Redmine - Defect #33863

Highly Available Multi-Node Redmine PostgreSQL Cluster

2020-08-17 17:20 - john karippery

		1	
Status:	Closed	Start date:	
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:			
Resolution:	Invalid	Affected version:	
Description			
Hello all I need a help,			
I have some issue while try to synchronize redmine database on 3 servers. i installed redmine (pgsql) in 3 servers. and i create virtual IP to access redmine using pacemaker. And I Set-Up Master-Slave Replication for PostgreSQL 9.6. synchronize is work fine until when I stop server1 (master). server2 redmine is showing authentication error. server2 and 3 only have read only access. so far I understand redmine only allow server1 to access permission. why redmine can't give access to server2 or server3?			
servers. for synchronize database I follow the documentation. every thing is work fine until when I stop active server. server2 redmine is showing authentication error.			
Redmine error when I try to login form client after connect servers.			
@ Completed 500 Internal Server Error in 11ms (ActiveRecord: 3.5ms)			
ActiveRecord::StatementInvalid (PG::ReadOnlySqlTransaction: ERROR: cannot execute UPDATE in a read-only transaction : UPDATE "users" SET "last_login_on" = '2020-08-17 13:05:11.001886' WHERE "users"."type" IN ('User', 'AnonymousUser') AND "users"."id" = \$1): app/models/user.rb:238:in `try_to_login' app/controllers/account_controller.rb:204:in `password_authentication' app/controllers/account_controller.rb:199:in `authenticate_user' app/controllers/account_controller.rb:40:in `login' lib/redmine/sudo_mode.rb:63:in `sudo_mode' @			
so far I unterstand redmine only allow server1 to access permission. why redmine can't give access to server2 or server3			
Below i give more information about my step so far.			
pcs config			
<pre>@pcs config Cluster Name: mycluster Corosync Nodes: server1 server2 server3 Pacemaker Nodes: server1 server2 server3</pre>			
Resources: Resource: MasterVip (class=ocf provider=heartbeat type=IPaddr2) Attributes: ip=101.226.189.208 nic=lo cidr_netmask=32 iflabel=pgrepvip Meta Attrs: target-role=Started Operations: start interval=0s timeout=20s (MasterVip-start-interval-0s) stop interval=0s timeout=20s (MasterVip-stop-interval-0s) monitor interval=90s (MasterVip-monitor-interval-90s) Resource: Apache (class=ocf provider=heartbeat type=apache) Attributes: configfile=/etc/apache2/apache2.conf statusurl=http://localhost/server-status Operations: start interval=0s timeout=40s (Apache-start-interval-0s) stop interval=0s timeout=60s (Apache-stop-interval-0s) monitor interval=1min (Apache-monitor-interval-1min)			

Stonith Devices: Fencing Levels: Location Constraints: Resource: Apache Enabled on: server1 (score:INFINITY) (role: Started) (id:cli-prefer-Apache) Ordering Constraints: Colocation Constraints: Apache with MasterVip (score:INFINITY) (id:colocation-Apache-MasterVip-INFINITY) Ticket Constraints: Alerts: No alerts defined Resources Defaults: migration-threshold: 5 resource-stickiness: 10 Operations Defaults: No defaults set Cluster Properties: cluster-infrastructure: corosync cluster-name: mycluster dc-version: 1.1.16-94ff4df have-watchdog: false no-quorum-policy: ignore stonith-enabled: false Quorum: Options:@ master postgresql.conf # Add settings for extensions here listen addresses = '* wal level = hot standby synchronous_commit = local archive_mode = on archive_command = 'cp %p /var/lib/postgresql/9.6/main/archive/%f' max_wal_senders = 10 wal_keep_segments = 30 synchronous_standby_names = 'server2' synchronous_standby_names = 'server3' hot_standby = on master pg_hba.conf @ # Localhost host replication postgres 127.0.0.1/32 md5 1. PostgreSQL Master IP address host replication postgres 101.226.189.205/32 md5 1. PostgreSQL SLave IP address host replication postgres 101.226.189.206/32 md5 ho 101.226.189.207/32 md5@ st replication postgres copy config to client from Master pg_basebackup -h server1 -U postgres -D /var/lib/postgresql/9.6/main -X stream -P **Database connection status** postgres@oreo:/etc/postgresql/9.6/main\$ psql -x -c "select * from pg_stat_replication;"

-[RECORD 1]----+------

pid | 18174 usesysid | 10 usename postgres application name | server3 client addr | 101.226.189.207 client hostname | client port | 35236 backend_start | 2020-08-17 15:56:40.687282+02 backend xmin - 1 | streaming state sent location | 0/7005430 write_location | 0/7005430 flush location | 0/7005430 replay_location | 0/7005430 sync_priority |1 sync state | sync -[RECORD 2]----+------pid | 18175 usesysid | 10 usename | postgres application_name | server2 client addr | 101.226.189.206 client_hostname | client port | 45862 backend_start | 2020-08-17 15:56:40.717087+02 backend xmin state | streaming sent_location | 0/7005430 write_location | 0/7005430 flush_location | 0/7005430 replay_location | 0/7005430 sync_priority | 0 sync_state | async

if anyone have experiance this problem please help me.

History

#1 - 2020-08-19 11:18 - Go MAEDA

- Status changed from New to Closed

- Resolution set to Invalid

I am closing this issue because it seems that the error is due to your configuration, not a problem of Redmine itself.

I recommend you to ask in Forums.

#2 - 2020-08-19 13:47 - Pavel Rosický

according to your description, you're using a Single Master Replication. So once your master's node is gone, you can't write/update to the database and unfortunately, redmine won't work on a read-only database. This would require some non-trivial work to make it possible.

Multi-Master Replication might be a solution, but it seems to be more complicated. I don't have experience with the exact settings on postgres, sry. https://www.percona.com/blog/2020/06/09/multi-master-replication-solutions-for-postgresql/