

```
##### Replication with REPMGR #####
```

URL followed : <https://www.enterprisedb.com/postgres-tutorials/how-implement-repmgr-postgresql-automatic-failover>

Assumption :

```
master ip: 192.168.1.1  
master data directory : /var/lib/pgsql/master
```

```
slave ip: 192.168.1.2  
slave data directory : /var/lib/pgsql/standby/
```

```
##### We assume that Replication is already configured and is working fine
```

Now we are installing REPMGR for monitoring:

Installation steps of repmgr: (The tool should be installed on all nodes which we want in topology)

```
1:rpm --import http://packages.2ndquadrant.com/repmgr/RPM-GPG-KEY-repmgr  
2: yum install http://packages.2ndquadrant.com/repmgr/yum-repo-rpms/repmgr-rhel-  
1.0-1.noarch.rpm  
3: yum --showduplicates list repmgr96  
## note down the appropriate version for your machine  
4: yum install repmgr96-4.0.0-1.rhel6  
5: su - postgres  
6: cd /usr/pgsql9.6/bin  
7: you can see repmgr here  
8: create repmgr.conf in your data directory  
vi /var/lib/pgsql/master/repmgr.conf  
  
node_id=1  
node_name=192.168.1.1  
conninfo='host=192.168.1.1 user=postgres dbname=postgres connect_timeout=2'  
data_directory='/var/lib/pgsql/master/'  
  
#####update pg_hba.conf on master  
  
# IPv4 local connections:  
host    all            all      127.0.0.1/32      trust  
host    postgres       postgres  192.168.1.1/32    trust  
host    postgres       postgres  192.168.1.2/32    trust  
  
# replication privilege.
```

```
#local    replication    postgres          trust
#host    replication    postgres          127.0.0.1/32   trust
#host    replication    postgres          ::1/128        trust
host    replication    postgres          192.168.1.2/32 trust
host    replication    postgres          192.168.1.1/32 trust
```

save the files and restart the instance

```
./pg_ctl -D /var/lib/pgsql/master restart
```

9: register master server :  
cd /usr/pgsql9.6/bin

```
./repmgr -f /var/lib/pgsql/master/repmgr.conf primary register
```

10: Verify status of the cluster like this:

```
psql
```

```
select * from repmgr.nodes;
```

```
#####SLAVE config #####
```

1: ensure entry in pg\_hba

```
IPv4 local connections:
host    all            all            127.0.0.1/32   trust
host    postgres       postgres       192.168.1.2/32 trust
# IPv6 local connections:
host    all            all            ::1/128        trust
# Allow replication connections from localhost, by a user with the
# replication privilege.
#local  replication    postgres          trust
#host   replication    postgres          127.0.0.1/32   trust
#host   replication    postgres          ::1/128        trust
host   replication    postgres          192.168.1.2/32 trust
```

2: create repmgr.conf in data directory

```
node_id=2
node_name=192.168.1.2
conninfo='host=192.168.1.2 user=postgres dbname=postgres connect_timeout=2'
data_directory='/var/lib/pgsql/standby'
```

3 : save and restart the server

```
./pg_ctl -D /var/lib/pgsql/standby restart
```

4: dry run of repmgr to check the connectivity :

```
./repmgr -h 192.168.1.1 -U postgres -d postgres -f
/var/lib/pgsql/standby/rpmgr.conf standby clone --dry-run
```

5: Register the slave

```
./repmgr -f /var/lib/pgsql/standby/repmgr.conf standby register
```

6: Monitoring from Master

```
select * from repmgr.nodes;
```

Some more operation with repmgr

->To promote a standby to be the new master, use the following command:

```
stop the master because if master is active then slave wont be promoted then fire  
the statement in slave machine  
export PATH=$PATH:/usr/pgsql-9.6/bin/  
repmgr standby promote
```

->To request a standby to follow a new master, use the following command:  
repmgr standby follow

-> Check the status of each registered node in the cluster, like this:  
repmgr cluster show