 00:01:36 xact_maxtime, 00:00:00 prep_maxtime
```

pid	cl_addr	cl_port	datname	username	appname	backend_type	wait_etype	wait_event	state	xact_age	query_age	change_age	query
58427	172.31.~	58410	clickca~	postgres		client back~			active	00:00:00	00:00:00	00:00:00	SELECT "id", "id", "name" FROM "categories" WHERE "
58320	172.31.~	58346	clickca~	postgres		client back~			active	00:00:00	00:00:00	00:00:00	SELECT "id", "id", "name", "url", "domain", "enable
45803	127.0.0~	41844	clickca~	clickca~		client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	SELECT "job_stats_master".* FROM "job_stats_master"
109276	127.0.0~	46012	clickca~	clickca~	sidekiq~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	UPDATE "jobs" SET "url" = 'https://www.collegerecru
109275	127.0.0~	46010	clickca~	clickca~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:01:16	00:01:15	00:01:15	select setting0_.id as id1_32_0_, setting0_.allow_z
103420	127.0.0~	45636	clickca~	clickca~	sidekiq~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	UPDATE "employer_mtd_reports" SET "fields" = '{cli
103418	127.0.0~	45632	clickca~	clickca~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	select jobcompani0_.matching_configuration_id as ma
103414	127.0.0~	45630	clickca~	clickca~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	select setting0_.id as id1_32_0_, setting0_.allow_z
103101	127.0.0~	45588	clickca~	clickca~		client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	SELECT "job_stats_master".* FROM "job_stats_master"
102458	127.0.0~	45526	clickca~	clickca~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:00:24	00:00:24	00:00:24	select jobcompani0_.matching_configuration_id as ma
100224	127.0.0~	45338	clickca~	clickca~	sidekiq~	client back~			active	00:00:00	00:00:00	00:00:00	SELECT "job_group_exchange_weekly_budget_progresses
94402	127.0.0~	45054	clickca~	clickca~	sidekiq~	client back~			active	00:00:00	00:00:00	00:00:00	SELECT "job_locations".* FROM "job_locations" WHERE
94388	127.0.0~	45052	clickca~	clickca~	sidekiq~	client back~			active	00:00:00	00:00:00	00:00:00	SELECT "feed_update_histories".* FROM "feed_update_
94387	127.0.0~	45050	clickca~	clickca~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:01:36	00:01:36	00:01:36	select job0_.id as id1_25_0_, jobcounter1_.job_refe
76136	127.0.0~	43948	clickca~	clickca~	sidekiq~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	UPDATE "jobs" SET "url" = 'https://www.collegerecru
72388	127.0.0~	43708	clickca~	clickca~		client back~			active	00:00:00	00:00:00	00:00:00	SELECT "job_stats_master".* FROM "job_stats_master"
67547	127.0.0~	43362	clickca~	clickca~	sidekiq~	client back~			active	00:00:00	00:00:00	00:00:00	SELECT "exchanges".* FROM "exchanges" WHERE "exchan
113835	127.0.0~	46326	clickca~	clickca~		client back~			idle in transaction	00:00:00	00:00:00	00:00:00	SELECT "jobs".* FROM "jobs" WHERE "jobs"."job_refer
57120	127.0.0~	42542	clickca~	clickca~	sidekiq~	client back~			active	00:00:00	00:00:00	00:00:00	SELECT "job_group_weekly_budget_progresses".* FROM
113917		-1	clickca~	postgres	pgcenter	client back~			active	00:00:00	00:00:00	00:00:00	SELECTpid,client_addr AS cl_addr,client_port AS cl_
114965		-1	clickca~	postgres	pgscv	client back~			active	00:00:00	00:00:00	00:00:00	SELECT current_database() AS datname, schemaname, r

now() - xact_start

Uptime

Подключения

Автовакуум

Долгие транзакции

```
pgcenter: 2019-01-31 04:04:25, load average: 7.27, 6.19, 5.72
%cpu: 11.0 us, 1.7 sy, 16.1 ni, 70.6 id, 0.1 wa, 0.0 hi, 0.5 si, 0.0 st
MiB mem: 245854 total, 2283 free, 192521 used, 51050 buff/cached
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```
state [ok]: /var/run/postgre:5432 postgres@postgres (ver: 10.5, up 150 days 20:32:55, recovery: f)
activity:120/300 conns, 0/0 prepared, 98 idle, 11 idle_xact, 11 active, 0 waiting, 0 others
autovacuum: 0/10 workers/max, 0 manual, 0 wraparound, 00:00:00 vac_maxtime
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```

pid	cl_addr	cl_port	datname	username	appname	backend_type	wait_etype	wait_event	state	xact_age	query_age	change_age	query
58427	172.31.~	58410	clickca~	postgres		client back~			active	00:00:00	00:00:00	00:00:00	SELECT "id", "id", "name" FROM "categories" WHERE "
58320	172.31.~	58346	clickca~	postgres		client back~			active	00:00:00	00:00:00	00:00:00	SELECT "id", "id", "name", "url", "domain", "enable
45803	127.0.0~	41844	clickca~	clickca~		client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	SELECT "job_stats_master".* FROM "job_stats_master"
109276	127.0.0~	46012	clickca~	clickca~	sidekiq~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	UPDATE "jobs" SET "url" = 'https://www.collegerecru
109275	127.0.0~	46010	clickca~	clickca~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:01:16	00:01:15	00:01:15	select setting0_.id as id1_32_0_, setting0_.allow_z
103420	127.0.0~	45636	clickca~	clickca~	sidekiq~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	UPDATE "employer_mtd_reports" SET "fields" = '{cli
103418	127.0.0~	45632	clickca~	clickca~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	select jobcompani0_.matching_configuration_id as ma
103414	127.0.0~	45630	clickca~	clickca~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	select setting0_.id as id1_32_0_, setting0_.allow_z
103101	127.0.0~	45588	clickca~	clickca~		client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	SELECT "job_stats_master".* FROM "job_stats_master"
102458	127.0.0~	45526	clickca~	clickca~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:00:24	00:00:24	00:00:24	select jobcompani0_.matching_configuration_id as ma
100224	127.0.0~	45338	clickca~	clickca~	sidekiq~	client back~			active	00:00:00	00:00:00	00:00:00	SELECT "job_group_exchange_weekly_budget_progresses
94402	127.0.0~	45054	clickca~	clickca~	sidekiq~	client back~			active	00:00:00	00:00:00	00:00:00	SELECT "job_locations".* FROM "job_locations" WHERE
94388	127.0.0~	45052	clickca~	clickca~	sidekiq~	client back~			active	00:00:00	00:00:00	00:00:00	SELECT "feed_update_histories".* FROM "feed_update_
94387	127.0.0~	45050	clickca~	clickca~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:01:36	00:01:36	00:01:36	select job0_.id as id1_25_0_, jobcounter1_.job_refe
76136	127.0.0~	43948	clickca~	clickca~	sidekiq~	client back~	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	UPDATE "jobs" SET "url" = 'https://www.collegerecru
72388	127.0.0~	43708	clickca~	clickca~		client back~			active	00:00:00	00:00:00	00:00:00	SELECT "job_stats_master".* FROM "job_stats_master"
67547	127.0.0~	43362	clickca~	clickca~	sidekiq~	client back~			active	00:00:00	00:00:00	00:00:00	SELECT "exchanges".* FROM "exchanges" WHERE "exchan
113835	127.0.0~	46326	clickca~	clickca~		client back~			idle in transaction	00:00:00	00:00:00	00:00:00	SELECT "jobs".* FROM "jobs" WHERE "jobs"."job_refer
57120	127.0.0~	42542	clickca~	clickca~	sidekiq~	client back~			active	00:00:00	00:00:00	00:00:00	SELECT "job_group_weekly_budget_progresses".* FROM
113917		-1	postgres	postgres	pgcenter	client back~			active	00:00:00	00:00:00	00:00:00	SELECTpid,client_addr AS cl_addr,client_port AS cl_
114965		-1	clickca~	postgres	pgscv	client back~			active	00:00:00	00:00:00	00:00:00	SELECT current_database() AS datname, schemaname, r

now() - xact_start

pgcenter: 2019-01-31 05:05:37, load average: 6.51, 6.44, 5.97
%cpu: 8.8 us, 1.5 sy, 7.9 ni, 81.4 id, 0.1 wa, 0.0 hi, 0.3 si, 0.0 st
MiB mem: 245854 total, 2250 free, 192628 used, 50976 buff/cached
MiB swap: 65531 total, 62627 free, 2904 used, 8/0 dirty/writeback

state [ok]: /var/run/postgre:5432 postgres@postgres (ver: 10.5, up 150 days 21:34:06, recovery: f)
activity:126/300 conns, 0/0 prepared,117 idle, 2 idle_xact, 7 active, 0 waiting, 0 others
autovacuum: 0/10 workers/max, 0 manual, 0 wraparound, 00:00:00 vac_maxtime
statements: 1038 stmt/s, 0.380 stmt_avgtime, 00:00:00 xact_maxtime, 00:00:00 prep_maxtime

datname	commits	rollbacks	reads	hits	returned	fetched	inserts	updates	deletes	conflicts	deadlocks	temp_files	temp_bytes	read_t	write_t	stats_age
clickapp_db	4547	22	403099	1269663	2661099	892434	1199	679	1	0	0	0	0	7351.31	0.00	150 days 21:38:09
template1	2	0	0	77	1054	11	0	0	0	0	0	0	0	0.00	0.00	151 days 12:03:31
template0	2	0	0	77	1054	11	0	0	0	0	0	0	0	0.00	0.00	150 days 21:38:09
postgres	6	0	0	379	5016	118	0	0	0	0	0	0	0	0.00	0.00	152 days 19:10:01
generatedvols	4	0	0	306	2161	118	0	0	0	0	0	0	0	0.00	0.00	150 days 21:38:09
counterblog	2	0	0	85	1560	11	0	0	0	0	0	0	0	0.00	0.00	150 days 21:38:09

pg_stat_database.xact_rollback

- top
- vmstat
- iostat
- nicstat
- pg_stat_activity
- pg_stat_statements
- ...

