exterro®
Data Risk Management



FTK POSTGRESQL 18.6 UPGRADE GUIDE

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About Exterro

Exterro was founded with the simple vision that applying the concepts of process optimization and data science to how companies manage digital information and respond to litigation would drive more successful outcomes at a lower cost. We remain committed to this vision today. We deliver a fully integrated Data Risk Management platform that enables our clients to address their privacy, regulatory, compliance, digital forensics, and litigation risks more effectively and at lower costs. We provide software solutions that help some of the world's largest organizations, law enforcement and government agencies work smarter, more efficiently, and support the Rule of Law.

Purpose of the Document

This document provides a step-by-step guide for upgrading PostgreSQL to version **18.6**. The instructions cover downloading, installing, and configuring the upgrade process, along with troubleshooting steps for common issues that may occur during installation.

Note: *This upgrade is* ***optional****. It is intended for users who wish to upgrade in order to address known vulnerabilities in PostgreSQL version* **18.4***.*

Upgrading to PostgreSQL **18.6** also allows your system to benefit from the latest security patches, bug fixes, and performance improvements.

Prerequisites

- **Backup**: Before starting any upgrade process, it is essential to back up all your PostgreSQL databases to avoid data loss in case of failure during the upgrade.
- **Administrator Privileges**: Ensure you have Administrator privileges on the machine for the installation and upgrade processes.
- **System Requirements**: Ensure your system meets the minimum hardware and software requirements for PostgreSQL **18.6**.

- Ensure that the version of FTK is **8.3** with PostgreSQL version later than **14.23**.

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Site Server PostgreSQL 18.6 Upgrade

a) **Upgrading on an Existing Site Server:**

- If your Site Server already has an older version of PostgreSQL installed, upgrade PostgreSQL to version 18.6. There is no need to uninstall or reinstall the Site Server itself.

b) **Installing on a New Machine with PostgreSQL 18.6 Pre-installed:**

- If you are installing the Site Server on a new machine that already has PostgreSQL 18.6 installed, you can install the Site Server directly.

c) **Fresh Site Server Installation:**

- Ensure PostgreSQL is installed, and you can install/upgrade the Site Server directly.

AI server PostgreSQL 18.6 Upgrade

a) **Upgrading on an Existing AI server:**

- If your AI Server already has an older version of PostgreSQL installed, upgrade PostgreSQL to version 18.6. There is no need to uninstall or reinstall the AI Server itself. Make sure to restart “AI server” service in service.msc.

b) **Installing on a New Machine with PostgreSQL 18.6 Pre-installed:**

- If you are installing the AI server on a new machine that already has PostgreSQL 18.6 installed, you can install the AI server directly.

c) **Fresh AI Server Installation:**

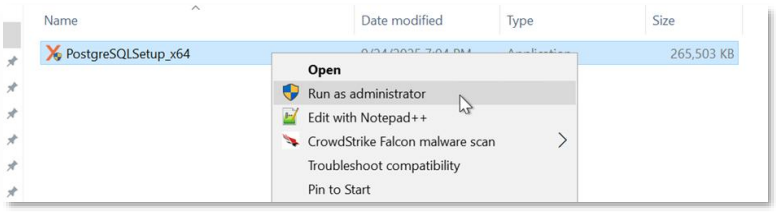
- Ensure PostgreSQL 18.6 is installed first before proceeding with AI server installation.
  Refer to the AI Server Installation Guide to install the AI Server directly.

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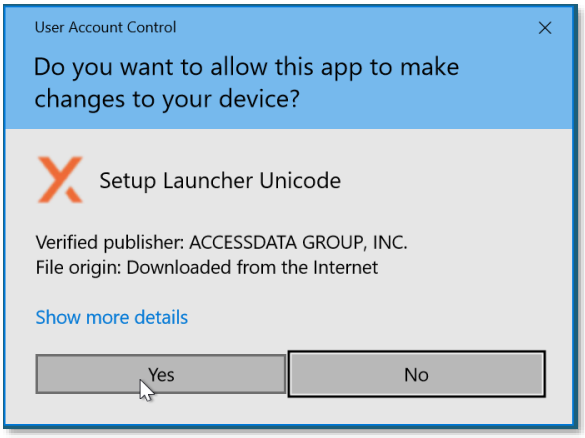
PostgreSQL 18.6 Upgrade Steps

To upgrade to PostgreSQL version 18.6, follow the steps below:

1. Download and extract the latest **PostgreSQL 18.6 installer file**.
2. Right-click on the **.exe file**, and select **Run as Administrator**.

