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How To Upgrade Postgres To New Version



In this article, we will explain, How to upgrade from postgres 12 to postgres 14 version. This will be considered as major upgrade.

Minor upgrade is like upgrading from 9.6 version to 9.7 version. For minor upgrade, You just need to upgrade the rpms. Which We will do that in another article.

1. First download and install the postgres 14

https://yum.postgresql.org/rpmchart/ (https://yum.postgresql.org/rpmchart/)

-rwxr-xr-x 1 root root 1556440 Apr 26 15:01 postgresql14-14.2-1PGDG.rhel7.x86_64.rpm
-rwxr-xr-x 1 root root 698212 Apr 26 15:01 postgresql14-contrib-14.2-1PGDG.rhel7.x86_64.rpm
-rwxr-xr-x 1 root root 273192 Apr 26 15:01 postgresql14-libs-14.2-1PGDG.rhel7.x86_64.rpm
-rwxr-xr-x 1 root root 5783224 Apr 26 15:01 postgresql14-server-14.2-1PGDG.rhel7.x86_64.rpm

Make sure to install the rpms in below sequence only. Otherwise you will dependency errors.





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BACKUP & RECOVERY
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category/cloud/)

	(maps,) anadiass.com, article
> Package postgresq114-libs.x86_64 0:14.2-1PGDG.rhel7 will be installed > Finished Dependency Resolution	category/database-wiki/)
Dependencies Resolved	DATAGUARD 28 (https://dbaclass.com/article-category/dataguard/)
	DR TOOLS
Package Arch Version Repository Size	(https://dbaclass.com/article-
	category/db-tools/)
Installing:	GOLDENGATE 18
postgresql14-libs	(https://dbaclass.com/article- category/goldengate/)
Transaction Summary	HADOOP (https://dbaclass.com/article ³ category/hadoop/)
Install 1 Package	category/nadoop/)
Total size: 919 k Installed size: 919 k	HOW TO (https://dbaclass.com/article ⁴⁷ category/how-to/)
Installed Size: 919 k Is this ok [y/d/N]: y	
Downloading packages:	INTERVIEW QA
Running transaction check	(https://dbaclass.com/article- category/interview-ga/)
Running transaction test	category/interview-qa/)
Transaction test succeeded	ORACLE 12C 61
Running transaction Warning: RPMDB altered outside of yum.	(https://dbaclass.com/article-
<pre>Installing : postgresq114-libs-14.2-1PGDG.rhel7.x86_64</pre>	category/oracle-12c/)
1/1 Verifying : postgresql14-libs-14.2-1PGDG.rhel7.x86_64 1/1	ORACLE 18C 5
rhel-7-server-rpms/7Server/x86_64/productid	(https://dbaclass.com/article-
2.1 kB 00:00:00	category/oracle-18c/)
Installed: postgresql14-libs.x86_64 0:14.2-1PGDG.rhel7	ORACLE 19C 12 (https://dbaclass.com/article-
	category/oracle-19c/)
Complete! [root@dbahost14 pg_12]# yum install postgresql14-14.2-1PGDG.rhel7.x86_64.rpm	ORACLE RAC 59
Loaded plugins: langpacks, product-id, search-disabled-repos, subscription-manager	(https://dbaclass.com/article-
Examining postgresql14-14.2-1PGDG.rhel7.x86_64.rpm: postgresql14-14.2-1PGDG.rhel7.x86_64	category/oracle-rac/)
Marking postgresql14-14.2-1PGDG.rhel7.x86_64.rpm to be installed Resolving Dependencies	ODACLE SECUDITY 13
> Running transaction check	ORACLE SECURITY
> Package postgresql14.x86_64 0:14.2-1PGDG.rhel7 will be installed> Finished Dependency Resolution	(https://dbaclass.com/article- category/oracle-security/)
	DEDECRMANICE TUNING 30
Dependencies Resolved	PERFORMANCE TUNING (https://dbaclass.com/article- category/performance-tuning/)
Package Arch Version	POSTGRES 29
Repository Size	(https://dbaclass.com/article-
	category/postgres/)
Installing:	R-STUDIO 4
postgresql14	(https://dbaclass.com/article-
/postgresql14-14.2-1PGDG.rhel7.x86_64 7.8 M	category/r-studio/)
Transaction Summary	SHELL SCRIPT 13
	(https://dbaclass.com/article-
Install 1 Package	category/shell-script/)
Total size: 7.8 M	TROUBLESHOOTING 152
Installed size: 7.8 M	TROUBLESHOOTING
Is this ok [y/d/N]: y	(https://dbaclass.com/article- category/troubleshooting/)
Downloading packages:	category/ (roubles flootifig/)
Running transaction check	WEBLOGIC 3
Running transaction test	(https://dbaclass.com/article-

```
· , ---, ----, ----, -----
                                                                                                                                                        database-from-11g-to-12c-manually/)
is not a symlink
failed to link /usr/bin/createdb -> /etc/alternatives/pgsql-createdb: /usr/bin/createdb exists and it is
                                                                                                                                                        ⊚ 109704 ♥ 16
not a symlink
failed to link /usr/bin/createuser -> /etc/alternatives/pgsql-createuser: /usr/bin/createuser exists and
                                                                                                                                                        Upgrade database from 12.1.0.2 to
it is not a symlink
                                                                                                                                                         12.2.0.1
failed \ to \ link \ /usr/bin/dropdb \ -> \ /etc/alternatives/pgsql-dropdb: \ /usr/bin/dropdb \ exists \ and \ it \ is \ not \ a
                                                                                                                                                        (https://dbaclass.com/article/upgrade-
symlink
                                                                                                                                                        database-from-12-1-0-2-to-12-2-0-1/)
failed to link /usr/bin/dropuser -> /etc/alternatives/pgsql-dropuser: /usr/bin/dropuser exists and it is
not a symlink
                                                                                                                                                         @81999 •9