02

**Нагрузка на
CPU**

pgcenter: 2019-01-31 13:28:27, load average: 58.11, 50.64, 42.27
 %cpu: 85.1 us, 7.0 sy, 0.3 ni, 4.8 id, 0.3 wa, 0.0 hi, 2.5 si, 0.0 st
 MiB mem: 128828 total, 1689 free, 88156 used, 38983 buff/cached
 MiB swap: 15249 total, 13941 free, 1308 used, 7/0 dirty/writeback

state [ok]: /var/run/postgre:5432 postgres@postgres (ver: 10.4, up 210 days 13:36:08, recovery: f)
 activity:101/200 conns, 0/0 prepared, 43 idle, 20 idle_xact, 38 active, 0 waiting, 0 others
 autovacuum: 0/8 workers/max, 0 manual, 0 wraparound, 00:00:00 vac_maxtime
 statements: 56252 stmt/s, 0.120 stmt_avgtime, 00:00:15 xact_maxtime, 00:00:00 prep_maxtime

pid	cl_addr	cl_port	datname	username	appname	backend_type	wait_etype	wait_event	state	xact_age	query_age	change_age	query
23654		-1	uchi_lo~	uchi	bin/rai~	client backend	IO	DataFileRead	active	00:00:15	00:00:15	00:00:15	WITH dt_data AS (SELECT schools.id, s
32714		-1	uchi_lo~	uchi	bin/rai~	client backend	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	SELECT COUNT(*) FROM "students" INNER
32164		-1	uchi_lo~	uchi	bin/rai~	client backend			idle in transaction	00:00:00	00:00:00	00:00:00	SELECT "cards".* FROM "cards" WHERE "c
32107		-1	uchi_lo~	uchi	bin/rai~	client backend			active	00:00:00	00:00:00	00:00:00	SELECT "student_class_goals".* FROM "s
31348		-1	uchi_lo~	uchi	bin/rai~	client backend	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	SELECT COUNT(*) FROM "students" INNER
31242		-1	uchi_lo~	uchi	bin/rai~	client backend			active	00:00:00	00:00:00	00:00:00	SELECT "students".* FROM "students" WHI
31229		-1	uchi_lo~	uchi		client backend			active	00:00:00	00:00:00	00:00:00	SELECT 1 AS one FROM "students_annonc
30808		-1	postgres	postgres	pgcenter	client backend			active	00:00:00	00:00:00	00:00:00	SELECTpid,client_addr AS cl_addr,client
30787		-1	uchi_dj	uchi		client backend	LWLock	ProcArrayLock	active	00:00:00	00:00:00	00:00:00	UPDATE "delayed_jobs" SET locked_at =
30744		-1	uchi_lo~	uchi		client backend	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	SELECT "achievements".* FROM "achievem
29745		-1	uchi_lo~	uchi		client backend			active	00:00:00	00:00:00	00:00:00	SELECT "subgroup_invitations".* FROM "
29740		-1	uchi_lo~	uchi		client backend	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	SELECT "sessions".* FROM "sessions" WHI
29296		-1	uchi_lo~	uchi	bin/rai~	client backend	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	SELECT "sessions".* FROM "sessions" WHI
29104		-1	uchi_lo~	uchi		client backend			active	00:00:00	00:00:00	00:00:00	SELECT "students".* FROM "students" WHI
28371		-1	uchi_lo~	uchi	bin/rai~	client backend	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	INSERT INTO "beads_exercise_finish_suc
28347		-1	uchi_lo~	uchi		client backend	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	SELECT "achievements".* FROM "achievem

pgcenter: 2019-01-31 13:28:27, load average: 58.11, 50.64, 42.27
 %cpu: 85.1 us, 7.0 sy, 0.3 ni, 4.8 id, 0.3 wa, 0.0 hi, 2.5 si, 0.0 st
 MiB mem: 128828 total, 1689 free, 88156 used, 38983 buff/cached
 MiB swap: 15249 total, 13941 free, 1308 used, 7/0 dirty/writeback

state [ok]: /var/run/postgre:5432 postgres@postgres (ver: 10.4, up 210 days 13:36:08, recovery: f)
 activity:101/200 conns, 0/0 prepared, 43 idle, 20 idle_xact, 38 active, 0 waiting, 0 others
 autovacuum: 0/8 workers/max, 0 manual, 0 wraparound, 00:00:00 vac_maxtime
 statements: 56252 stmt/s, 0.120 stmt_avgtime, 00:00:15 xact_maxtime, 00:00:00 prep_maxtime

pid	cl_addr	cl_port	datname	username	appname	backend_type	wait_etype	wait_event	state	xact_age	query_age	change_age	query
23654		-1	uchi_lo~	uchi	bin/rai~	client backend	IO	DataFileRead	active	00:00:15	00:00:15	00:00:15	WITH dt_data AS (SELECT schools.id, s
32714		-1	uchi_lo~	uchi	bin/rai~	client backend	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	SELECT COUNT(*) FROM "students" INNER
32164		-1	uchi_lo~	uchi	bin/rai~	client backend			idle in transaction	00:00:00	00:00:00	00:00:00	SELECT "cards".* FROM "cards" WHERE "c
32107		-1	uchi_lo~	uchi	bin/rai~	client backend			active	00:00:00	00:00:00	00:00:00	SELECT "student_class_goals".* FROM "s
31348		-1	uchi_lo~	uchi	bin/rai~	client backend	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	SELECT COUNT(*) FROM "students" INNER
31242		-1	uchi_lo~	uchi	bin/rai~	client backend			active	00:00:00	00:00:00	00:00:00	SELECT "students".* FROM "students" WHI
31229		-1	uchi_lo~	uchi		client backend			active	00:00:00	00:00:00	00:00:00	SELECT 1 AS one FROM "students_annonc
30808		-1	postgres	postgres	pgcenter	client backend			active	00:00:00	00:00:00	00:00:00	SELECTpid,client_addr AS cl_addr,client
30787		-1	uchi_dj	uchi		client backend	LWLock	ProcArrayLock	active	00:00:00	00:00:00	00:00:00	UPDATE "delayed_jobs" SET locked_at =
30744		-1	uchi_lo~	uchi		client backend	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	SELECT "achievements".* FROM "achievem
29745		-1	uchi_lo~	uchi		client backend			active	00:00:00	00:00:00	00:00:00	SELECT "subgroup_invitations".* FROM "
29740		-1	uchi_lo~	uchi		client backend	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	SELECT "sessions".* FROM "sessions" WHI
29296		-1	uchi_lo~	uchi	bin/rai~	client backend	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	SELECT "sessions".* FROM "sessions" WHI
29104		-1	uchi_lo~	uchi		client backend			active	00:00:00	00:00:00	00:00:00	SELECT "students".* FROM "students" WHI
28371		-1	uchi_lo~	uchi	bin/rai~	client backend	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	INSERT INTO "beads_exercise_finish_suc
28347		-1	uchi_lo~	uchi		client backend	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	SELECT "achievements".* FROM "achievem

cpu usage: 85.1 us

pgcenter: 2019-01-31 13:28:27, load average: 58.11, 50.64, 42.27
%cpu: 85.1 us, 7.0 sy, 0.3 ni, 4.8 id, 0.3 wa, 0.0 hi, 2.5 si, 0.0 st
MiB mem: 128828 total, 1689 free, 88156 used, 38983 buff/cached
MiB swap: 15249 total, 13941 free, 1308 used, 7/0 dirty/writeback

state [ok]: /var/run/postgre:5432 postgres@postgres (ver: 10.4, up 210 days 13:36:08, recovery: f)
activity:101/200 conns, 0/0 prepared, 43 idle, 20 idle xact, 38 active, 0 waiting, 0 others
autovacuum: 0/8 workers/max, 0 manual, 0 wraparound, 00:00:00 vac_maxtime
statements: 56252 stmt/s, 0.120 stmt_avgtime, 00:00:15 xact maxtime, 00:00:00 prep_maxtime

pid	cl_addr	cl_port	datname	username	appname	backend_type	wait_etype	wait_event	state	xact_age	query_age	change_age	query
23654		-1	uchi_lo~	uchi	bin/rai~	client backend	IO	DataFileRead	active	00:00:15	00:00:15	00:00:15	WITH dt_data AS (SELECT schools.id, s
32714		-1	uchi_lo~	uchi	bin/rai~	client backend	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	SELECT COUNT(*) FROM "students" INNER
32164		-1	uchi_lo~	uchi	bin/rai~	client backend			idle in transaction	00:00:00	00:00:00	00:00:00	SELECT "cards".* FROM "cards" WHERE "c
32107		-1	uchi_lo~	uchi	bin/rai~	client backend			active	00:00:00	00:00:00	00:00:00	SELECT "student_class_goals".* FROM "s
31348		-1	uchi_lo~	uchi	bin/rai~	client backend	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	SELECT COUNT(*) FROM "students" INNER
31242		-1	uchi_lo~	uchi	bin/rai~	client backend			active	00:00:00	00:00:00	00:00:00	SELECT "students".* FROM "students" WH
31229		-1	uchi_lo~	uchi		client backend			active	00:00:00	00:00:00	00:00:00	SELECT 1 AS one FROM "students_annonc
30808		-1	postgres	postgres	pgcenter	client backend			active	00:00:00	00:00:00	00:00:00	SELECTpid,client_addr AS cl_addr,client
30787		-1	uchi_dj	uchi		client backend	LWLock	ProcArrayLock	active	00:00:00	00:00:00	00:00:00	UPDATE "delayed_jobs" SET locked_at =
30744		-1	uchi_lo~	uchi		client backend	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	SELECT "achievements".* FROM "achievem
29745		-1	uchi_lo~	uchi		client backend			active	00:00:00	00:00:00	00:00:00	SELECT "subgroup_invitations".* FROM "
29740		-1	uchi_lo~	uchi		client backend	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	SELECT "sessions".* FROM "sessions" WH
29296		-1	uchi_lo~	uchi	bin/rai~	client backend	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	SELECT "sessions".* FROM "sessions" WH
29104		-1	uchi_lo~	uchi		client backend			active	00:00:00	00:00:00	00:00:00	SELECT "students".* FROM "students" WH
28371		-1	uchi_lo~	uchi	bin/rai~	client backend	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	INSERT INTO "beads_exercise_finish_suc
28347		-1	uchi_lo~	uchi		client backend	Client	ClientRead	idle in transaction	00:00:00	00:00:00	00:00:00	SELECT "achievements".* FROM "achievem