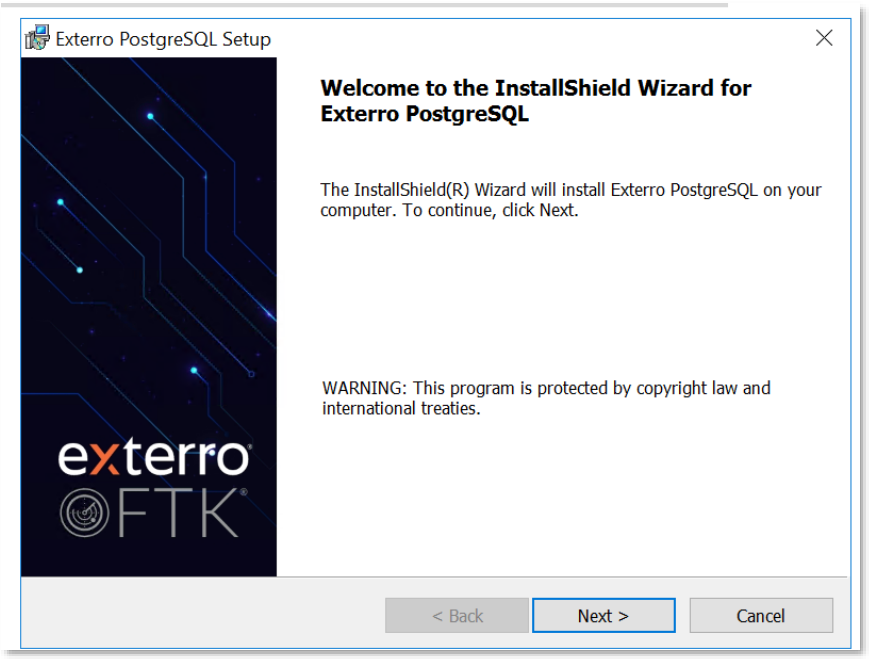


3. When prompted by User Account Control, click **Yes** to allow the installer to make changes to your device.



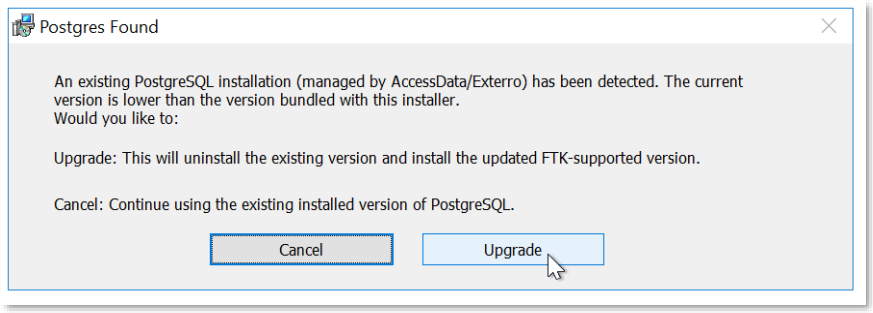
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- The following page will be displayed.



