

Installing PostgreSQL on Windows Server 2003

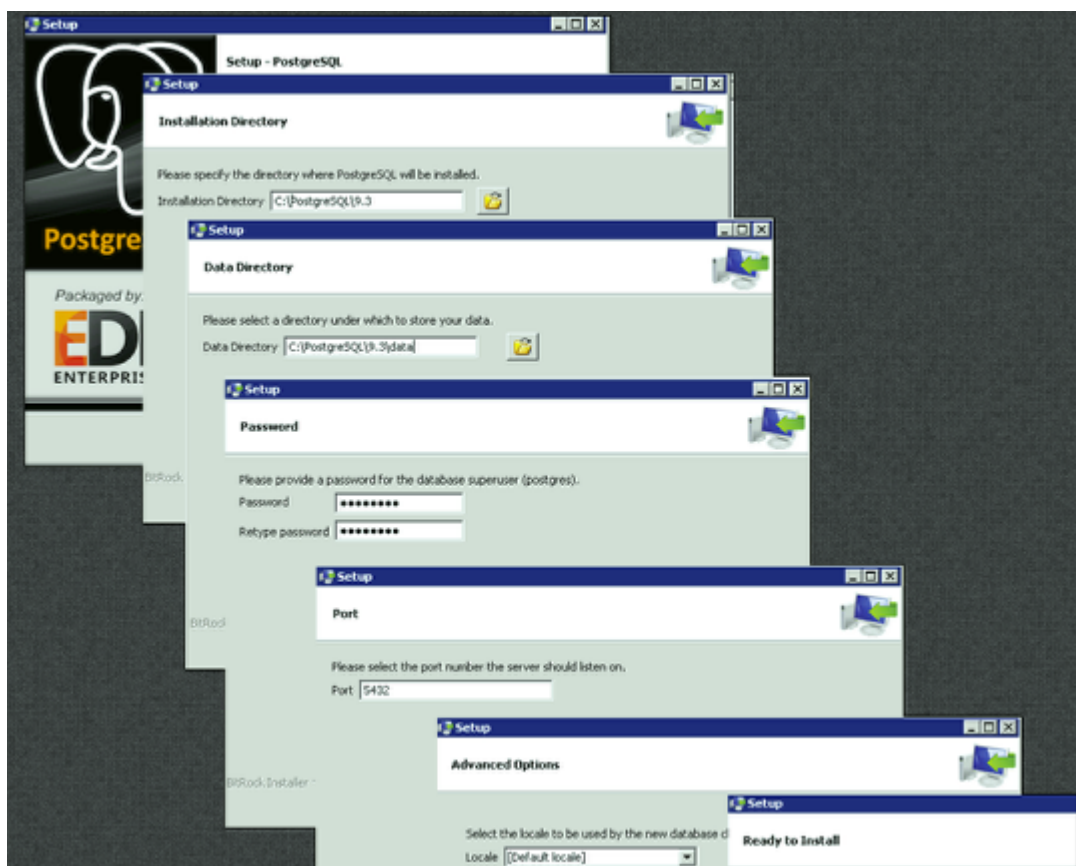
This Article covers installation of PostgreSQL Version 9.3 32-bit on Windows Server 2003 32-bit OS

Preflight

Item	Description OS Platform	Windows Server 2003 R2 32-bit PostgreSQL Version	9.3 32-bit PostgreSQL Service Account	Username :postgres Password: postgres Installation Directory	C:\PostgreSQL\9.3 Data Directory	C:\PostgreSQL\9.3\data
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@!:{This article presents the steps from the command line (cmd) perspective.

Launch PostgreSQL Installation



Installer Filename: postgresql-9.3.5-1-windows.exe

Launch the installer

Next • Data Directory: C:\PostgreSQL\9.3\data • Password: postgres • Port: 5432 • Locale: Default locale • Next ...