cpu usage: 85.1 us

active: 38

waiting: 0

idle_xact: 20 -- xact_maxtime: 00:00:15

pgcenter: 2019-01-31 13:29:15, load average: 53.83, 50.91, 42.82
%cpu: 84.1 us, 6.5 sy, 0.4 ni, 6.7 id, 0.4 wa, 0.0 hi, 1.9 si, 0.0 st
MiB mem: 128828 total, 1792 free, 88227 used, 38809 buff/cached
MiB swap: 15249 total, 13941 free, 1308 used, 1/0 dirty/writeback

state [ok]: /var/run/postgre:5432 postgres@postgres (ver: 10.4, up 210 days 13:36:56, recovery: f)
activity:105/200 conns, 0/0 prepared, 52 idle, 20 idle_xact, 33 active, 0 waiting, 0 others
autovacuum: 0/8 workers/max, 0 manual, 0 wraparound, 00:00:00 vac_maxtime
statements: 72092 stmt/s, 0.120 stmt_avgtime, 00:00:01 xact_maxtime, 00:00:00 prep_maxtime

user	database	t_all_t	t_read_t	t_write_t	t_cpu_t	all_t	read_t	write_t	cpu_t	calls	queryid	query
uchi	uchi_lo~	02:49:47	00:05:07	00:00:00	02:44:40	3237.00	19	0	3218.00	145	b7451b4~	SELECT COUNT(*) FROM "game_competition_events" INNER JOIN "game_students_competiti
uchi	uchi_lo~	01:56:30	00:02:50	00:00:00	01:53:39	0.00	0	0	0.00	0	2fd1407~	SELECT COUNT(DISTINCT studs.id) FROM (SELECT students.id, COALESCE(
uchi	uchi_lo~	01:21:25	01:09:38	00:00:00	00:11:47	105.00	26.00	0	79	28	9836261~	SELECT COUNT(*) FROM "students" INNER JOIN "sessions" ON "sessions"."student_id" =
uchi	uchi_lo~	00:57:52	00:23:41	00:00:00	00:34:11	320.00	67.00	0	251.00	292	bfbfb7c~	SELECT "sessions".* FROM "sessions" WHERE (grade_id = \$1) AND "sessions"."student_
uchi	uchi_lo~	00:57:16	00:00:00	00:00:00	00:57:16	866.00	0	0	866.00	3	431950a~	SELECT "game_profiles"."nickname", "game_profiles"."student_id" FROM "game_profiles
uchi	uchi_lo~	00:55:58	00:00:00	00:00:00	00:55:58	872.00	0	0	872.00	4	3c24f34~	SELECT COUNT(*) FROM "game_profiles" WHERE "game_profiles"."game_country_id" = \$1 /
uchi	uchi_lo~	00:52:15	00:09:50	00:00:00	00:42:24	0.00	0	0	0.00	0	798a7ca~	WITH current_month_active_students AS (SELECT DISTINCT students.id FROM students
uchi	uchi_lo~	00:50:30	00:00:00	00:00:00	00:50:30	380.00	0	0	380.00	419	8028208~	SELECT "sessions".* FROM "sessions" WHERE "sessions"."student_id" = \$1 AND "sessio
uchi	uchi_lo~	00:43:02	00:00:00	00:00:00	00:43:02	702.00	0	0	703.00	7	72523b7~	SELECT COUNT(*) FROM "game_profiles" WHERE (rating > \$1) /*database:uchi_login,con
uchi	uchi_lo~	00:42:07	00:20:35	00:00:00	00:21:32	227.00	97.00	0	130.00	51	3214413~	SELECT "sessions".* FROM "sessions" WHERE "sessions"."student_id" IN (\$1) /*databa
uchi	uchi_lo~	00:37:07	00:00:00	00:00:00	00:37:07	261.00	0	0	261.00	373	0e20828~	SELECT DISTINCT COUNT(DISTINCT "students"."id") FROM "students" INNER JOIN "grades
uchi	uchi_lo~	00:33:04	00:01:33	00:00:00	00:31:31	155.00	2	0	153.00	662	475797c~	UPDATE "achievements" SET "data" = \$1, "updated_at" = \$2 WHERE "achievements"."id"
uchi_st~	uchi_lo~	00:27:02	00:34:35	00:00:00	-00:07:~	0.00	0.00	0	0	0	df13036~	SELECT "events"."id", "events"."created_at", "events"."updated_at", "events"."seq_
uchi	uchi_lo~	00:25:24	00:00:21	00:00:00	00:25:03	199.00	0	0	199.00	190	9570ab4~	SELECT "students".* FROM "students" LEFT JOIN student_class_goals scg ON scg.studen

cpu usage: 85.1 us

active: 38

waiting: 0

idle_xact: 20 -- xact_maxtime: 00:00:15

total_time: 02:49:47

pg_stat_statements.total_time

pgcenter: 2019-01-31 13:30:14, load average: 53.57, 51.51, 43.54
%cpu: 72.1 us, 6.1 sy, 0.2 ni, 18.5 id, 1.3 wa, 0.0 hi, 1.8 si, 0.0 st
MiB mem: 128828 total, 1489 free, 88365 used, 38974 buff/cached
MiB swap: 15249 total, 13941 free, 1308 used, 5/0 dirty/writeback

state [ok]: /var/run/postgre:5432 postgres@postgres (ver: 10.4, up 210 days 13:37:54, recovery: f)
activity:104/200 conns, 0/0 prepared, 56 idle, 9 idle_xact, 39 active, 0 waiting, 0 others
autovacuum: 1/8 workers/max, 0 manual, 0 wraparound, 00:00:08 vac_maxtime
statements: 63923 stmt/s, 0.120 stmt_avgtime, 00:00:00 xact_maxtime, 00:00:00 prep_maxtime

user	database	t_all_t	t_read_t	t_write_t	t_cpu_t	all_t	read_t	write_t	cpu_t	calls	queryid	query
uchi	uchi_lo~	00:10:30	00:00:00	00:00:00	00:10:29	5159	0	0	5160	1	6a18a00~	SELECT "courses_logs".* FROM "courses_logs" ORDER BY "courses_logs"."id" DESC LIMIT
uchi	uchi_lo~	02:51:18	00:05:08	00:00:00	02:46:09	1147.00	12	0	1135.00	88	b7451b4~	SELECT COUNT(*) FROM "game_competition_events" INNER JOIN "game_students_competitio
uchi	uchi_lo~	00:57:48	00:00:00	00:00:00	00:57:48	989.00	0	0	989.00	4	431950a~	SELECT "game_profiles"."nickname", "game_profiles"."student_id" FROM "game_profiles
uchi	uchi_lo~	00:43:28	00:00:00	00:00:00	00:43:28	429.00	0	0	429.00	4	72523b7~	SELECT COUNT(*) FROM "game_profiles" WHERE (rating > \$1) /*database:uchi_login,con
uchi	uchi_lo~	00:50:44	00:00:00	00:00:00	00:50:44	298.00	0	0	298.00	412	8028208~	SELECT "sessions".* FROM "sessions" WHERE "sessions"."student_id" = \$1 AND "session
uchi	uchi_dj	00:05:19	00:00:00	00:00:00	00:05:19	284	0	0	284	56	6441b4f~	UPDATE "delayed_jobs" SET locked_at = \$1, locked_by = \$2 WHERE id IN (SELECT "delay
uchi	uchi_dj	00:01:29	00:00:00	00:00:00	00:01:29	281	0	0	281	38	3744159~	INSERT INTO "delayed_jobs" ("created_at", "handler", "priority", "queue", "run_at"
uchi	uchi_lo~	00:56:30	00:00:00	00:00:00	00:56:30	277.00	0	0	277.00	4	3c24f34~	SELECT COUNT(*) FROM "game_profiles" WHERE "game_profiles"."game_country_id" = \$1
postgres	postgres	00:00:19	00:00:00	00:00:00	00:00:19	220	0	0	220	1	870c3e5~	SELECT a.rolname AS user,d.datname AS database,date_trunc(\$1, round(sum(p.total_time
uchi	uchi_lo~	00:58:07	00:23:46	00:00:00	00:34:20	318.00	113.00	0	206.00	273	bfbfb7c~	SELECT "sessions".* FROM "sessions" WHERE (grade_id = \$1) AND "sessions"."student_
uchi	uchi_lo~	00:03:35	00:00:08	00:00:00	00:03:26	205	6	0	200	2	64fc169~	SELECT *, \$1 as reward_type, olympiad_group_id as event, \$2 as crm_event_id, \$3::j
uchi	uchi_lo~	01:21:41	01:09:51	00:00:00	00:11:50	1193.00	1005.00	0	189	7	9836261~	SELECT COUNT(*) FROM "students" INNER JOIN "sessions" ON "sessions"."student_id" =
uchi	uchi_lo~	00:42:18	00:20:40	00:00:00	00:21:38	286.00	114.00	0	172.00	48	3214413~	SELECT "sessions".* FROM "sessions" WHERE "sessions"."student_id" IN (\$1) /*databa
uchi	uchi_lo~	00:33:12	00:01:33	00:00:00	00:31:39	165.00	8	0	157.00	637	475797c~	UPDATE "achievements" SET "data" = \$1, "updated_at" = \$2 WHERE "achievements"."id"

cpu usage: 85.1 us

active: 38

waiting: 0

idle_xact: 20 -- xact_maxtime: 00:00:15

total_time: 02:49:47

cpu_time_per_second !!!

