Steps to replicate

Start with Ubuntu 16.04 or 18.04 LTS Server ISO https://ubuntu.com/download/server

In Oracle Virtualbox this server only needs minimal resources 2cpu 2GB memory. Use a bridged network, this will present the VM NIC to the same network your host machine is on making it easy to connect to in the future.

Install Ubuntu and install SSH. Do NOT install PostgresSQL from the Ubuntu installer as it will grab the latest version 12, we need to manually select version 10.

Once Ubuntu is installed ensure all updates are applied; sudo apt-get update && sudo apt-get upgrade

If using 16.04 you need to add the postgresql repository using this guide, if 18.04 this can be skipped. https://www.postgresql.org/download/linux/ubuntu/

Install postgresql 10;   sudo apt-get install postgresql-10

Switch over to the postgres account on your server by typing: sudo -i -u postgres

From here easily change password; psql -c "alter user postgres with password 'passW0rdhere'"

Logout of the postgres account and get back to your login.

Edit these two files to allow PostgreSQL to listen to your local LAN subnet:

       sudo nano /etc/postgresql/10/main/pg_hba.conf

       add in your local subnet and CIDR header: host all all 192.168.105.0/24 md5

  and:

       sudo nano /etc/postgresql/10/main/postgresql.conf

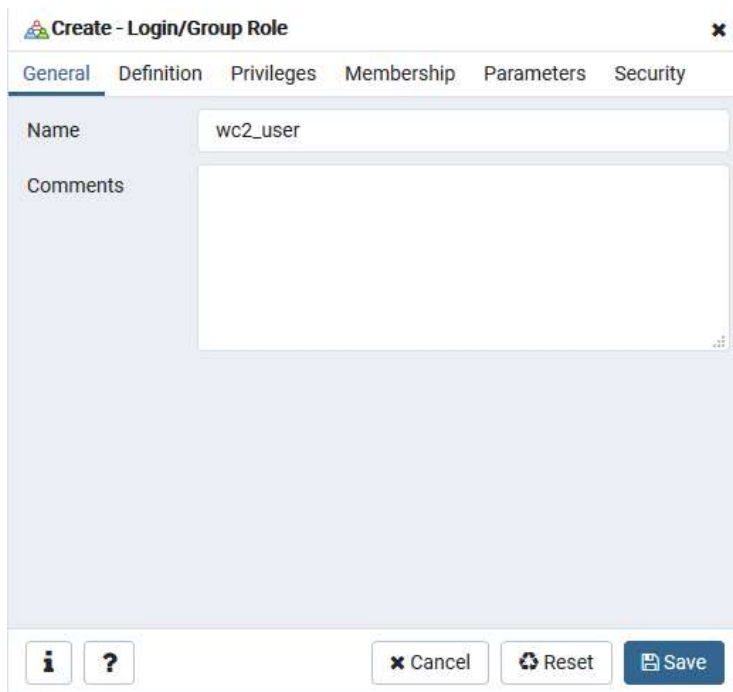   Change listen to all interfaces; listen_addresses = '*'

       (Must remove leading # to mark line in use!!)

Restart the service or simply the whole computer to make changes active; sudo shutdown –r now

If you used DHCP in networking find the IP with; ifconfig

Now you have PostgreSQL 10 listening on your local LAN with user account postgres and a password you know. Suggest using pgAdmin4 on Windows from here.