failed to link /usr/bin/pg_dump -> /etc/alternatives/pgsql-pg_dump: /usr/bin/pg_dump exists and it is not
a symlink
                                                                                                                                                        ORA-04036: PGA memory used by the
failed \ to \ link \ /usr/bin/pg\_dumpall \ -> /etc/alternatives/pgsql-pg\_dumpall: \ /usr/bin/pg\_dumpall \ exists \ and \ /usr/bin/pg\_dumpall \ exists 
                                                                                                                                                        instance exceeds
it is not a symlink
                                                                                                                                                         PGA_AGGREGATE_LIMIT
failed \ to \ link \ /usr/bin/pg\_restore \ -> \ /etc/alternatives/pgsql-pg\_restore: \ /usr/bin/pg\_restore \ exists \ and \ ...
                                                                                                                                                         (https://dbaclass.com/article/ora-
it is not a symlink
                                                                                                                                                        04036-pga-memory-used-by-the-
failed to link /usr/bin/reindexdb -> /etc/alternatives/pgsql-reindexdb: /usr/bin/reindexdb exists and it
                                                                                                                                                        instance-exceeds-
is not a symlink
                                                                                                                                                        pga_aggregate_limit/)
failed to link /usr/bin/vacuumdb -> /etc/alternatives/pgsql-vacuumdb: /usr/bin/vacuumdb exists and it is
not a symlink
                                                                                                                                                        ⊚80764 ♥3
  Verifying : postgresql14-14.2-1PGDG.rhel7.x86_64
1/1
                                                                                                                                                        Prerequisite check
                                                                                                                                                         "CheckActiveFilesAndExecutables"
Installed:
  postgresql14.x86_64 0:14.2-1PGDG.rhel7
                                                                                                                                                        (https://dbaclass.com/article/prerequisite-
                                                                                                                                                        check-checkactivefilesandexecutables-
                                                                                                                                                        failed/)
[root@dbahost14 pg 12]# yum install postgresql14-server-14.2-1PGDG.rhel7.x86_64.rpm
                                                                                                                                                        Loaded plugins: langpacks, product-id, search-disabled-repos, subscription-manager
Examining postgresql14-server-14.2-1PGDG.rhel7.x86_64.rpm: postgresql14-server-14.2-1PGDG.rhel7.x86_64
                                                                                                                                                        install oracle goldengate 12c on linux 7
Marking postgresql14-server-14.2-1PGDG.rhel7.x86_64.rpm to be installed
                                                                                                                                                        (https://dbaclass.com/article/install-
Resolving Dependencies
                                                                                                                                                         oracle-goldengate-12c-on-linux-7/)
--> Running transaction check
---> Package postgresql14-server.x86_64 0:14.2-1PGDG.rhel7 will be installed
                                                                                                                                                        ⊚67158 ♥0
--> Finished Dependency Resolution
                                                                                                                                                        How to run SQL tuning advisor for a
Dependencies Resolved
                                                                                                                                                        sal id
                                                                                                                                                        (https://dbaclass.com/article/how-to-
_______
                                                                                                                                                         run-sql-tuning-advisor-for-a-sql_id/)
_____
                                                                                                                                                        ⊚65028 ♥9
 Package
                                                        Arch
Repository