Под капотом

- top
- pg_stat_activity
- pg_stat_statements

03

**Нагрузка на
ВВОД-ВЫВОД**

pgcenter: 2019-01-31 08:30:24, load average: 14.98, 11.18, 11.34
%cpu: 1.6 us, 2.1 sy, 20.0 ni, 47.9 id, 27.9 wa, 0.0 hi, 0.6 si, 0.0 st
MiB mem: 245854 total, 2413 free, 191514 used, 51927 buff/cached
MiB swap: 65531 total, 62809 free, 2722 used, 7/0 dirty/writeback

state [ok]: /var/run/postgre:5432 postgres@postgres (ver: 10.5, up 150 days 12:04:54, recovery: t)
activity: 46/300 conns, 0/0 prepared, 39 idle, 0 idle_xact, 7 active, 0 waiting, 0 others
autovacuum: 0/10 workers/max, 0 manual, 0 wraparound, 00:00:00 vac_maxtime
statements: 2591 stmt/s, 3.710 stmt_avgtime, 00:01:05 xact_maxtime, 00:00:00 prep_maxtime

pid	cl_addr	cl_port	datname	username	appname	backend_type	wait_etype	wait_event	state	xact_age	query_age	change_age	query
54319			clickca~	clickca~	sidekiq~	background worker	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
54324			clickca~	clickca~	sidekiq~	background worker	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
54323			clickca~	clickca~	sidekiq~	background worker	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
54322			clickca~	clickca~	sidekiq~	background worker	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
54321			clickca~	clickca~	sidekiq~	background worker	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
54320			clickca~	clickca~	sidekiq~	background worker	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
54318			clickca~	clickca~	sidekiq~	background worker	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
54325			clickca~	clickca~	sidekiq~	background worker	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
39156	127.0.0~	49562	clickca~	clickca~	sidekiq~	client backend	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
32430	127.0.0~	49318	clickca~	clickca~	sidekiq~	client backend			active	00:00:05	00:00:05	00:00:05	SELECT "job_group_daily_reports".* FROM "job
53858	127.0.0~	49856	clickca~	clickca~	sidekiq~	client backend	IO	DataFileRead	active	00:00:00	00:00:00	00:00:00	SELECT "job_stats_master".* FROM "job_stats_
36676	127.0.0~	49460	clickca~	clickca~	sidekiq~	client backend	IO	DataFileRead	active	00:00:00	00:00:00	00:00:00	SELECT "jobs"."job_reference", "jobs"."paren

pgcenter: 2019-01-31 08:30:24, load average: 14.98, 11.18, 11.34
%cpu: 1.6 us, 2.1 sy, 20.0 ni, 47.9 id, 27.9 wa, 0.0 hi, 0.6 si, 0.0 st
MiB mem: 245854 total, 2413 free, 191514 used, 51927 buff/cached
MiB swap: 65531 total, 62809 free, 2722 used, 7/0 dirty/writeback

state [ok]: /var/run/postgre:5432 postgres@postgres (ver: 10.5, up 150 days 12:04:54, recovery: t)
activity: 46/300 conns, 0/0 prepared, 39 idle, 0 idle_xact, 7 active, 0 waiting, 0 others
autovacuum: 0/10 workers/max, 0 manual, 0 wraparound, 00:00:00 vac_maxtime
statements: 2591 stmt/s, 3.710 stmt_avgtime, 00:01:05 xact_maxtime, 00:00:00 prep_maxtime

pid	cl_addr	cl_port	datname	username	appname	backend_type	wait_etype	wait_event	state	xact_age	query_age	change_age	query
54319			clickca~	clickca~	sidekiq~	background worker	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
54324			clickca~	clickca~	sidekiq~	background worker	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
54323			clickca~	clickca~	sidekiq~	background worker	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
54322			clickca~	clickca~	sidekiq~	background worker	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
54321			clickca~	clickca~	sidekiq~	background worker	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
54320			clickca~	clickca~	sidekiq~	background worker	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
54318			clickca~	clickca~	sidekiq~	background worker	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
54325			clickca~	clickca~	sidekiq~	background worker	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
39156	127.0.0~	49562	clickca~	clickca~	sidekiq~	client backend	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
32430	127.0.0~	49318	clickca~	clickca~	sidekiq~	client backend			active	00:00:05	00:00:05	00:00:05	SELECT "job_group_daily_reports".* FROM "job
53858	127.0.0~	49856	clickca~	clickca~	sidekiq~	client backend	IO	DataFileRead	active	00:00:00	00:00:00	00:00:00	SELECT "job_stats_master".* FROM "job_stats_
36676	127.0.0~	49460	clickca~	clickca~	sidekiq~	client backend	IO	DataFileRead	active	00:00:00	00:00:00	00:00:00	SELECT "jobs"."job_reference", "jobs"."paren

cpu usage: 27.9 wa

```

pgcenter: 2019-01-31 08:30:24, load average: 14.98, 11.18, 11.34
%cpu: 1.6 us, 2.1 sy, 20.0 ni, 47.9 id, 27.9 wa, 0.0 hi, 0.6 si, 0.0 st
MiB mem: 245854 total, 2413 free, 191514 used, 51927 buff/cached
MiB swap: 65531 total, 62809 free, 2722 used, 7/0 dirty/writeback

```

```

state [ok]: /var/run/postgre:5432 postgres@postgres (ver: 10.5, up 150 days 12:04:54, recovery: t)
activity: 46/300 conns, 0/0 prepared, 39 idle, 0 idle_xact, 7 active, 0 waiting, 0 others
autovacuum: 0/10 workers/max, 0 manual, 0 wraparound, 00:00:00 vac_maxtime
statements: 2591 stmt/s, 3.710 stmt_avgtime, 00:01:05 xact_maxtime, 00:00:00 prep_maxtime

```

pid	cl_addr	cl_port	datname	username	appname	backend_type	wait_etype	wait_event	state	xact_age	query_age	change_age	query
54319			clickca~	clickca~	sidekiq~	background worker	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
54324			clickca~	clickca~	sidekiq~	background worker	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
54323			clickca~	clickca~	sidekiq~	background worker	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
54322			clickca~	clickca~	sidekiq~	background worker	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
54321			clickca~	clickca~	sidekiq~	background worker	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
54320			clickca~	clickca~	sidekiq~	background worker	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
54318			clickca~	clickca~	sidekiq~	background worker	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
54325			clickca~	clickca~	sidekiq~	background worker	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
39156	127.0.0~	49562	clickca~	clickca~	sidekiq~	client backend	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
32430	127.0.0~	49318	clickca~	clickca~	sidekiq~	client backend			active	00:00:05	00:00:05	00:00:05	SELECT "job_group_daily_reports".* FROM "job
53858	127.0.0~	49856	clickca~	clickca~	sidekiq~	client backend	IO	DataFileRead	active	00:00:00	00:00:00	00:00:00	SELECT "job_stats_master".* FROM "job_stats
36676	127.0.0~	49460	clickca~	clickca~	sidekiq~	client backend	IO	DataFileRead	active	00:00:00	00:00:00	00:00:00	SELECT "jobs"."job_reference", "jobs"."paren

cpu usage: 27.9 wa
background worker: 8

```

pgcenter: 2019-01-31 08:30:24, load average: 14.98, 11.18, 11.34
%cpu: 1.6 us, 2.1 sy, 20.0 ni, 47.9 id, 27.9 wa, 0.0 hi, 0.6 si, 0.0 st
MiB mem: 245854 total, 2413 free, 191514 used, 51927 buff/cached
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```

```

state [ok]: /var/run/postgre:5432 postgres@postgres (ver: 10.5, up 150 days 12:04:54, recovery: t)
activity: 46/300 conns, 0/0 prepared, 39 idle, 0 idle_xact, 7 active, 0 waiting, 0 others
autovacuum: 0/10 workers/max, 0 manual, 0 wraparound, 00:00:00 vac_maxtime
statements: 2591 stmt/s, 3.710 stmt_avgtime, 00:01:05 xact_maxtime, 00:00:00 prep_maxtime

```

pid	cl_addr	cl_port	datname	username	appname	backend_type	wait_etype	wait_event	state	xact_age	query_age	change_age	query
54319			clickca~	clickca~	sidekiq~	background worker	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
54324			clickca~	clickca~	sidekiq~	background worker	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
54323			clickca~	clickca~	sidekiq~	background worker	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
54322			clickca~	clickca~	sidekiq~	background worker	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
54321			clickca~	clickca~	sidekiq~	background worker	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
54320			clickca~	clickca~	sidekiq~	background worker	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
54318			clickca~	clickca~	sidekiq~	background worker	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
54325			clickca~	clickca~	sidekiq~	background worker	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
39156	127.0.0~	49562	clickca~	clickca~	sidekiq~	client backend	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
32430	127.0.0~	49318	clickca~	clickca~	sidekiq~	client backend			active	00:00:05	00:00:05	00:00:05	SELECT "job_group_daily_reports".* FROM "job
53858	127.0.0~	49856	clickca~	clickca~	sidekiq~	client backend	IO	DataFileRead	active	00:00:00	00:00:00	00:00:00	SELECT "job_stats_master".* FROM "job_stats_
36676	127.0.0~	49460	clickca~	clickca~	sidekiq~	client backend	IO	DataFileRead	active	00:00:00	00:00:00	00:00:00	SELECT "jobs"."job_reference", "jobs"."paren

