



[ec2-user@ip-172-31-16-206 ~]\$ mkdir -p /home/ec2-user/pg_backup

```
[ec2-user@ip-172-31-16-206 ~]$ chown -R ec2-user:ec2-user /home/ec2-user/pg_backup
[ec2-user@ip-172-31-16-206 ~]$ chmod -R 700 /home/ec2-user/pg_backup
[ec2-user@ip-172-31-16-206 ~]$ pg_basebackup -h 127.0.0.1 -D /home/ec2-user/pg_backup -
F tar -z -P -U postgres
Password:
WARNING: aborting backup due to backend exiting before pg_backup_stop was called
0/23275 kB (0%), 1/1 tablespace
pg_basebackup: error: backup failed: ERROR: could not open file "./.postgresql.conf.swp":
Permission denied
pg_basebackup: removing contents of data directory "/home/ec2-user/pg_backup"
[ec2-user@ip-172-31-16-206 ~]$
```

The persistent error about `.postgresql.conf.swp` inside your backup directory suggests that `pg_basebackup` encounters this swap file during the backup process, but it should not.

However, the `.swp` file is normally located in the PostgreSQL data directory, not the backup directory, so it seems the backup is including the `.swp` file from the source PostgreSQL data directory.

Important points and what to do:

1. `.postgresql.conf.swp` **is likely located in your PostgreSQL data directory** (`/var/lib/pgsql/17/data/`), not `/home/ec2-user/pg_backup.**`
It's a Vim temporary swap file from editing `postgresql.conf`. Having this file there can cause problems during backup because it's a temporary file and may have restricted permissions.
2. **Check and remove `.swp` files from the PostgreSQL data directory:**

Run:

```
sudo find /var/lib/pgsql/17/data/ -name "*.swp"
```

If `.postgresql.conf.swp` or other `.swp` files are found, delete them carefully:

```
sudo rm /var/lib/pgsql/17/data/.postgresql.conf.swp
```

Or if multiple:

```
sudo find /var/lib/pgsql/17/data/ -name "*.swp" -exec sudo rm {} \;
```

3. Make sure the PostgreSQL data directory and contents have correct ownership and permissions:

```
sudo chown -R postgres:postgres /var/lib/pgsql/17/data/  
sudo chmod -R 700 /var/lib/pgsql/17/data/
```

4. After cleaning .swp files, restart PostgreSQL:

```
sudo systemctl restart postgresql-17
```

5. Run pg_basebackup again with your existing command:

```
pg_basebackup -h 127.0.0.1 -D /home/ec2-user/pg_backup -F tar -z -P -U postgres
```

Summary:

- The swap file `.postgresql.conf.swp` inside your PostgreSQL configuration directory is causing the failure.
- Remove that swap file from `/var/lib/pgsql/17/data/`.
- Restart PostgreSQL to ensure stable state.
- Retry your backup.

Let me know if you want commands to find and remove `.swp` files or any further help!