Redmine - Defect #33863

Highly Available Multi-Node Redmine PostgreSQL Cluster

2020-08-17 17:20 - john karippery

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?

Currently i have 3 server one master and 2 client. I installed redmine 3.3.1.stable with postgresql 9.6. and installed pacemaker in 3 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.

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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'

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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

@pcs config

Cluster Name: mycluster

Corosync Nodes:

server1 server2 server3 Pacemaker Nodes:

server1 server2 server3

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)

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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

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st replication postgres 101.226.189.207/32 md5@

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

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```
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
           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/

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