```

cpu usage: 27.9 wa
background worker: 8
wait_etype: IO
wait_event: DataFileRead

```

pgcenter: 2019-01-31 08:30:24, load average: 14.98, 11.18, 11.34
 %cpu: 1.6 us, 2.1 sy, 20.0 ni, 47.9 id, 27.9 wa, 0.0 hi, 0.6 si, 0.0 st
 MiB mem: 245854 total, 2413 free, 191514 used, 51927 buff/cached
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state [ok]: /var/run/postgre:5432 postgres@postgres (ver: 10.5, up 150 days 12:04:54, recovery: t)
 activity: 46/300 conns, 0/0 prepared, 39 idle, 0 idle_xact, 7 active, 0 waiting, 0 others
 autovacuum: 0/10 workers/max, 0 manual, 0 wraparound, 00:00:00 vac_maxtime
 statements: 2591 stmt/s, 3.710 stmt_avgtime, 00:01:05 xact_maxtime, 00:00:00 prep_maxtime

pid	cl_addr	cl_port	datname	username	appname	backend_type	wait_etype	wait_event	state	xact_age	query_age	change_age	query
54319			clickca~	clickca~	sidekiq~	background worker	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
54324			clickca~	clickca~	sidekiq~	background worker	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
54323			clickca~	clickca~	sidekiq~	background worker	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
54322			clickca~	clickca~	sidekiq~	background worker	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
54321			clickca~	clickca~	sidekiq~	background worker	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
54320			clickca~	clickca~	sidekiq~	background worker	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
54318			clickca~	clickca~	sidekiq~	background worker	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
54325			clickca~	clickca~	sidekiq~	background worker	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
39156	127.0.0~	49562	clickca~	clickca~	sidekiq~	client backend	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
32430	127.0.0~	49318	clickca~	clickca~	sidekiq~	client backend			active	00:00:05	00:00:05	00:00:05	SELECT "job_group_daily_reports".* FROM "job
53858	127.0.0~	49856	clickca~	clickca~	sidekiq~	client backend	IO	DataFileRead	active	00:00:00	00:00:00	00:00:00	SELECT "job_stats_master".* FROM "job_stats_
36676	127.0.0~	49460	clickca~	clickca~	sidekiq~	client backend	IO	DataFileRead	active	00:00:00	00:00:00	00:00:00	SELECT "jobs"."job_reference", "jobs"."paren

Device:	rrqm/s	wrqm/s	r/s	w/s	rMB/s	wMB/s	avgrq-sz	avgqu-sz	await	r_await	w_await	%util
xvda	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
xvda1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
xvdb	0.00	0.00	2829.29	69.87	166.75	0.55	118.18	2.94	1.01	1.02	0.69	99.41
nvme3n1	0.00	0.00	762.34	738.91	6.15	11.55	24.14	0.27	0.18	0.15	0.20	13.89
nvme3n1p1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nvme3n1p2	0.00	0.00	762.34	738.91	6.15	11.55	24.14	0.27	0.18	0.15	0.20	13.89
nvme0n1	0.00	0.00	764.02	753.14	6.45	11.45	24.16	0.42	0.28	0.15	0.40	14.56
nvme0n1p1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

cpu usage: 27.9 wa
 background worker: 8
 wait_etype: IO
 wait_event: DataFileRead
 xvdb block device:
 %util: 99.41

pgcenter: 2019-01-31 08:30:24, load average: 14.98, 11.18, 11.34
 %cpu: 1.6 us, 2.1 sy, 20.0 ni, 47.9 id, 27.9 wa, 0.0 hi, 0.6 si, 0.0 st
 MiB mem: 245854 total, 2413 free, 191514 used, 51927 buff/cached
 MiB swap: 65531 total, 62809 free, 2722 used, 7/0 dirty/writeback

state [ok]: /var/run/postgre:5432 postgres@postgres (ver: 10.5, up 150 days 12:04:54, recovery: t)
 activity: 46/300 conns, 0/0 prepared, 39 idle, 0 idle_xact, 7 active, 0 waiting, 0 others
 autovacuum: 0/10 workers/max, 0 manual, 0 wraparound, 00:00:00 vac_maxtime
 statements: 2591 stmt/s, 3.710 stmt_avgtime, 00:01:05 xact_maxtime, 00:00:00 prep_maxtime

pid	cl_addr	cl_port	datname	username	appname	backend_type	wait_etype	wait_event	state	xact_age	query_age	change_age	query
54319			clickca~	clickca~	sideiq~	background worker	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
54324			clickca~	clickca~	sideiq~	background worker	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
54323			clickca~	clickca~	sideiq~	background worker	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
54322			clickca~	clickca~	sideiq~	background worker	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
54321			clickca~	clickca~	sideiq~	background worker	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
54320			clickca~	clickca~	sideiq~	background worker	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
54318			clickca~	clickca~	sideiq~	background worker	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
54325			clickca~	clickca~	sideiq~	background worker	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
39156	127.0.0~	49562	clickca~	clickca~	sideiq~	client backend	IO	DataFileRead	active	00:01:05	00:01:05	00:01:05	SELECT device, organic, paid, global_action,
32430	127.0.0~	49318	clickca~	clickca~	sideiq~	client backend			active	00:00:05	00:00:05	00:00:05	SELECT "job_group_daily_reports".* FROM "job
53858	127.0.0~	49856	clickca~	clickca~	sideiq~	client backend	IO	DataFileRead	active	00:00:00	00:00:00	00:00:00	SELECT "job_stats_master".* FROM "job_stats_
36676	127.0.0~	49460	clickca~	clickca~	sideiq~	client backend	IO	DataFileRead	active	00:00:00	00:00:00	00:00:00	SELECT "jobs"."job_reference", "jobs"."paren

Device:	rrqm/s	wrqm/s	r/s	w/s	rMB/s	wMB/s	avgrq-sz	avgqu-sz	await	r_await	w_await	%util
xvda	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
xvda1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
xvdb	0.00	0.00	2829.29	69.87	166.75	0.55	118.18	2.94	1.01	1.02	0.69	99.41
nvme3n1	0.00	0.00	762.34	738.91	6.15	11.55	24.14	0.27	0.18	0.15	0.20	13.89
nvme3n1p1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
nvme3n1p2	0.00	0.00	762.34	738.91	6.15	11.55	24.14	0.27	0.18	0.15	0.20	13.89
nvme0n1	0.00	0.00	764.02	753.14	6.45	11.45	24.16	0.42	0.28	0.15	0.40	14.56
nvme0n1p1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

cpu usage: 27.9 wa
 background worker: 8
 wait_etype: IO
 wait_event: DataFileRead
 xvdb block device:
 %util: 99.41
 await: 1.01

```
pgcenter: 2019-01-31 08:32:25, load average: 13.48, 12.51, 11.85
%cpu: 2.0 us, 4.5 sy, 13.2 ni, 76.5 id, 3.5 wa, 0.0 hi, 0.3 si, 0.0 st
MiB mem: 245854 total, 3491 free, 191804 used, 50559 buff/cached
MiB swap: 65531 total, 62809 free, 2722 used, 1/0 dirty/writeback
```

```
state [ok]: /var/run/postgre:5432 postgres@postgres (ver: 10.5, up 150 days 12:06:50, recovery: t)
activity: 54/300 conns, 0/0 prepared, 46 idle, 0 idle_xact, 8 active, 0 waiting, 0 others
autovacuum: 0/10 workers/max, 0 manual, 0 wraparound, 00:00:00 vac_maxtime
statements: 2301 stmt/s, 3.720 stmt_avgtime, 00:00:02 xact_maxtime, 00:00:00 prep_maxtime
```

user	database	t_all_t	t_read_t	t_write_t	t_cpu_t	all_t	read_t	write_t	cpu_t	calls	queryid	query
clickca~	clickca~	01:56:24	00:53:35	00:00:00	01:02:48	0.00	0.00	0	0.00	0	a2edd09~	SELECT device, organic, paid, global_action, job_group_id, count(*), sum(coal
clickca~	clickca~	00:48:42	00:46:20	00:00:00	00:02:21	0.00	0.00	0	0	0	8535543~	SELECT "jobs"."job_reference" FROM "jobs" WHERE "jobs"."employer_id" = \$1 AND
clickca~	clickca~	00:22:06	00:43:02	00:00:00	-00:20:~	0.00	0.00	0	0.00	0	4e5902b~	SELECT sum((job_performances.total_apply_time ->> \$1)::float), sum((job_perfo
clickca~	clickca~	00:10:44	00:24:02	00:00:00	-00:13:~	0	0.00	0	0	0	e9be53e~	SELECT COUNT(*) AS count_all, status AS status FROM "jobs" WHERE ("jobs"."sta
clickca~	clickca~	00:04:30	00:21:47	00:00:00	-00:17:~	0	0.00	0	0.00	0	a7d90e9~	SELECT COUNT(*) AS count_all, status AS status FROM "jobs" WHERE "jobs"."empl
clickca~	clickca~	00:36:44	00:20:09	00:00:00	00:16:35	113.00	82.50	0	31	3	41e07e8~	SELECT jobs.*, job_bodies.id AS job_body_id FROM "jobs" LEFT JOIN job_bodies
clickca~	clickca~	00:20:54	00:19:22	00:00:00	00:01:32	1756.00	1521.50	0	235	56	05f4f89~	SELECT "job_stats_master".* FROM "job_stats_master" WHERE (job_stats_master.c
clickca~	clickca~	02:51:18	00:15:09	00:00:00	02:36:08	1755.00	339	0	1416.00	17	4de29f3~	SELECT "employer_job_board_daily_reports".* FROM "employer_job_board_daily_re
clickca~	clickca~	10:20:03	00:12:03	00:00:00	10:08:00	0.00	0	0	0.00	0	a4078c0~	SELECT job_group_id, sum(((SELECT(SELECT json_object_agg(field_name, field_va
clickca~	clickca~	02:40:41	00:11:01	00:00:00	02:29:40	1276.00	383	0	892.50	21	2ff2a36~	SELECT device, organic, paid, global_action, job_stats_master.employer_id, co
clickca~	clickca~	00:10:30	00:09:35	00:00:00	00:00:55	0	0	0	0	0	2b543fd~	SELECT "jobs"."id", "jobs"."title", "jobs"."job_group_id", "jobs"."status", "
clickca~	clickca~	00:50:04	00:09:13	00:00:00	00:40:50	0.00	0	0	0.00	0	3b36a8c~	SELECT "job_stats_master"."ip_matching_id", "job_stats_master"."user_ip_inet"
clickca~	clickca~	00:09:44	00:07:32	00:00:00	00:02:12	4	4	0	0	0	33bc17d~	SELECT "job_stats_bots_master"."job_reference", "job_stats_bots_master"."devi

pg_stat_statements.blk_read_time

Отчеты

summary:

```
total_time: 39:53:38, cpu_time: 33:41:44, io_time: 06:11:54 (ALL: 100%, CPU: 84.46%, IO: 15.54%)
total queries: 38,548,614
```

query info:

```
username:          clickcast_background,
datname:           clickcast,
calls (relative to all queries): 403 (0%),
rows (relative to all queries): 8,096,384 (0.28%),
total time (relative to all queries): 00:14:58 (ALL: 0.6%, CPU: 0.6%, IO: 0.8%),
average time (only for this query): 2230.32ms, cpu_time: 1774.81ms, io_time: 455.51ms, (ALL: 100%, CPU: 79.6%, IO: 20.4%),
```

query text (id: a2edd090f1):

```
SELECT device, organic, paid, global_action, job_group_id, count(*),
sum(coalesce(price, $1)), DATE(created_at AT TIME ZONE $2 AT TIME ZONE $3),
```

Отчеты

summary:

```
total_time: 39:53:38, cpu_time: 33:41:44, io_time: 06:11:54 (ALL: 100%, CPU: 84.46%, IO: 15.54%)
total queries: 38,548,614
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summary:

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query text (id: a2edd090f1):

