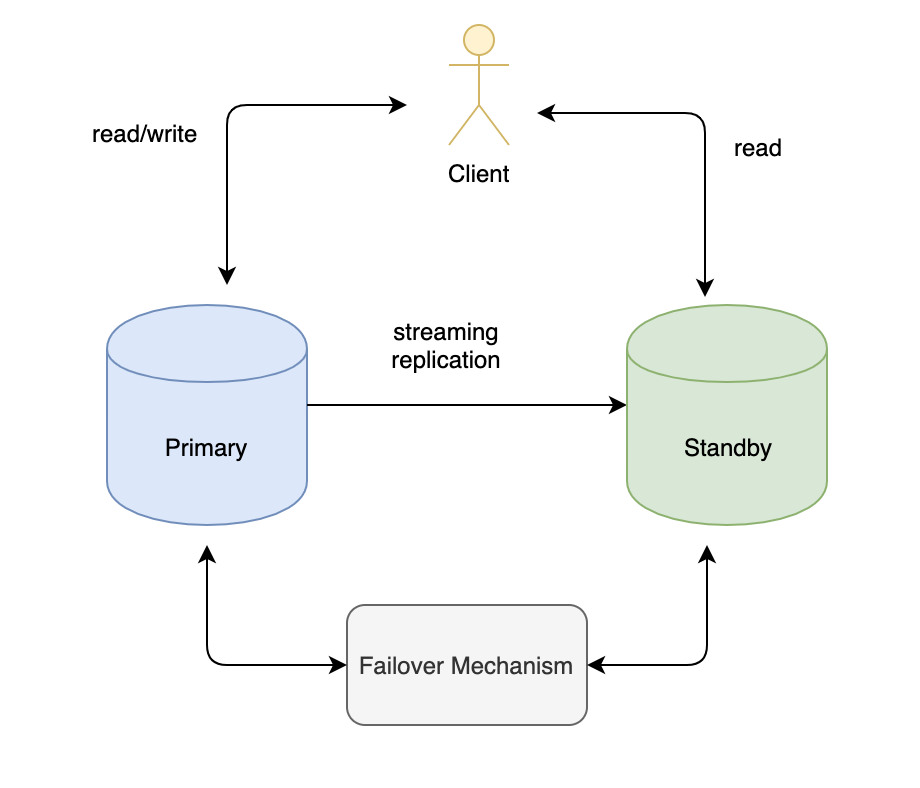
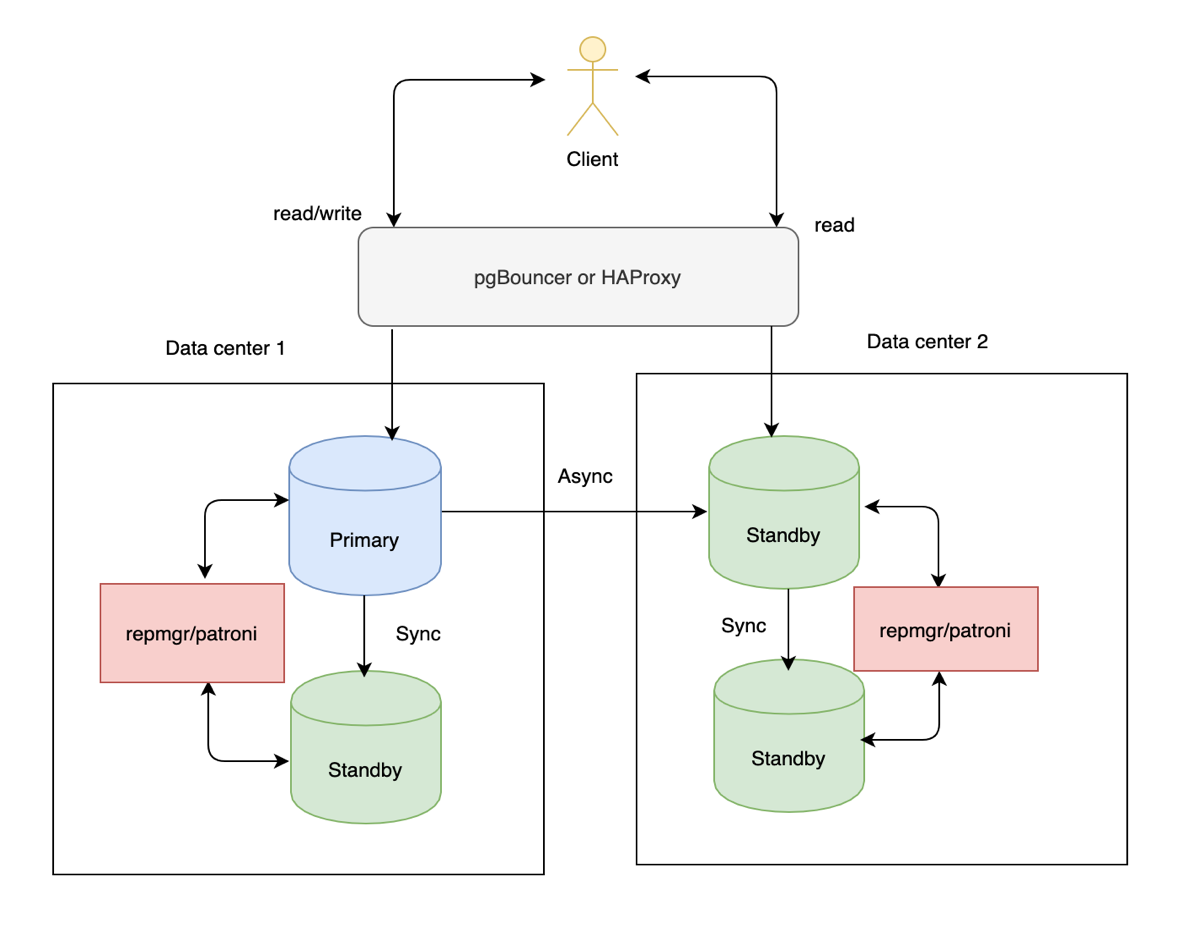
|  |  |  |  |
| --- | --- | --- | --- |
| Availability | Downtime per | | |
| Year | Month | Week |
| 90% ('One Nine') | 36.5 days | 73 hours | 16.8 hours |
| 99% ('Two Nines') | 87.7 hours | 7.3 hours | 1.68 hours |
| 99.9% ('Three Nines') | 8.77 hours | 43.8 minutes | 10.1 minutes |
| 99.99% ('Four Nines') | 52.56 minutes | 4.38minutes | 1.01 minutes |
| 99.999% ('Five Nines') | 5.26 minutes | 26.3 seconds | 6.05 seconds |
| 99.9999% ('Six Nines') | 31.5 seconds | 2.63 seconds | 0.605 seconds |





