

Git 10.10号500问题

背景:

想要验证执行 gitlab-backup 做备份无法备份repo的问题, 由于db比较大, 所以想在下班前执行备份命令, 今天能得到原因, 明天拉着厂家进行问题排查;

操作时间线:

18:50 执行 /opt/gitlab/bin/gitlab-backup create SKIP=artifacts,buils,registry CRON=1 >> /var/log/gitlab/cron-backup-\$(date +%Y%m%d).log 2>&1 原 2k backup命令, 同时10.1的时候打开备份, 期间无异常;

18:52 业务大群反馈500, 进行排查, 发现sidekiq 报db的错误;

```
{ "severity": "WARN", "time": "2022-10-10T11:15:22.152Z", "class": "MigrateExternalDiffsWorker", "args": [ "6344865" ], "
retry": 3, "queue": "migrate_external_diffs", "version": 0, "jid": "94f5f9b8c7b2cd1567dcd29e", "created_at": "2022-10-
10T11:15:20.747Z", "enqueued_at": "2022-10-10T11:15:21.348Z", "meta.caller_id": "
ScheduleMigrateExternalDiffsWorker", "meta.feature_category": "code_review", "meta.client_id": "ip/", "
correlation_id": "7e95f68797231d2a0d1d9eb53d741a4b", "pid": 172583, "message": "MigrateExternalDiffsWorker JID-
94f5f9b8c7b2cd1567dcd29e: fail: 0.16666 sec", "job_status": "fail", "scheduling_latency_s": 0.569995, "
job_size_bytes": 374, "cpu_s": 0.008444, "mem_objects": 2117, "mem_bytes": 114512, "mem_mallocs": 517, "redis_calls": 1, "
redis_duration_s": 0.001613, "redis_read_bytes": 1, "redis_write_bytes": 128, "redis_queues_calls": 1, "
redis_queues_duration_s": 0.001613, "redis_queues_read_bytes": 1, "redis_queues_write_bytes": 128, "db_count": 5, "
db_write_count": 0, "db_cached_count": 0, "duration_s": 0.16666, "completed_at": "2022-10-10T11:15:22.085Z", "
error_message": "PG::UndefinedTable: ERROR: relation \"merge_request_diff_files\" does not exist\\nLINE 1: ...
Worker*/ SELECT \"merge_request_diff_files\".* FROM \"merge_req...
\\n
StatementInvalid\", \"error_backtrace\": [ \"lib/gitlab/diff/file_collection_sorter.rb:17:in `sort'\", \"lib/gitlab/diff
/file_collection_sorter.rb:17:in `sort'\", \"app/models/merge_request_diff.rb:775:in `sort_diffs'\", \"app/models
/merge_request_diff.rb:604:in `build_merge_request_diff_files'\", \"app/models/merge_request_diff.rb:496:in
`migrate_files_to_external_storage!'\", \"app/services/merge_requests/migrate_external_diffs_service.rb:23:in
`execute'\", \"app/workers/migrate_external_diffs_worker.rb:14:in `perform'\", \"lib/gitlab/sidekiq_middleware
/duplicate_jobs/strategies/until_executing.rb:16:in `perform'\", \"lib/gitlab/sidekiq_middleware/duplicate_jobs
/duplicate_job.rb:40:in `perform'\", \"lib/gitlab/sidekiq_middleware/duplicate_jobs/server.rb:8:in `call'\", \"lib
/gitlab/sidekiq_middleware/worker_context.rb:9:in `wrap_in_optional_context'\", \"lib/gitlab/sidekiq_middleware
/worker_context/server.rb:17:in `block in call'\", \"lib/gitlab/application_context.rb:70:in `block in use'\", \"lib
/gitlab/application_context.rb:70:in `use'\", \"lib/gitlab/application_context.rb:27:in `with_context'\", \"lib/gitlab
/sidekiq_middleware/worker_context/server.rb:15:in `call'\", \"lib/gitlab/sidekiq_status/server_middleware.rb:7:in
`call'\", \"lib/gitlab/sidekiq_versioning/middleware.rb:9:in `call'\", \"lib/gitlab/sidekiq_middleware/admin_mode
/server.rb:14:in `call'\", \"lib/gitlab/sidekiq_middleware/instrumentation_logger.rb:27:in `call'\", \"lib/gitlab
/sidekiq_middleware/batch_loader.rb:7:in `call'\", \"lib/gitlab/sidekiq_middleware/extra_done_log_metadata.rb:7:in
`call'\", \"lib/gitlab/sidekiq_middleware/request_store_middleware.rb:10:in `block in call'\", \"lib/gitlab
/with_request_store.rb:17:in `enabling_request_store'\", \"lib/gitlab/with_request_store.rb:10:in
`with_request_store'\", \"lib/gitlab/sidekiq_middleware/request_store_middleware.rb:9:in `call'\", \"lib/gitlab
/sidekiq_middleware/server_metrics.rb:25:in `block in call'\", \"lib/gitlab/sidekiq_middleware/server_metrics.rb:
48:in `block in instrument'\", \"lib/gitlab/metrics/background_transaction.rb:30:in `run'\", \"lib/gitlab
/sidekiq_middleware/server_metrics.rb:48:in `instrument'\", \"ee/lib/ee/gitlab/sidekiq_middleware/server_metrics.
rb:17:in `instrument'\", \"lib/gitlab/sidekiq_middleware/server_metrics.rb:24:in `call'\", \"lib/gitlab
/sidekiq_middleware/monitor.rb:8:in `block in call'\", \"lib/gitlab/sidekiq_daemon/monitor.rb:49:in `within_job'\", \"
lib/gitlab/sidekiq_middleware/monitor.rb:7:in `call'\", \"lib/gitlab/sidekiq_logging/structured_logger.rb:19:in
`call'\" ], \"db_duration_s\": 0.094752 }
```

18:53 关闭后台备份任务;

18:57 联系厂商 & 关闭启动的子进程 pg_dump;

19:10 恢复正常, 同时修复了备份命令;

原因:

触发了pgbouncer的bug, 在备份的时候需要绕过pgbouncer https://docs.gitlab.com/ee/raketasks/backup_restore.html#back-up-and-restore-for-installations-using-pgbouncer 同时18:50的流量远高于23:00的流量, 所以触发了本次故障;

改进措施：

1. 修改备份命令，绕过PG Bouncer；
2. 针对git的相关操作，尽量在晚上10点以后执行，缩小影响面；
3. 针对git的操作，需要与厂家反复确认是否可以执行，避免出现问題；