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SELECT device, organic, paid, global_action, job_group_id, count(*),
sum(coalesce(price, $1)), DATE(created_at AT TIME ZONE $2 AT TIME ZONE $3),
```

Под капотом

top

iostat

pg_stat_activity

pg_stat_statements

За кадром

Checkpointing process

WAL writer process

Autovacuum workers

Background workers

04

**Клиентские
подключения**

Тот случай когда:

-- ААА!!! Ничего не работает, кругом 500-е

pgcenter: 2019-01-31 05:14:48, load average: 3.14, 6.72, 8.55
 %cpu: 5.0 us, 1.7 sy, 16.1 ni, 76.6 id, 0.1 wa, 0.0 hi, 0.5 si, 0.0 st
 MiB mem: 245854 total, 2283 free, 192521 used, 51050 buff/cached
 MiB swap: 65531 total, 62647 free, 2884 used, 0/0 dirty/writeback

state [ok]: /var/run/postgre:5432 postgres@postgres (ver: 10.4, up 108 days 22:12:01, recovery: f)
 activity: 89/200 conns, 0/0 prepared, 61 idle, 6 idle_xact, 22 active, 21 waiting, 0 others
 autovacuum: 0/10 workers/max, 0 manual, 0 wraparound, 00:00:00 vac_maxtime
 statements: 150 stmt/s, 0.370 stmt_avgtime, 00:10:47 xact_maxtime, 00:00:00 prep_maxtime

pid	cl_addr	cl_port	datname	username	appname	backend_type	wait_etype	wait_event	state	xact_age	query_age	change_age	query
3655	127.0.0.~	48571	farma_r~	farma_r~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:10:47	00:10:36	00:10:36	UPDATE "employer_mtd_reports" SET "fields" = '{"cli
3671	127.0.0.~	56588	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:29	00:07:25	00:07:25	select job0_.id as id1_25_0_, jobcounter1.job_refe
109275	127.0.0.~	46010	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:29	00:07:25	00:07:25	select setting0_.id as id1_32_0_, setting0_.allow_z
102458	127.0.0.~	45526	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	select jobcompani0_.matching_configuration_id as ma
58427	172.20.~	58410	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "id", "id", "name" FROM "categories" WHERE "
58320	172.20.~	58346	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "id", "id", "name", "url", "domain", "enable
45803	127.0.0.~	41844	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "job_stats_master".* FROM "job_stats_master"
109276	127.0.0.~	46012	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	UPDATE "jobs" SET "url" = 'https://www.collegerecru
103420	127.0.0.~	45636	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	UPDATE "employer_mtd_reports" SET "fields" = '{"cli
103418	127.0.0.~	45632	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	select jobcompani0_.matching_configuration_id as ma
103414	127.0.0.~	45630	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	select setting0_.id as id1_32_0_, setting0_.allow_z
103101	127.0.0.~	45588	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "job_stats_master".* FROM "job_stats_master"
100224	127.0.0.~	45338	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "job_group_exchange_weekly_budget_progresses
94402	127.0.0.~	45054	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "job_locations".* FROM "job_locations" WHERE
94388	127.0.0.~	45052	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "feed_update_histories".* FROM "feed_update_
76136	127.0.0.~	43948	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	UPDATE "jobs" SET "url" = 'https://www.collegerecru
72388	127.0.0.~	43708	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "job_stats_master".* FROM "job_stats_master"
67547	127.0.0.~	43362	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "exchanges".* FROM "exchanges" WHERE "exchan
113835	127.0.0.~	46326	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "jobs".* FROM "jobs" WHERE "jobs"."job_refer
57120	127.0.0.~	42542	farma_r~	farma_r~	sidekia~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "job group weekly budget progresses".* FROM

```
pgcenter: 2019-01-31 05:14:48, load average: 3.14, 6.72, 8.55
%cpu: 5.0 us, 1.7 sy, 16.1 ni, 76.6 id, 0.1 wa, 0.0 hi, 0.5 si, 0.0 st
MiB mem: 245854 total, 2283 free, 192521 used, 51050 buff/cached
MiB swap: 65531 total, 62647 free, 2884 used, 0/0 dirty/writeback
```

```
state [ok]: /var/run/postgre:5432 postgres@postgres (ver: 10.4, up 108 days 22:12:01, recovery: f)
activity: 89/200 conns, 0/0 prepared, 61 idle, 6 idle_xact, 22 active, 21 waiting, 0 others
autovacuum: 0/10 workers/max, 0 manual, 0 wraparound, 00:00:00 vac_maxtime
statements: 150 stmt/s, 0.370 stmt_avgtime, 00:10:47 xact_maxtime, 00:00:00 prep_maxtime
```

pid	cl_addr	cl_port	datname	username	appname	backend_type	wait_etype	wait_event	state	xact_age	query_age	change_age	query
3655	127.0.0.~	48571	farma_r~	farma_r~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:10:47	00:10:36	00:10:36	UPDATE "employer_mtd_reports" SET "fields" = '{"cli
3671	127.0.0.~	56588	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:29	00:07:25	00:07:25	select job0_.id as id1_25_0_, jobcounter1.job_refe
109275	127.0.0.~	46010	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:29	00:07:25	00:07:25	select setting0_.id as id1_32_0_, setting0_.allow_z
102458	127.0.0.~	45526	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	select jobcompani0_.matching_configuration_id as ma
58427	172.20.~	58410	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "id", "id", "name" FROM "categories" WHERE "
58320	172.20.~	58346	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "id", "id", "name", "url", "domain", "enable
45803	127.0.0.~	41844	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "job_stats_master".* FROM "job_stats_master"
109276	127.0.0.~	46012	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	UPDATE "jobs" SET "url" = 'https://www.collegerecru
103420	127.0.0.~	45636	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	UPDATE "employer_mtd_reports" SET "fields" = '{"cli
103418	127.0.0.~	45632	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	select jobcompani0_.matching_configuration_id as ma
103414	127.0.0.~	45630	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	select setting0_.id as id1_32_0_, setting0_.allow_z
103101	127.0.0.~	45588	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "job_stats_master".* FROM "job_stats_master"
100224	127.0.0.~	45338	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "job_group_exchange_weekly_budget_progresses
94402	127.0.0.~	45054	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "job_locations".* FROM "job_locations" WHERE
94388	127.0.0.~	45052	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "feed_update_histories".* FROM "feed_update_
76136	127.0.0.~	43948	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	UPDATE "jobs" SET "url" = 'https://www.collegerecru
72388	127.0.0.~	43708	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "job_stats_master".* FROM "job_stats_master"
67547	127.0.0.~	43362	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "exchanges".* FROM "exchanges" WHERE "exchan
113835	127.0.0.~	46326	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "jobs".* FROM "jobs" WHERE "jobs"."job_refer
57120	127.0.0.~	42542	farma_r~	farma_r~	sidekia~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "job group weekly budget progresses".* FROM

22 active

21 waiting

wait_event_type = 'Lock'

```
pgcenter: 2019-01-31 05:14:48, load average: 3.14, 6.72, 8.55
%cpu: 5.0 us, 1.7 sy, 16.1 ni, 76.6 id, 0.1 wa, 0.0 hi, 0.5 si, 0.0 st
MiB mem: 245854 total, 2283 free, 192521 used, 51050 buff/cached
MiB swap: 65531 total, 62647 free, 2884 used, 0/0 dirty/writeback
```

```
state [ok]: /var/run/postgre:5432 postgres@postgres (ver: 10.4, up 108 days 22:12:01, recovery: f)
activity: 89/200 conns, 0/0 prepared, 61 idle, 6 idle_xact, 22 active, 21 waiting, 0 others
autovacuum: 0/10 workers/max, 0 manual, 0 wraparound, 00:00:00 vac_maxtime
statements: 150 stmt/s, 0.370 stmt_avgtime, 00:10:47 xact_maxtime, 00:00:00 prep_maxtime
```

pid	cl_addr	cl_port	datname	username	appname	backend_type	wait_etype	wait_event	state	xact_age	query_age	change_age	query
3655	127.0.0~	48571	farma_r~	farma_r~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:10:47	00:10:36	00:10:36	UPDATE "employer_mtd_reports" SET "fields" = '{cli
3671	127.0.0~	56588	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:29	00:07:25	00:07:25	select job0_.id as id1_25_0_, jobcounter1.job_refe
109275	127.0.0~	46010	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:29	00:07:25	00:07:25	select setting0_.id as id1_32_0_, setting0_.allow_z
102458	127.0.0~	45526	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	select jobcompani0_.matching_configuration_id as ma
58427	172.20.~	58410	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "id", "id", "name" FROM "categories" WHERE "
58320	172.20.~	58346	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "id", "id", "name", "url", "domain", "enable
45803	127.0.0~	41844	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "job_stats_master".* FROM "job_stats_master"
109276	127.0.0~	46012	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	UPDATE "jobs" SET "url" = 'https://www.collegerecru
103420	127.0.0~	45636	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	UPDATE "employer_mtd_reports" SET "fields" = '{cli
103418	127.0.0~	45632	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	select jobcompani0_.matching_configuration_id as ma
103414	127.0.0~	45630	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	select setting0_.id as id1_32_0_, setting0_.allow_z
103101	127.0.0~	45588	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "job_stats_master".* FROM "job_stats_master"
100224	127.0.0~	45338	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "job_group_exchange_weekly_budget_progresses
94402	127.0.0~	45054	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "job_locations".* FROM "job_locations" WHERE
94388	127.0.0~	45052	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "feed_update_histories".* FROM "feed_update_
76136	127.0.0~	43948	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	UPDATE "jobs" SET "url" = 'https://www.collegerecru
72388	127.0.0~	43708	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "job_stats_master".* FROM "job_stats_master"
67547	127.0.0~	43362	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "exchanges".* FROM "exchanges" WHERE "exchan
113835	127.0.0~	46326	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "jobs".* FROM "jobs" WHERE "jobs"."job_refer
57120	127.0.0~	42542	farma_r~	farma_r~	sidekia~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "job group weekly budget progresses".* FROM

22 active

21 waiting

wait_etype, wait_event: Lock, transactionid


