The catalog corruption can be checked using the pg_catcheck utility and the command format is as shown below.

./pg_catcheck -v -h <hostname> -p <port> -U <database user> <database name>

As per the update, we could see that you're trying to install the pg_catcheck tool, however, facing some dependency issues.

So, could you please follow the below steps to install the pg_catcheck tool?

Steps:

1. Downloaded the pg_catcheck zip from here.

   https://github.com/EnterpriseDB/pg_catcheck

   > How to download the pg_catcheck ?
   * Go to the URL https://github.com/EnterpriseDB/pg_catcheck
   * Click on "code" option
   * Click on "Download Zip"

2. Setting the environmental variables

   [root@gkmaster pg_catcheck-master]# export LD_LIBRARY_PATH=/usr/edb/as11/lib

   [root@gkmaster pg_catcheck-master]# export PATH=/usr/edb/as11/bin:$PATH

   [root@gkmaster pg_catcheck-master]# export PG_CONFIG=/usr/edb/as11/bin/pg_config

3. Checking the pg_config information

   [root@gkmaster pg_catcheck-master]# pg_config

   BINDIR = /usr/edb/as11/bin

   DOCDIR = /usr/edb/as11/doc/postgresql

   <snippet>

   VERSION = PostgreSQL 10.7

4. Execute Make command

[root@gkmaster pg_catcheck-master]# make

Note:-*** Here it might be possible that you may face some dependency issue while executing make commands like below.

bin/ld: cannot find -lxslt

/bin/ld: cannot find -lxml2

/bin/ld: cannot find -lpam

/bin/ld: cannot find -ledit

collect2: error: ld returned 1 exit status

make: *** [pg_catcheck] Error 1

If you face the above issue at your end as well, then please try to install the below packages and then again try to make.

>>> [root@localhost pg_catcheck-master]# yum install pam*

>>> [root@localhost pg_catcheck-master]# yum install *libxml2*

>>> [root@localhost pg_catcheck-master]# make LIBS='-lpq -lpqport'

gcc -Wall -Wmissing-prototypes -Wpointer-arith -Wdeclaration-after-statement -Wendif-labels -Wmissing-format-attribute -Wformat-security -fno-strict-aliasing -fwrapv -g -O2 -DMAP_HUGETLB=0x40000 -pthread -D_REENTRANT -D_THREAD_SAFE -D_POSIX_PTHREAD_SEMANTICS pg_catcheck.o check_attribute.o check_class.o check_depend.o check_oids.o compat.o definitions.o log.o pgrhash.o -L/usr/edb/as11/lib -L/opt/local/Current/lib -Wl,--as-needed -Wl,-rpath,'/usr/edb/as11/lib',--enable-new-dtags -L/usr/edb/as11/lib -lpgcommon -lpgport -L/usr/edb/as11/lib -lpq -lpq -lpqport -o pg_catcheck

/bin/ld: cannot find -lpqport

collect2: error: ld returned 1 exit status

make: *** [pg_catcheck] Error 1

Note:-* If you face the same above issue with the above command then use the below command.**

>>> [root@localhost pg_catcheck-master]# make LIBS='-lpq'

gcc -Wall -Wmissing-prototypes -Wpointer-arith -Wdeclaration-after-statement -Wendif-labels -Wmissing-format-attribute -Wformat-security -fno-strict-aliasing -fwrapv -g -O2 -DMAP_HUGETLB=0x40000 -pthread -D_REENTRANT -D_THREAD_SAFE -D_POSIX_PTHREAD_SEMANTICS pg_catcheck.o check_attribute.o check_class.o check_depend.o check_oids.o compat.o definitions.o log.o pgrhash.o -L/usr/edb/as11/lib -L/opt/local/Current/lib -Wl,--as-needed -Wl,-rpath,'/usr/edb/as11/lib',--enable-new-dtags -L/usr/edb/as11/lib -lpgcommon -lpgport -L/usr/edb/as11/lib -lpq -lpq -o pg_catcheck

5. [root@localhost pg_catcheck-master]# make install

/bin/mkdir -p '/usr/edb/as11/bin'

/usr/bin/install -c pg_catcheck '/usr/edb/as11/bin'

6. Run the pg_catcheck

[root@localhost bin]# su postgres

[root@localhost bin]# cd /usr/edb/as11/bin/

[root@localhost bin]#. /pg_catcheck --help

pg_catcheck is a catalog table validation tool for PostgreSQL.

Usage:

pg_catcheck [OPTION]... [DBNAME]

Options:

-c, --column check only the named columns

-t, --table check only columns in the named tables

-T, --exclude-table do NOT check the named tables

-C, --exclude-column do NOT check the named columns

--target-version=VERSION assume specified target version

--enterprisedb assume EnterpriseDB database

--postgresql assume PostgreSQL database

-h, --host=HOSTNAME database server host or socket directory

-p, --port=PORT database server port number

-q, --quiet do not display progress messages

-U, --username=USERNAME connect as specified database user

-v, --verbose enable verbose internal logging

-V, --version output version information, then exit

-?, --help

*** Use the required pg_catcheck command as per the option available above.

Note: Please use the PGBIIN and PGLIB directories as per your environment.

Once the pg_catcheck is installed please collect the o/p of the below command and share the o/p of the same.

./pg_catcheck -v -h <hostname> -p <port> -U <database user> <database name>