Connect pgAdmin4 and create a new login role name. The password is on the definition tab.
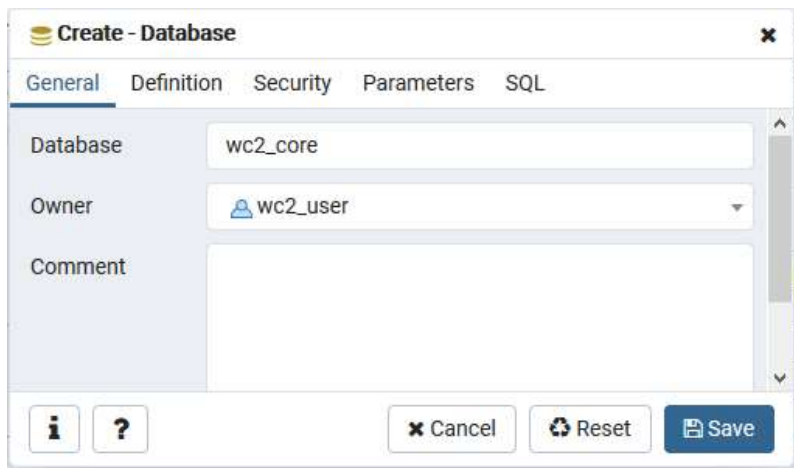
Enable privileges; login, create role, create db.
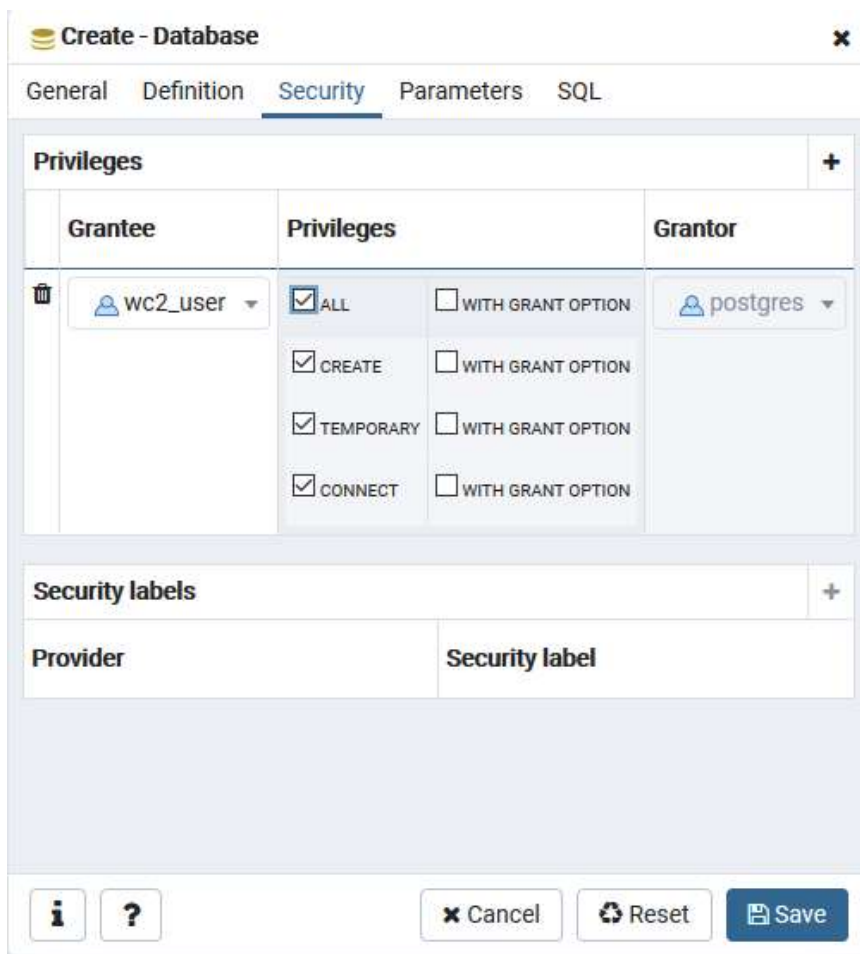
Create four databases. Make the owner the user you just created.

In DB security tab grantee is the same user and select privileges all

Grab latest JDBC driver and place in WebCTRL database-drivers folder.
https://jdbc.postgresql.org/download.html

Open SiteBuilder and either create new or use existing job file and replicate the database.

Put in connection info

Connection should test good
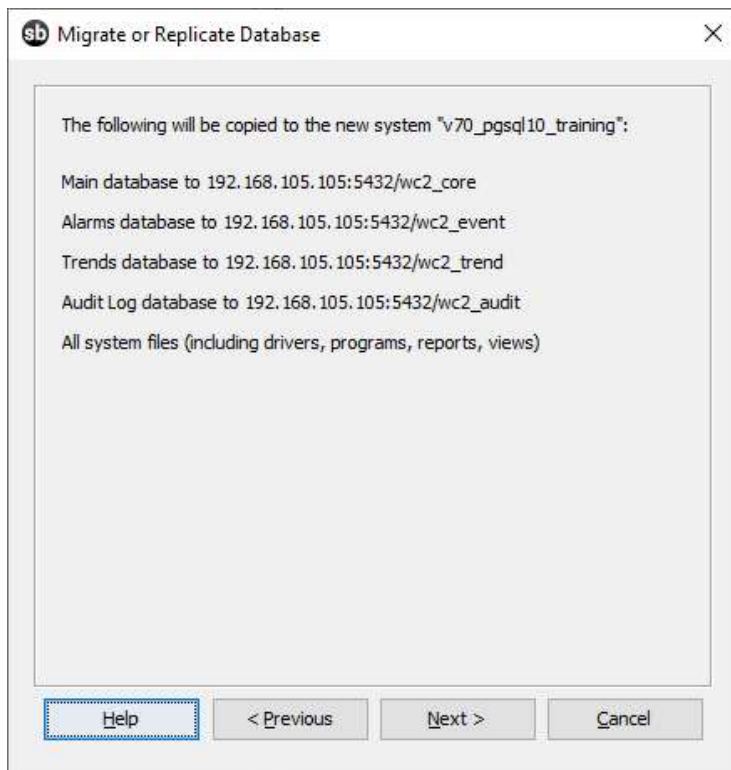
Data should be pushed to postgresql;
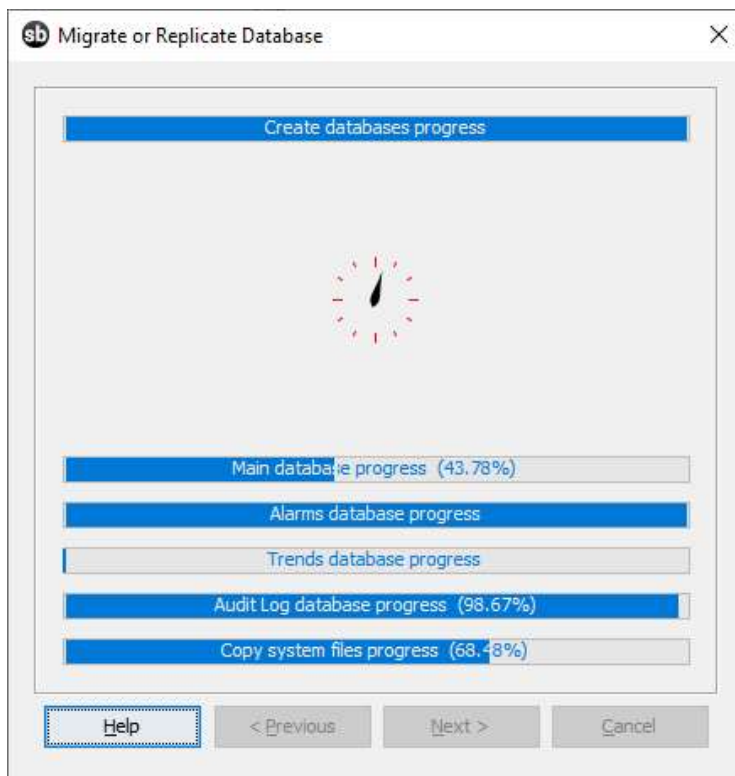
Failure message shown. No SQL or other logs relating to this appear in C:\WebCTRL7.0\logs