```
pgcenter: 2019-01-31 05:14:48, load average: 3.14, 6.72, 8.55
%cpu: 5.0 us, 1.7 sy, 16.1 ni, 76.6 id, 0.1 wa, 0.0 hi, 0.5 si, 0.0 st
MiB mem: 245854 total, 2283 free, 192521 used, 51050 buff/cached
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```
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activity: 89/200 conns, 0/0 prepared, 61 idle, 6 idle_xact, 22 active, 21 waiting, 0 others
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statements: 150 stmt/s, 0.370 stmt_avgtime, 00:10:47 xact_maxtime, 00:00:00 prep_maxtime
```

pid	cl_addr	cl_port	datname	username	appname	backend_type	wait_etype	wait_event	state	xact_age	query_age	change_age	query
3655	127.0.0.~	48571	farma_r~	farma_r~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:10:47	00:10:36	00:10:36	UPDATE "employer_mtd_reports" SET "fields" = '{cli
3671	127.0.0.~	56588	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:29	00:07:25	00:07:25	select job0_.id as id1_25_0_, jobcounter1.job_refe
109275	127.0.0.~	46010	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:29	00:07:25	00:07:25	select setting0_.id as id1_32_0_, setting0_.allow_z
102458	127.0.0.~	45526	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	select jobcompani0_.matching_configuration_id as ma
58427	172.20.~	58410	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "id", "id", "name" FROM "categories" WHERE "
58320	172.20.~	58346	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "id", "id", "name", "url", "domain", "enable
45803	127.0.0.~	41844	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "job_stats_master".* FROM "job_stats_master"
109276	127.0.0.~	46012	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	UPDATE "jobs" SET "url" = 'https://www.collegerecru
103420	127.0.0.~	45636	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	UPDATE "employer_mtd_reports" SET "fields" = '{cli
103418	127.0.0.~	45632	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	select jobcompani0_.matching_configuration_id as ma
103414	127.0.0.~	45630	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	select setting0_.id as id1_32_0_, setting0_.allow_z
103101	127.0.0.~	45588	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "job_stats_master".* FROM "job_stats_master"
100224	127.0.0.~	45338	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "job_group_exchange_weekly_budget_progresses
94402	127.0.0.~	45054	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "job_locations".* FROM "job_locations" WHERE
94388	127.0.0.~	45052	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "feed_update_histories".* FROM "feed_update_
76136	127.0.0.~	43948	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	UPDATE "jobs" SET "url" = 'https://www.collegerecru
72388	127.0.0.~	43708	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "job_stats_master".* FROM "job_stats_master"
67547	127.0.0.~	43362	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "exchanges".* FROM "exchanges" WHERE "exchan
113835	127.0.0.~	46326	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "jobs".* FROM "jobs" WHERE "jobs"."job_refer
57120	127.0.0.~	42542	farma_r~	farma_r~	sidekia~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "job group weekly budget progresses".* FROM

22 active

21 waiting

wait_etype, wait_event: Lock, transactionid

6 idle_xact

```

pgcenter: 2019-01-31 05:14:48, load average: 3.14, 6.72, 8.55
%cpu: 5.0 us, 1.7 sy, 16.1 ni, 76.6 id, 0.1 wa, 0.0 hi, 0.5 si, 0.0 st
MiB mem: 245854 total, 2283 free, 192521 used, 51050 buff/cached
MiB swap: 65531 total, 62647 free, 2884 used, 0/0 dirty/writeback

```

```

state [ok]: /var/run/postgre:5432 postgres@postgres (ver: 10.4, up 108 days 22:12:01, recovery: f)
activity: 89/200 conns, 0/0 prepared, 61 idle, 6 idle_xact, 22 active, 21 waiting, 0 others
autovacuum: 0/10 workers/max, 0 manual, 0 wraparound, 00:00:00 vac_maxtime
statements: 150 stmt/s, 0.370 stmt_avgtime, 00:10:47 xact_maxtime, 00:00:00 prep_maxtime

```

pid	cl_addr	cl_port	datname	username	appname	backend_type	wait_etype	wait_event	state	xact_age	query_age	change_age	query
3655	127.0.0.~	48571	farma_r~	farma_r~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:10:47	00:10:36	00:10:36	UPDATE "employer_mtd_reports" SET "fields" = '{"cli
3671	127.0.0.~	56588	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:29	00:07:25	00:07:25	select job0_.id as id1_25_0_, jobcounter1.job_refe
109275	127.0.0.~	46010	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:29	00:07:25	00:07:25	select setting0_.id as id1_32_0_, setting0_.allow_z
102458	127.0.0.~	45526	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	select jobcompani0_.matching_configuration_id as ma
58427	172.20.~	58410	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "id", "id", "name" FROM "categories" WHERE "
58320	172.20.~	58346	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "id", "id", "name", "url", "domain", "enable
45803	127.0.0.~	41844	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "job_stats_master".* FROM "job_stats_master"
109276	127.0.0.~	46012	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	UPDATE "jobs" SET "url" = 'https://www.collegerecru
103420	127.0.0.~	45636	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	UPDATE "employer_mtd_reports" SET "fields" = '{"cli
103418	127.0.0.~	45632	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	select jobcompani0_.matching_configuration_id as ma
103414	127.0.0.~	45630	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	select setting0_.id as id1_32_0_, setting0_.allow_z
103101	127.0.0.~	45588	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "job_stats_master".* FROM "job_stats_master"
100224	127.0.0.~	45338	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "job_group_exchange_weekly_budget_progresses
94402	127.0.0.~	45054	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "job_locations".* FROM "job_locations" WHERE
94388	127.0.0.~	45052	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "feed_update_histories".* FROM "feed_update_
76136	127.0.0.~	43948	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	UPDATE "jobs" SET "url" = 'https://www.collegerecru
72388	127.0.0.~	43708	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "job_stats_master".* FROM "job_stats_master"
67547	127.0.0.~	43362	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "exchanges".* FROM "exchanges" WHERE "exchan
113835	127.0.0.~	46326	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "jobs".* FROM "jobs" WHERE "jobs"."job_refer
57120	127.0.0.~	42542	farma_r~	farma_r~	sidekia~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "job group weekly budget progresses".* FROM

22 active

21 waiting

wait_etype, wait_event: Lock, transactionid

6 idle_xact

xact_age: 00:10:47

now() - xact_start

```
pgcenter: 2019-01-31 05:14:48, load average: 3.14, 6.72, 8.55
%cpu: 5.0 us, 1.7 sy, 16.1 ni, 76.6 id, 0.1 wa, 0.0 hi, 0.5 si, 0.0 st
MiB mem: 245854 total, 2283 free, 192521 used, 51050 buff/cached
MiB swap: 65531 total, 62647 free, 2884 used, 0/0 dirty/writeback
```

```
state [ok]: /var/run/postgre:5432 postgres@postgres (ver: 10.4, up 108 days 22:12:01, recovery: f)
activity: 89/200 conns, 0/0 prepared, 61 idle, 6 idle_xact, 22 active, 21 waiting, 0 others
autovacuum: 0/10 workers/max, 0 manual, 0 wraparound, 00:00:00 vac_maxtime
statements: 150 stmt/s, 0.370 stmt_avgtime, 00:10:47 xact_maxtime, 00:00:00 prep_maxtime
```

pid	cl_addr	cl_port	datname	username	appname	backend_type	wait_etype	wait_event	state	xact_age	query_age	change_age	query
3655	127.0.0.~	48571	farma_r~	farma_r~	Postgre~	client back~	Client	ClientRead	idle in transaction	00:10:47	00:10:36	00:10:36	UPDATE "employer_mtd_reports" SET "fields" = '{cli
3671	127.0.0.~	56588	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:29	00:07:25	00:07:25	select job0_.id as id1_25_0_, jobcounter1.job_refe
109275	127.0.0.~	46010	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:29	00:07:25	00:07:25	select setting0_.id as id1_32_0_, setting0_.allow_z
102458	127.0.0.~	45526	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	select jobcompani0_.matching_configuration_id as ma
58427	172.20.~	58410	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "id", "id", "name" FROM "categories" WHERE "
58320	172.20.~	58346	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "id", "id", "name", "url", "domain", "enable
45803	127.0.0.~	41844	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "job_stats_master".* FROM "job_stats_master"
109276	127.0.0.~	46012	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	UPDATE "jobs" SET "url" = 'https://www.collegerecru
103420	127.0.0.~	45636	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	UPDATE "employer_mtd_reports" SET "fields" = '{cli
103418	127.0.0.~	45632	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	select jobcompani0_.matching_configuration_id as ma
103414	127.0.0.~	45630	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	select setting0_.id as id1_32_0_, setting0_.allow_z
103101	127.0.0.~	45588	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "job_stats_master".* FROM "job_stats_master"
100224	127.0.0.~	45338	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "job_group_exchange_weekly_budget_progresses
94402	127.0.0.~	45054	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "job_locations".* FROM "job_locations" WHERE
94388	127.0.0.~	45052	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "feed_update_histories".* FROM "feed_update_
76136	127.0.0.~	43948	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	UPDATE "jobs" SET "url" = 'https://www.collegerecru
72388	127.0.0.~	43708	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "job_stats_master".* FROM "job_stats_master"
67547	127.0.0.~	43362	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "exchanges".* FROM "exchanges" WHERE "exchan
113835	127.0.0.~	46326	farma_r~	farma_r~	Postgre~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "jobs".* FROM "jobs" WHERE "jobs"."job_refer
57120	127.0.0.~	42542	farma_r~	farma_r~	sidekia~	client back~	Lock	transactionid	active	00:07:28	00:07:24	00:07:24	SELECT "job group weekly budget progresses".* FROM

22 active

21 waiting

wait_etype, wait_event: Lock, transactionid

6 idle_xact

xact_age: 00:10:47

wait_etype, wait_event: Client, Client Read

Под капотом

`pg_stat_activity`

`pg_stat_statements`

`pg_cancel_backend()`

`pg_terminate_backend()`

Впрочем бывает и по другому

Долгая транзакция на таблице с очередью

Впрочем бывает и по другому

Долгая транзакция на таблице с очередью

Кривой параллелизм со стороны приложения

Впрочем бывает и по другому

Долгая транзакция на таблице с очередью

Кривой параллелизм со стороны приложения

Миграция с тяжелым ALTER TABLE

Впрочем бывает и по другому

Долгая транзакция на таблице с очередью

Кривой параллелизм со стороны приложения

Миграция с тяжелым ALTER TABLE

И да! CREATE INDEX ~~CONCURRENTLY~~

05

Репликация

pgcenter: 2019-02-01 06:46:46, load average: 1.45, 0.86, 0.73
%cpu: 1.5 us, 1.9 sy, 0.0 ni, 94.5 id, 1.8 wa, 0.0 hi, 0.3 si, 0.0 st
MiB mem: 193348 total, 2538 free, 65489 used, 125321 buff/cached
MiB swap: 9535 total, 7807 free, 1728 used, 54/0 dirty/writeback

state [ok]: /var/run/postgre:5432 postgres@postgres (ver: 10.5, up 169 days 10:25:43, recovery: f)
activity:100/300 conns, 0/0 prepared, 99 idle, 0 idle_xact, 1 active, 0 waiting, 0 others
autovacuum: 0/10 workers/max, 0 manual, 0 wraparound, 00:00:00 vac_maxtime
statements: 215 stmt/s, 1.040 stmt_avgtime, 00:00:00 xact_maxtime, 00:00:00 prep_maxtime

pid	client	user	name	state	mode	wal	pending	write	flush	replay	total_lag	write_lag	flush_lag	replay_lag	xact_age	time_age
30220	10.0.0.22	replica	walreceiver	streaming	async	240	0	0	1	1504229	1504230	00:00:00	00:00:00	02:00:00		
26440	10.0.0.6	postgres	pg_basebackup	streaming	async	240	0	1081	4498			00:00:00	00:00:40	00:00:40		
26431	10.0.0.6	postgres	pg_basebackup	backup	async	240						00:00:00	00:00:00	00:00:00		
25691	10.0.0.23	replica	walreceiver	streaming	async	240	0	0	1	0	1	00:00:00	00:00:00	00:00:00	430	00:00:03
8480	10.0.0.6	probackup	pg_receivewal	streaming	async	240	0	954	4625			00:00:00	00:00:15	67:48:35		

pgcenter: 2019-02-01 06:46:46, load average: 1.45, 0.86, 0.73
%cpu: 1.5 us, 1.9 sy, 0.0 ni, 94.5 id, 1.8 wa, 0.0 hi, 0.3 si, 0.0 st
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state [ok]: /var/run/postgre:5432 postgres@postgres (ver: 10.5, up 169 days 10:25:43, recovery: f)
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statements: 215 stmt/s, 1.040 stmt_avgtime, 00:00:00 xact_maxtime, 00:00:00 prep_maxtime

pid	client	user	name	state	mode	wal	pending	write	flush	replay	total_lag	write_lag	flush_lag	replay_lag	xact_age	time_age
30220	10.0.0.22	replica	walreceiver	streaming	async	240	0	0	1	1504229	1504230	00:00:00	00:00:00	02:00:00		
26440	10.0.0.6	postgres	pg_basebackup	streaming	async	240	0	1081	4498			00:00:00	00:00:40	00:00:40		
26431	10.0.0.6	postgres	pg_basebackup	backup	async	240						00:00:00	00:00:00	00:00:00		
25691	10.0.0.23	replica	walreceiver	streaming	async	240	0	0	1	0	1	00:00:00	00:00:00	00:00:00	430	00:00:03
8480	10.0.0.6	probackup	pg_receivewal	streaming	async	240	0	954	4625			00:00:00	00:00:15	67:48:35		

connected clients: 5