                                                                                                                                                        Transparent Data Encryption (TDE) in
------
                                                                                                                                                         oracle 12c
_____
Installing:
                                                                                                                                                         (https://dbaclass.com/article/transparent-
 postgresql14-server
                                                        x86_64
                                                                                             14.2-1PGDG.rhel7
                                                                                                                                                        data-encryption-tde-in-oracle-12c/)
/postgresql14-server-14.2-1PGDG.rhel7.x86_64
                                                                                                                                                        ⊚55154 ♥2
Transaction Summary
                                                                                                                                                        How to drop and recreate temp
______
                                                                                                                                                         tablespace in oracle
______
                                                                                                                                                        (https://dbaclass.com/article/how-to-
Install 1 Package
                                                                                                                                                        drop-and-recreate-temp-tablespace-
                                                                                                                                                        in-oracle/)
Total size: 22 M
Installed size: 22 M
                                                                                                                                                        Is this ok [y/d/N]: y
Downloading packages:
                                                                                                                                                        ORA-01624: log 1 needed for crash
Running transaction check
                                                                                                                                                        recovery of instance
Running transaction test
                                                                                                                                                        (https://dbaclass.com/article/ora-
Transaction test succeeded
                                                                                                                                                        01624-log-1-needed-for-crash-
Running transaction
                                                                                                                                                        recovery-of-instance/)
  Installing : postgresql14-server-14.2-1PGDG.rhel7.x86_64
1/1
                                                                                                                                                        ⊚50928 ♥2
  Verifying : postgresql14-server-14.2-1PGDG.rhel7.x86_64
1/1
                                                                                                                                                        ORA-24247: network access denied by
                                                                                                                                                        access control list (ACL)
Installed:
                                                                                                                                                        (https://dbaclass.com/article/ora-
  postgresql14-server.x86_64 0:14.2-1PGDG.rhel7
                                                                                                                                                        24247-network-access-denied-by-
                                                                                                                                                        access-control-list-acl/)
Complete!
[root@dbahost14 pg_12]# yum install postgresql14-contrib-14.2-1PGDG.rhel7.x86_64.rpm
                                                                                                                                                        ⊚50173 ♥0
Loaded plugins: langpacks, product-id, search-disabled-repos, subscription-manager
```

```
Dependencies Resolved
_____
Package
                           Arch
Repository
                                            Size
______
______
Installing:
                                             14.2-1PGDG.rhel7
postgresql14-contrib
                           x86_64
/postgresql14-contrib-14.2-1PGDG.rhel7.x86_64
Transaction Summary
______
Install 1 Package
Total size: 2.4 M
Installed size: 2.4 M
Is this ok [y/d/N]: y
Downloading packages:
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
 Installing : postgresql14-contrib-14.2-1PGDG.rhel7.x86_64
 Verifying : postgresql14-contrib-14.2-1PGDG.rhel7.x86 64
1/1
Installed:
 postgresql14-contrib.x86_64 0:14.2-1PGDG.rhel7
Complete!
[root@dbahost14 pg_12]#
```

