

# PostgreSQL Server Upgrade

## Upgrade from pg14 to pg15

### - Add contribution modules RPM:

```
yum install postgresql14-contrib.x86_64
```

```
yum install postgresql15-contrib.x86_64
```

### - Initialize pg14 data cluster:

```
rm -rf /var/lib/pgsql/14/data/
```

```
mkdir -p /mnt/pq/14/data
```

```
chown postgres.postgres -R /mnt
```

```
export PGSETUP_INITDB_OPTIONS="--auth-  
local=peer--auth-host=md5--pgdata=/mnt/pg/14/data"  
/usr/pgsql-14/bin/postgresql-14-setup initdb
```

```
systemctl edit postgresql-14 --full
```

```
systemctl edit postgresql-14
```

```
systemctl start postgresql-14
```

```
# edit pg_hba.conf
```

```
# edit postgresql.conf
```

- Initialize pg15 data cluster:

```
rm -rf /var/lib/pqsql/15/data/  
mkdir -p /mnt/pg/15/data  
chown postgres.postgres -R /mnt
```

```
export PGSETUP INITDB_OPTIONS="--auth-  
local=peer --auth-host=md5 --pgdata=/mnt/pg/15/data"  
/usr/pqsql-15/bin/postgresql-15-setup initdb
```

```
systemctl edit postgresql-15 --full  
systemctl edit postgresql-15
```

```
systemctl start postgresql-15  
systemctl stop postgresql-15
```

```
# edit pg_hba.conf  
# edit postgresql.conf
```

- Unset/update PGDATA:

```
su - postgres  
vi .bash_profile
```

- PostgreSQL upgrade:

```
# initialize a new, empty cluster version 15
```

```
# EXECUTE TWICE, FIRST TIME WITH '--check',  
THEN WITHOUT
```

```
/usr/pgsql-15/bin/pg_upgrade \  
-b /usr/pgsql-14/bin/ \  
-B /usr/pgsql-15/bin/ \  
-d /mnt/pg/14/data \  
-D /mnt/pg/15/data \  
-l \  
-c
```

- About extensions

- About rollbacks

- About upgrading standby hosts

```
#
```

```
#
```

```
# AS POSTGRES on PRIMARY
```

```
# (requires either password or private key)
```

```
#
```

```
rsvnc --archive --delete --hard-links --size-only --no-inc-  
recursive \  
/mnt/pg/14/data \  
/mnt/pg/15/data \  
pg2:/mnt/pg
```

ATTENTION: perform adhoc activities in REPLICA:  
PGDATA

- standby file