

hack4glarus-2023-summer - Task #11846

PostgreSQL data/conns handling on IPv6-only

07/07/2023 03:37 AM - Philipp (double-p) Buehler

Status:	Closed	Start date:	07/07/2023
Priority:	Normal	Due date:	
Assignee:	Philipp (double-p) Buehler	% Done:	0%
Category:		Estimated time:	42.00 hours
Target version:			
PM Check date:			
Description			
Demonstrate a multi-node setup with			
- Streaming replication			
- WAL replication (repmgr + barman)			
- remote backup (barman)			
- VIP failover (keepalived ip6.sh v6-magic)			
- PGpoolII			
- pgbouncer			
... and restore things (no v6 specials expected, hah).			

History

#1 - 07/07/2023 02:54 PM - Philipp (double-p) Buehler

key for provisioning `ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAINfdGn4eneqqp0AOXZqkQJzeLLy//FiGqYmWimuqIH6h pbuehler@adm042.local`

#2 - 07/07/2023 02:55 PM - Philipp (double-p) Buehler

need; 4 VMs. each:
1 vCPU, 4 GB RAM, 10 GB Disk. All v6-only in one prefix preferably?

#3 - 07/07/2023 02:59 PM - Nico Schottelius

```
[16:57] nb3:~% for v in 2a0a:e5c0:2:12:0:f0ff:fea9:c3d9 2a0a:e5c0:2:12:0:f0ff:fea9:c3e4 2a0a:e5c0:2:12:0:f0ff:fea9:c3ea 2a0a:e5c0:2:12:0:f0ff:fea9:c3ee; do ssh root@$v "echo ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAINfdGn4eneqqp0AOXZqkQJzeLLy//FiGqYmWimuqIH6h pbuehler@adm042.local >> .ssh/authorized_keys" ; done
```

```
Warning: Permanently added '2a0a:e5c0:2:12:0:f0ff:fea9:c3d9' (ED25519) to the list of known hosts.  
Warning: Permanently added '2a0a:e5c0:2:12:0:f0ff:fea9:c3e4' (ED25519) to the list of known hosts.  
Warning: Permanently added '2a0a:e5c0:2:12:0:f0ff:fea9:c3ea' (ED25519) to the list of known hosts.  
Warning: Permanently added '2a0a:e5c0:2:12:0:f0ff:fea9:c3ee' (ED25519) to the list of known hosts.  
[16:59] nb3:~%
```

#4 - 07/07/2023 03:05 PM - Philipp (double-p) Buehler

Debian 11/bullenaug

#5 - 07/07/2023 04:14 PM - Philipp (double-p) Buehler

Nico Schottelius wrote in [#note-3](#):

[...]

i think apt upgrade killed these three

```
Warning: Permanently added '2a0a:e5c0:2:12:0:f0ff:fea9:c3e4' (ED25519) to the list of known hosts.  
Warning: Permanently added '2a0a:e5c0:2:12:0:f0ff:fea9:c3ea' (ED25519) to the list of known hosts.  
Warning: Permanently added '2a0a:e5c0:2:12:0:f0ff:fea9:c3ee' (ED25519) to the list of known hosts.  
since I tried to update grub only on vda1. could you respawn these - nothing done on them besides 'apt upgrade'.
```

#6 - 07/07/2023 07:27 PM - Nico Schottelius

```
for v in 2a0a:e5c0:2:12:0:f0ff:fea9:c3e4 2a0a:e5c0:2:12:0:f0ff:fea9:c3ea 2a0a:e5c0:2:12:0:f0ff:fea9:c3ee ; do ssh root@$v "echo ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAINfdGn4eneqqp0AOXZqkQJzeLLy//FiGqYmWimuqIH6h pbuehler@adm042.local >> .ssh/authorized_keys" ; done
```

#7 - 07/08/2023 06:23 AM - Philipp (double-p) Buehler

code/pres in ze works

<https://github.com/double-p/pgSQLv6-testing>

#8 - 07/08/2023 10:12 AM - Philipp (double-p) Buehler

sidenote: pgLoader does not support IPv6 in the connection strings (pgpass). so data has to be copied via scp/rsync/.. and then loaded locally (unix socket)

#9 - 07/08/2023 06:09 PM - Philipp (double-p) Buehler

postgres@pg1:~\$ repmgr cluster show

ID	Name	Role	Status	Upstream	Location	Priority	Timeline	Connection string
1	pg1	primary	running		default	100	1	host=pg1 user=repmgr dbname=repmgr port=5432
2	pg2	standby	running	pg1	default	100	1	host=pg2 user=repmgr dbname=repmgr port=5432
3	pg3	standby	running	pg1	default	100	1	host=pg3 user=repmgr dbname=repmgr port=5432

#10 - 07/09/2023 08:11 AM - Philipp (double-p) Buehler

postgres@pg2:~\$ repmgr standby switchover --siblings-follow

NOTICE: executing switchover on node "pg2" (ID: 2)
NOTICE: attempting to pause repmgrd on 3 nodes
NOTICE: local node "pg2" (ID: 2) will be promoted to primary; current primary "pg1" (ID: 1) will be demoted to standby
NOTICE: stopping current primary node "pg1" (ID: 1)
NOTICE: issuing CHECKPOINT on node "pg1" (ID: 1)
DETAIL: executing server command "sudo systemctl stop postgresql"
INFO: checking for primary shutdown; 1 of 60 attempts ("shutdown_check_timeout")
INFO: checking for primary shutdown; 2 of 60 attempts ("shutdown_check_timeout")
NOTICE: current primary has been cleanly shut down at location 0/7071970
NOTICE: promoting standby to primary
DETAIL: promoting server "pg2" (ID: 2) using pg_promote()
NOTICE: waiting up to 60 seconds (parameter "promote_check_timeout") for promotion to complete
NOTICE: STANDBY PROMOTE successful
DETAIL: server "pg2" (ID: 2) was successfully promoted to primary
WARNING: node "pg1" attached in state "startup"
INFO: waiting for node "pg1" (ID: 1) to connect to new primary; 1 of max 60 attempts (parameter "node_rejoin_timeout")
DETAIL: node "pg2" (ID: 1) is currently attached to its upstream node in state "startup"
WARNING: node "pg1" attached in state "startup"
NOTICE: node "pg2" (ID: 2) promoted to primary, node "pg1" (ID: 1) demoted to standby
NOTICE: executing STANDBY FOLLOW on 1 of 1 siblings
INFO: STANDBY FOLLOW successfully executed on all reachable sibling nodes
NOTICE: switchover was successful
DETAIL: node "pg2" is now primary and node "pg1" is attached as standby
NOTICE: STANDBY SWITCHOVER has completed successfully

#11 - 01/02/2024 12:36 PM - Nico Schottelius

- Status changed from New to Closed