Create The PostgreSQL Service User & Initialize Database Instance

```
C:\Documents and Settings\Administrator>net user postgres /add
The command completed successfully.

C:\Documents and Settings\Administrator>net user postgres postgres
The command completed successfully.

C:\PostgreSQL\9.3\bin>pg_ctl register -N postgres -U postgres -P postgres -D "C:/PostgreSQL/9.3/data"

C:\PostgreSQL\9.3\bin>cacls c:\PostgreSQL\9.3\data /e /g postgres:F
processed dir: c:\PostgreSQL\9.3\data

C:\PostgreSQL\9.3\bin>runas /user:postgres cmd
Enter the password for postgres:
Attempting to start cmd as user "Administrator\postgres" ...

C:\PostgreSQL\9.3\bin>initdb -U postgres -A password -E utf8 -W -D "C:/PostgreSQL/9.3/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 "English_United States.1252".
The default text search configuration will be set to "english".

Data page checksums are disabled.

fixing permissions on existing directory ... ok
creating subdirectories ... ok
selecting default max_connections ... ok
selecting default max_connections ... ok
selecting default shared_buffers ... ok
creating configuration files ... ok
loading system objects' descriptions ... ok
creating template1 database in C:/PostgreSQL/9.3/data ... ok
initializing pg_authid ... ok
creating conversions ... ok
creating dictionaries ... ok
setting privileges on built-in objects ... ok
creating information schema ... ok
loading PL/pgSQL server-side language ... ok
vacuuming database template1 ... ok
copying template1 to template0 ... ok
copying template1 to postgres ... ok
syncing data to disk ... ok

Success. You can now start the database server using:
    "postgres" -D "C:/PostgreSQL/9.3/data"
or
    "pg_ctl" -D "C:/PostgreSQL/9.3/data" -l logfile start
```

Create the PostgreSQL User Account

```
[shell]net user postgres /add[/shell]
```

Set the password for the User Account to 'postgres'

```
[shell]net user postgres postgres[/shell]
```

Register the PostgreSQL Windows Service and set logon as the postgres user

```
[shell]pg_ctl register -N postgres -U postgres -P postgres -D "C:/PostgreSQL/9.3/data"[/shell]
```

Set appropriate permissions on the PostgreSQL data directory

```
[shell]cacls c:\PostgreSQL\9.3\data /e /g postgres:F[/shell]
```

Initialize the database instance, specifying the data directory from above

```
[shell]initdb -U postgres -A password -E utf8 -W -D  
"C:/PostgreSQL/9.3/data"[/shell]
```

Start the PostgreSQL Service

```
[shell]net start postgres[/shell]
```

This covers the installation and default configuration of PostgreSQL on Windows Server 2003 R2

Post-Installation Notes

Ensure the postgresQL bin folder is in Path environmental variable

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Appendix

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Troubleshooting

Troubleshooting Scenarios

Error	Possible Cause	<p>Possible Solution When you attempt starting the PostgreSQL service, you encounter an error similar to: "The postgres service on Local Computer started and then stopped. Some services stop automatically if they have no work to do, for example, the Performance Logs and Alerts service."</p>	<p>The PostgreSQL Database Instance has not been initialized</p>	<p>Initialize the database instance then try starting the service again. Additionally, you can verify that the PostgreSQL service account has adequate permissions on the data directory. When you try executing any arbitrary PostgreSQL queries, you encounter an error similar to: "Execution of PostgreSQL by a user with administrative permissions is not permitted. The server must be started under an unprivileged user ID to prevent possible system security compromises. See the documentation for more information on how to properly start the server."</p>	<p>You registered the PostgreSQL service with an administrative user</p>	<p>De-register service [shell]pg_ctl.exe unregister -N postgres [/shell] Register service as a non-administrative user account (e.g. postgres) [shell]pg_ctl register -N postgres -U postgres -P postgres -D "C:/PostgreSQL/9.3/data" [/shell] You try to initialize the database instance but encounter an error similar to: "initdb: directory "C:/PostgreSQL/9.3/data" exists but is not empty. If you want to create a new database system, either remove or empty the directory "C:/PostgreSQL/9.3/data" or run initdb with an argument other than "C:/PostgreSQL/9.3/data".</p>	<p>You are trying to initialize the database instance, but the data directory is not empty</p>	<p>Delete the contents of the data directory and retry initializing the database instance. Upon initializing the database instance, you encounter errors related to permissions, similar to: fixing permissions on existing directory C:/PostgreSQL/9.3/data .. initdb: could not change permissions of directory "C:/PostgreSQL/9.3/data": Permission denied</p>	<p>The PostgreSQL service account does not have adequate permissions on the data directory</p>	<p>Grant full permissions on the data directory to the PostgreSQL service account, e.g.: [shell]cacls c:/PostgreSQL/9.3/data /e /g postgres:F[/shell]</p>
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