Migrate or Replicate Database ✕

Error Replicating Database:

For input string: "12 (Ubuntu 10"

| Help | < Previous | Finish | Cancel |

On the SQL server there are errors in the log;
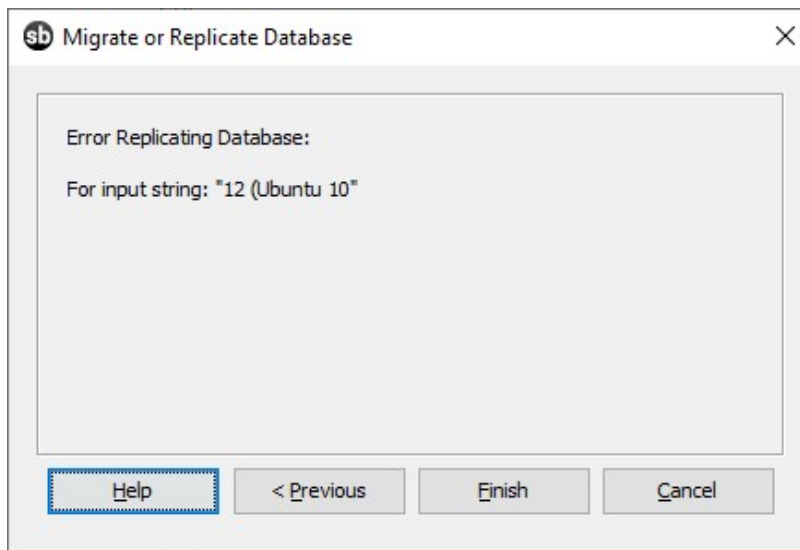
```
scottj@ubuntu1604:/var/log/postgresql$ tail -10 postgresql-10-main.log

2020-04-01 15:07:03.728 EDT [1623] wc1_user@wc1_audit ERROR:  relation "cj_lock" does not exist at
character 46

2020-04-01 15:07:03.728 EDT [1623] wc1_user@wc1_audit STATEMENT:  Select RUNMODE_, SYSTEM_ID_, LOCK_TIME_
From CJ_LOCK

2020-04-01 16:10:36.777 EDT [2141] wc2_user@wc2_core ERROR:  relation "cj_lock" does not exist at
character 46

2020-04-01 16:10:36.777 EDT [2141] wc2_user@wc2_core STATEMENT:  Select RUNMODE_, SYSTEM_ID_, LOCK_TIME_
From CJ_LOCK

2020-04-01 16:10:36.820 EDT [2142] wc2_user@wc2_event ERROR:  relation "cj_lock" does not exist at
character 46

2020-04-01 16:10:36.820 EDT [2142] wc2_user@wc2_event STATEMENT:  Select RUNMODE_, SYSTEM_ID_, LOCK_TIME_
From CJ_LOCK

2020-04-01 16:10:36.848 EDT [2143] wc2_user@wc2_trend ERROR:  relation "cj_lock" does not exist at
character 46

2020-04-01 16:10:36.848 EDT [2143] wc2_user@wc2_trend STATEMENT:  Select RUNMODE_, SYSTEM_ID_, LOCK_TIME_
From CJ_LOCK

2020-04-01 16:10:36.884 EDT [2144] wc2_user@wc2_audit ERROR:  relation "cj_lock" does not exist at
character 46

2020-04-01 16:10:36.884 EDT [2144] wc2_user@wc2_audit STATEMENT:  Select RUNMODE_, SYSTEM_ID_, LOCK_TIME_
From CJ_LOCK

scottj@ubuntu1604:/var/log/postgresql$
```