```
pgcenter: 2019-02-01 06:46:46, load average: 1.45, 0.86, 0.73
%cpu: 1.5 us, 1.9 sy, 0.0 ni, 94.5 id, 1.8 wa, 0.0 hi, 0.3 si, 0.0 st
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MiB swap: 9535 total, 7807 free, 1728 used, 54/0 dirty/writeback
```

```
state [ok]: /var/run/postgre:5432 postgres@postgres (ver: 10.5, up 169 days 10:25:43, recovery: f)
activity:100/300 conns, 0/0 prepared, 99 idle, 0 idle_xact, 1 active, 0 waiting, 0 others
autovacuum: 0/10 workers/max, 0 manual, 0 wraparound, 00:00:00 vac_maxtime
statements: 215 stmt/s, 1.040 stmt_avgtime, 00:00:00 xact_maxtime, 00:00:00 prep_maxtime
```

pid	client	user	name	state	mode	wal	pending	write	flush	replay	total_lag	write_lag	flush_lag	replay_lag	xact_age	time_age
30220	10.0.0.22	replica	walreceiver	streaming	async	240	0	0	1	1504229	1504230	00:00:00	00:00:00	02:00:00		
26440	10.0.0.6	postgres	pg_basebackup	streaming	async	240	0	1081	4498			00:00:00	00:00:40	00:00:40		
26431	10.0.0.6	postgres	pg_basebackup	backup	async	240						00:00:00	00:00:00	00:00:00		
25691	10.0.0.23	replica	walreceiver	streaming	async	240	0	0	1	0	1	00:00:00	00:00:00	00:00:00	430	00:00:03
8480	10.0.0.6	probackup	pg_receivewal	streaming	async	240	0	954	4625			00:00:00	00:00:15	67:48:35		

connected clients: 5

walreceiver: 2

```
pgcenter: 2019-02-01 06:46:46, load average: 1.45, 0.86, 0.73
%cpu: 1.5 us, 1.9 sy, 0.0 ni, 94.5 id, 1.8 wa, 0.0 hi, 0.3 si, 0.0 st
MiB mem: 193348 total, 2538 free, 65489 used, 125321 buff/cached
MiB swap: 9535 total, 7807 free, 1728 used, 54/0 dirty/writeback
```

```
state [ok]: /var/run/postgre:5432 postgres@postgres (ver: 10.5, up 169 days 10:25:43, recovery: f)
activity:100/300 conns, 0/0 prepared, 99 idle, 0 idle_xact, 1 active, 0 waiting, 0 others
autovacuum: 0/10 workers/max, 0 manual, 0 wraparound, 00:00:00 vac_maxtime
statements: 215 stmt/s, 1.040 stmt_avgtime, 00:00:00 xact_maxtime, 00:00:00 prep_maxtime
```

pid	client	user	name	state	mode	wal	pending	write	flush	replay	total_lag	write_lag	flush_lag	replay_lag	xact_age	time_age
30220	10.0.0.22	replica	walreceiver	streaming	async	240	0	0	1	1504229	1504230	00:00:00	00:00:00	02:00:00		
26440	10.0.0.6	postgres	pg_basebackup	streaming	async	240	0	1081	4498			00:00:00	00:00:40	00:00:40		
26431	10.0.0.6	postgres	pg_basebackup	backup	async	240						00:00:00	00:00:00	00:00:00		
25691	10.0.0.23	replica	walreceiver	streaming	async	240	0	0	1	0	1	00:00:00	00:00:00	00:00:00	430	00:00:03
8480	10.0.0.6	probackup	pg_receivewal	streaming	async	240	0	954	4625			00:00:00	00:00:15	67:48:35		

connected clients: 5

walreceiver: 2

total_lag: ~1.5GB

replay_lag: 02:00:00

`pg_wal_lsn_diff(pg_current_wal_lsn(), replay_lsn)`

```
pgcenter: 2019-02-01 06:46:46, load average: 1.45, 0.86, 0.73
%cpu: 1.5 us, 1.9 sy, 0.0 ni, 94.5 id, 1.8 wa, 0.0 hi, 0.3 si, 0.0 st
MiB mem: 193348 total, 2538 free, 65489 used, 125321 buff/cached
MiB swap: 9535 total, 7807 free, 1728 used, 54/0 dirty/writeback
```

```
state [ok]: /var/run/postgre:5432 postgres@postgres (ver: 10.5, up 169 days 10:25:43, recovery: f)
activity:100/300 conns, 0/0 prepared, 99 idle, 0 idle_xact, 1 active, 0 waiting, 0 others
autovacuum: 0/10 workers/max, 0 manual, 0 wraparound, 00:00:00 vac_maxtime
statements: 215 stmt/s, 1.040 stmt_avgtime, 00:00:00 xact_maxtime, 00:00:00 prep_maxtime
```

pid	client	user	name	state	mode	wal	pending	write	flush	replay	total_lag	write_lag	flush_lag	replay_lag	xact_age	time_age
30220	10.0.0.22	replica	walreceiver	streaming	async	240	0	0	1	1504229	1504230	00:00:00	00:00:00	02:00:00		
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connected clients: 5

walreceiver: 2

total_lag: ~1.5GB

replay_lag: 02:00:00

pg_basebackup: 2

pg_receivewal: 1

```
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Bytes:

pending, write, flush, replay, total_lag

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connected clients: 5

walreceiver: 2

total_lag: ~1.5GB

replay_lag: 02:00:00

pg_basebackup: 2

pg_receivewal: 1

Bytes:

pending, write, flush, replay, total_lag

Seconds:

write_lag, flush_lag, replay_lag


```
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connected clients: 5
walreceiver: 2
total_lag: ~1.5GB
replay_lag: 02:00:00
pg_basebackup: 2
pg_receivewal: 1

Bytes:
pending, write, flush, replay, total_lag
Seconds:
write_lag, flush_lag, replay_lag
Transactions:
xact_age, time_age

Под капотом

`pg_stat_replication`

`pg_wal_lsn_diff()`

`pg_current_wal_lsn()`

`pg_last_committed_xact()`

06

**Осталось
за кадром**

pgcenter top

pg_stat_all_tables, pg_statio_all_tables

pgcenter top

pg_stat_all_tables, pg_statio_all_tables

pg_stat_all_indexes, pg_statio_all_tables

pgcenter top

pg_stat_all_tables, pg_statio_all_tables

pg_stat_all_indexes, pg_statio_all_tables

pg_stat_user_functions

pgcenter top

pg_stat_all_tables, pg_statio_all_tables

pg_stat_all_indexes, pg_statio_all_tables

pg_stat_user_functions

pg_stat_progress_vacuum

pgcenter top

pg_stat_all_tables, pg_statio_all_tables

pg_stat_all_indexes, pg_statio_all_tables

pg_stat_user_functions

pg_stat_progress_vacuum

Вспомогательные функции

pgcenter record, report

Сохранение снимков статистики в файлы

Создание отчетов на основе файлов

pgcenter record, report

«poor man monitoring»

ad-hoc сбор статистики

pgcenter profile

Профайлинг wait_event'ов

Исследование долгих запросов

pgcenter profile

```
-----  
% time      seconds wait_event      query: select * from pgbench_accounts order by abalance;  
-----  
44.94      8.153308 Running  
34.79      6.310833 IO.BufFileRead  
14.01      2.541087 IPC.MessageQueueReceive  
3.51       0.637213 IO.BufFileWrite  
2.33       0.422113 IO.DataFileRead  
0.25       0.045842 IPC.ParallelFinish  
0.13       0.023498 Client.ClientWrite  
-----  
99.96      18.133894
```

pgcenter profile

```
-----  
% time      seconds wait_event  
-----  
81.77      16.697358 IO.DataFileRead  
12.24      2.500114 Running  
2.36       0.480942 IO.DataFileImmediateSync  
1.62       0.330561 LWLock.WALWriteLock  
0.78       0.158484 IO.WALWrite  
0.73       0.148711 IO.DataFileExtend  
0.34       0.068863 IO.DataFileWrite  
0.11       0.022844 IO.BufFileWrite  
0.06       0.011417 IO.BufFileRead  
-----  
100.00     20.419294
```

query: vacuum full pgbench_accounts ;



Спасибо за внимание!