2. Initialise the postgres 14 version cluster.

```
-bash-4.2$ /usr/pgsql-14/bin/initdb -D /var/lib/pgsql/14/data
The files belonging to this database system will be owned by user "postgres".
This user must also own the server process.
The database cluster will be initialized with locale "en_US.UTF-8".
The default database encoding has accordingly been set to "UTF8".
The default text search configuration will be set to "english".
Data page checksums are disabled.
fixing permissions on existing directory /var/lib/pgsql/14/data ... ok
creating subdirectories ... ok
selecting dynamic shared memory implementation ... posix
selecting default max_connections ... 100
selecting default shared_buffers ... 128MB
selecting default time zone ... Asia/Riyadh
creating configuration files ... ok
running bootstrap script ... ok
performing post-bootstrap initialization ... ok
syncing data to disk ... ok
initdb: warning: enabling "trust" authentication for local connections
You can change this by editing pg_hba.conf or using the option -A, or
--auth-local and --auth-host, the next time you run initdb.
Success. You can now start the database server using:
    ./pg_ctl -D /var/lib/pgsql/14/data -l logfile start
```

3. Run the postgres upgrade with check option.

Tags

12c (Https://Dbaclass.Com/Article-Tag/12c/)

19C (Https://Dbaclass.Com/Article-Tag/19c/)

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(Https://Dbaclass.Com/Article-Tag/Archive/)

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Database

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Dataguard

(Https://Dbaclass.Com/Article-Tag/Dataguard/)

Dgmgrl

(Https://Dbaclass.Com/Article-Tag/Dgmgrl/) it will not do the actual upgrade , it will do the precheck.

iay/Lub//

EXPDF

(Https://Dbaclass.Com/Article-Tag/Expdp/)

Failover

(Https://Dbaclass.Com/Article-Tag/Failover/)

Flashback

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Oracle

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Oracle 12.2.

(Https://Dbaclass.Com/Article-Tag/Oracle-12-2/)

Oracle 12c

(Https://Dbaclass.Com/Article-Tag/Oracle-12c/)

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Failure, exiting -- To avoid this error, go to /tmp location and run teh command again. -bash-4.2\$ pwd /usr/pgsql-14/bin -bash-4.2\$ cd /tmp -bash-4.2\$ /usr/pgsql-14/bin/pg_upgrade -d /var/lib/pgsql/12/data -D /var/lib/pgsql/14/data -b /usr/pgsq l-12/bin -B /usr/pgsql-14/bin -c Performing Consistency Checks on Old Live Server -----Checking cluster versions ok Checking database user is the install user ok ok Checking database connection settings Checking for prepared transactions Checking for system-defined composite types in user tables ok Checking for reg* data types in user tables Checking for contrib/isn with bigint-passing mismatch ok Checking for user-defined encoding conversions ok Checking for user-defined postfix operators οk Checking for presence of required libraries ok Checking database user is the install user ok Checking for prepared transactions ok Checking for new cluster tablespace directories οk *Clusters are compatible* -- Alternatively you can mention --link option -bash-4.2\$ /usr/pgsql-14/bin/pg_upgrade -d /var/lib/pgsql/12/data -D /var/lib/pgsql/14/data -b /usr/pgsq 1-12/bin -B /usr/pgsql-14/bin --link --check Performing Consistency Checks on Old Live Server -----Checking cluster versions ok Checking database user is the install user ok Checking database connection settings ok Checking for prepared transactions ok Checking for system-defined composite types in user tables ok Checking for reg* data types in user tables ok Checking for contrib/isn with bigint-passing mismatch Checking for user-defined encoding conversions ok Checking for user-defined postfix operators ok Checking for presence of required libraries οk Checking database user is the install user ok Checking for prepared transactions ok Checking for new cluster tablespace directories ok *Clusters are compatible*

NOTE – > If you not using link option, then if your postgres cluster size is of 100 GB, then those 100GB will be copied to the new cluster. But if you are using link option, then it will just create symobolic link, Instead of copying

4.Run the actual upgrade:

You need to shutdown the existing cluster before the starting upgrade, otherwise below error.

RAC (Https://Dbaclass.Com/Article-Tag/Rac/)

Replication

(Https://Dbaclass.Com/Article-Tag/Replication/)

Rman

(Https://Dbaclass.Com/Article-Tag/Rman/)

SCRIPT

(Https://Dbaclass.Com/Article-Tag/Script/)

Security

(Https://Dbaclass.Com/Article-Tag/Security/)

SHELL Script

(Https://Dbaclass.Com/Article-Tag/Shell-Script/)

Standby

(Https://Dbaclass.Com/Article-Tag/Standby/)

Tablespace

(Https://Dbaclass.Com/Article-Tag/Tablespace/)

Temp

(Https://Dbaclass.Com/Article-Tag/Temp/)

Undo

(Https://Dbaclass.Com/Article-Tag/Undo/)

