https://stackoverflow.com/questions/72611651/how-can-i-upgrade-postgresql-from-version-11-to-version-13

steps to upgrade a PostgreSQL cluster from 11 to 13:

* Verify the current cluster is the still the old version:

$ pg\_lsclusters

Ver Cluster Port Status Owner Data directory Log file

11 main 5432 online postgres /var/lib/postgresql/11/main /var/log/postgresql/postgresql-11-main.log

13 main 5434 down postgres /var/lib/postgresql/13/main /var/log/postgresql/postgresql-13-main.log

* Run pg\_dropcluster 13 main as user postgres:

$ sudo -u postgres pg\_dropcluster 13 main

Warning: systemd was not informed about the removed cluster yet.

Operations like "service postgresql start" might fail. To fix, run:

sudo systemctl daemon-reload

* Run the pg\_upgradecluster command as user postgres:
* $ sudo -u postgres pg\_upgradecluster 11 main

Verify that everything works, and that the only online cluster is now 13:

* $ pg\_lsclusters

Ver Cluster Port Status Owner Data directory Log file

11 main 5434 down postgres /var/lib/postgresql/11/main /var/log/postgresql/postgresql-11-main.log

13 main 5432 online postgres /var/lib/postgresql/13/main /var/log/postgresql/postgresql-13-main.log

* Drop the old cluster: $ sudo -u postgres pg\_dropcluster 11 main
* Uninstall the previous version of PostgreSQL:

$ sudo apt remove 'postgresql\*11'

Can restart the new database sever by: $pg\_ctlcluster 13 main start

Drop the older cluster with: $pg\_cropcluster 11 main

ALTER SUBSCRIPTION <name> REFRESH PUBLICATION to subscribe the tables