##########

Primary server – 192.168.0.1

Standby server – 192.168.0.2

psql -c 'CREATE USER REPLICATION rep\_gmr';  
psql -c 'CREATE DATABASE rep\_mgr OWNER rep\_mgr';

cluster=cls

node=1

node\_name=node1

conninfo= 'host=192.168.0.1 user=repmgr dbname=repmgr'

pg\_bindir='/usr/pgsql-9.5/bin'

loglevel=DEBUG

reconnect\_attempts=1

reconnect\_interval=1

logfile='/var/lib/pgsql/repmgr.log'

use\_replication\_slots=6

service\_start\_command = 'sudo /bin/systemctl start postgresql-9.5'

service\_stop\_command = 'sudo /bin/systemctl stop postgresql-9.5'

service\_restart\_command = 'sudo /bin/systemctl restart postgresql-

9.5'

service\_reload\_command = '/usr/pgsql-9.5/bin/pg\_ctl -D

/var/lib/pgsql/9.5/data reload'

service\_promote\_command = '/usr/pgsql-9.5/bin/pg\_ctl -D

/var/lib/pgsql/9.5/data promote'

priority=100

failover='automatic'

promote\_command='/var/lib/pgsql/standby\_promote.sh'

follow\_command='/usr/pgsql-9.5/bin/repmgr standby follow -f

/etc/repmgr/9.5/repmgr.conf -W'

cluster=cls

node=2

node\_name=node2

conninfo= 'host=192.168.0.2 user=repmgr dbname=repmgr'

pg\_bindir='/usr/pgsql-9.5/bin'

loglevel=DEBUG

logfile='/var/lib/pgsql/repmgr.log'

use\_replication\_slots=6

service\_start\_command = 'sudo /bin/systemctl start postgresql-9.5'

service\_stop\_command = 'sudo /bin/systemctl stop postgresql-9.5'

service\_restart\_command = 'sudo /bin/systemctl restart postgresql-

9.5'

service\_reload\_command = '/usr/pgsql-9.5/bin/pg\_ctl -D

/var/lib/pgsql/9.5/data reload'

service\_promote\_command = '/usr/pgsql-9.5/bin/pg\_ctl -D

/var/lib/pgsql/9.5/data promote'

priority=100

failover='automatic'

master\_response\_timeout=10

reconnect\_attempts=1

reconnect\_interval=1

promote\_command='repmgr standby promote -f /etc/repmgr.conf --log-to-file'

follow\_command='/usr/pgsql-9.5/bin/repmgr standby follow -f

/etc/repmgr/9.5/repmgr.conf -W'

host rep\_mgr rep\_mgr 192.168.0.2/32 trust

host replication rep\_mgr 192.168.0.2/32 trust

host rep\_mgr rep\_mgr 192.168.0.1/32 trust

sudo /bin/systemctl start postgresql-9.5  
sudo /etc/init.d/repmgrd restart

sudo -u postgres repmgr primary register

$ psql -U rep\_mgr -c 'select node\_id, node\_name, type, conninfo from repmgr.nodes' -d rep  
-mgr

node\_id | node\_name | type | conninfo

---------+----------------+---------+------------------

1 | primary-server | primary | host=192.168.0.1

sudo /etc/init.d/postgresql stop

sudo -u postgres repmgr -h '192.168.0.1' -U repmgr -d repmgr -D

/var/lib/pgsql/9.5/data -f /etc/repmgr/9.5/repmgr.conf standby

clone

sudo /bin/systemctl start postgresql-9.5

repmgr -f /etc/repmgr/9.5/repmgr.conf standby register --verbose

$ psql -U rep\_mgr -c 'select node\_id, upstream\_node\_id, node\_name, type from repmgr.nodes' -d rep\_mgr

node\_id | upstream\_node\_id | node\_name | type |   
--------+------------------+-----------------+---------+  
 1 | | primary-server | primary |  
 2 | 1 | standby-server | standby |

#########

SELECT application\_name, pg\_xlog\_location\_diff(sent\_location, flush\_location) AS lag  
FROM pg\_stat\_replication  
ORDER BY replay\_delta ASC, application\_name;

DO $$  
 DECLARE result int;  
BEGIN  
 EXECUTE 'SELECT x''' || replace(sent\_location,'/','') || '''::int - x''' || replace(flush\_location,'/','') || '''::int' FROM pg\_stat\_replication INTO result;  
 RAISE NOTICE 'Replication lag: % bytes', result;  
END $$;