Upgrade

(Https://Dbaclass.Com/Article-Tag/Upgrade/)

```
Failure, exiting
-bash-4.2$ /usr/pgsql-12/bin/pg_ctl stop -D /var/lib/pgsql/12/data
waiting for server to shut down.... done
server stopped
-bash-4.2$ /usr/pgsql-14/bin/pg_upgrade -d /var/lib/pgsql/12/data -D /var/lib/pgsql/14/data -b /usr/pgs
ql-12/bin -B /usr/pgsql-14/bin --link
Performing Consistency Checks
_____
Checking cluster versions
                                                           ok
                                                           ok
Checking database user is the install user
Checking database connection settings
                                                            οk
Checking for prepared transactions
                                                           ok
Checking for system-defined composite types in user tables
                                                           ok
Checking for reg* data types in user tables
                                                           ok
Checking for contrib/isn with bigint-passing mismatch
                                                           ok
Checking for user-defined encoding conversions
                                                           ok
Checking for user-defined postfix operators
                                                           ok
Creating dump of global objects
                                                           ok
Creating dump of database schemas
                                                           οk
Checking for presence of required libraries
                                                           ok
Checking database user is the install user
                                                           οk
Checking for prepared transactions
                                                           ok
Checking for new cluster tablespace directories
                                                           ok
If pg_upgrade fails after this point, you must re-initdb the
new cluster before continuing.
Performing Upgrade
Analyzing all rows in the new cluster
                                                           ok
Freezing all rows in the new cluster
                                                           ok
Deleting files from new pg xact
                                                           ok
Copying old pg_xact to new server
                                                           ok
Setting oldest XID for new cluster
                                                           ok
Setting next transaction ID and epoch for new cluster
Deleting files from new pg_multixact/offsets
                                                           ok
Copying old pg_multixact/offsets to new server
                                                           ok
Deleting files from new pg_multixact/members
                                                           οk
Copying old pg_multixact/members to new server
Setting next multixact ID and offset for new cluster
                                                           ok
Resetting WAL archives
                                                           ok
Setting frozenxid and minmxid counters in new cluster
                                                           οk
Restoring global objects in the new cluster
Restoring database schemas in the new cluster
Adding ".old" suffix to old global/pg_control
                                                           ok
If you want to start the old cluster, you will need to remove
the ".old" suffix from /var/lib/pgsql/12/data/global/pg control.old.
Because "link" mode was used, the old cluster cannot be safely
started once the new cluster has been started.
Linking user relation files
                                                           ok
Setting next OID for new cluster
                                                           ok
Sync data directory to disk
                                                           ok
Creating script to delete old cluster
                                                           ok
Checking for extension updates
                                                           ok
Upgrade Complete
Optimizer statistics are not transferred by pg_upgrade.
Once you start the new server, consider running:
   /usr/pgsql-14/bin/vacuumdb --all --analyze-in-stages
Running this script will delete the old cluster's data files:
```

-bash-4.2\$ /usr/pgsql-14/bin/pg_ctl start -D /var/lib/pgsql/14/data waiting for server to start2022-04-26 22:51:53.194 +03 [18271] LOG: redirecting log output to loggin g collector process				
done done				
server started				
postgres-# \list+ List of databases				
Name Owner Encoding Collate Ctype Access privileges Size Tablespa ce Description				
mig_db postgres UTF8 en_US.UTF-8 en_US.UTF-8 141 MB lm_ts				
postgres postgres UTF8				
template0 postgres UTF8				
postgres=CTc/postgres				
template1 postgres UTF8				
(4 rows)				
<pre>postgres=# select version();</pre>				
PostgreSQL 14.2 on x86_64-pc-linux-gnu, compiled by gcc (GCC) 4.8.5 20150623 (Red Hat 4.8.5-44), 64-bit (1 row)				

Once your upgrade is successful, you can delete your old cluster using the script.delete_old_cluster.sh

./delete_old_cluster.sh

- PG_UPGRADE (HTTPS://DBACLASS.COM/ARTICLE-TAG/PG_UPGRADE/)

 POSTGRS (HTTPS://DBACLASS.COM/ARTICLE-TAG/POSTGRS/) PSQ (HTTPS://DBACLASS.COM/ARTICLE-TAG/PSQ/)

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2 thoughts on "How to upgrade postgres to new version"



Argo

8
v,

Admin

JANUARY 14, 2023 AT 6:32 AM (HTTPS://DBACLASS.COM/ARTICLE/HOW-TO-UPGRADE-POSTGRES-TO-NEW-VERSION/#COMMENT-179537)

I will try to do a poc on windows and share the steps.

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