4. Click **Next**.

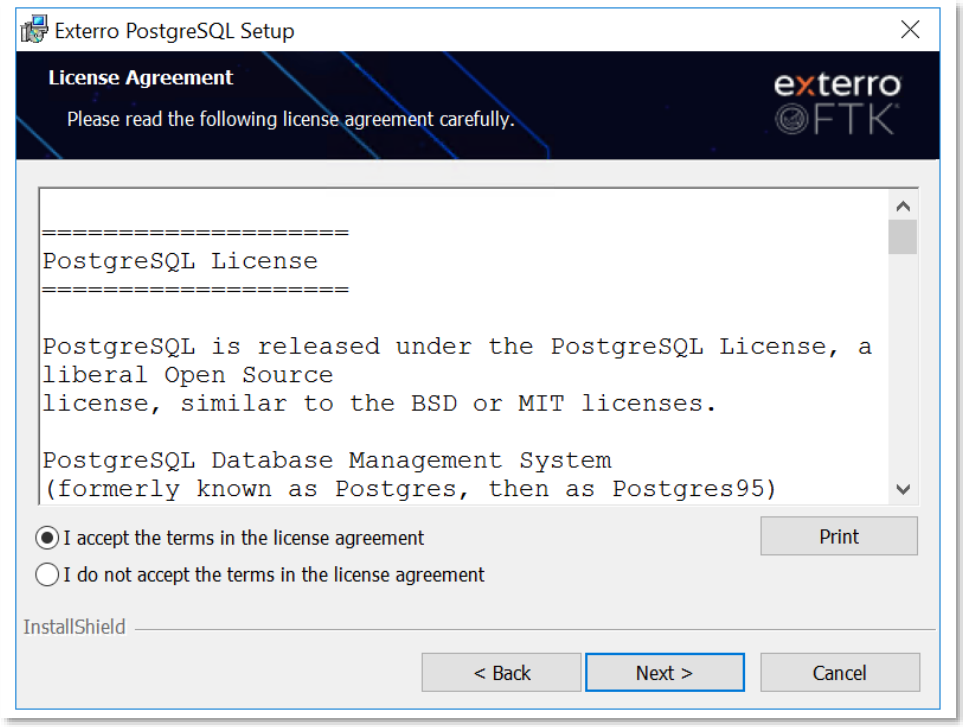
- The following pop-up will be displayed with the option to upgrade.



5. Click **Upgrade**.

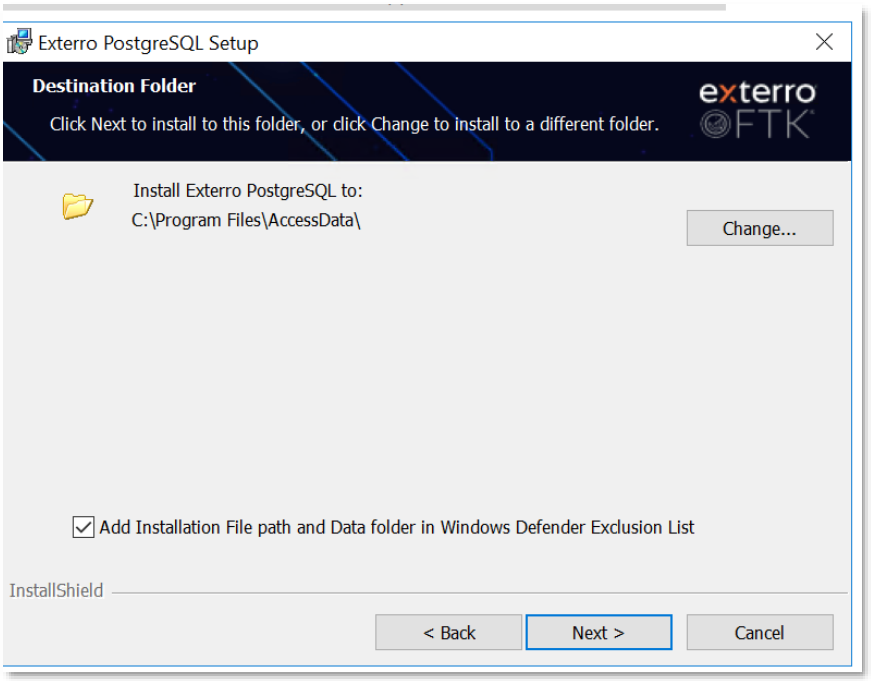
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- The **License Agreement** page will be displayed.



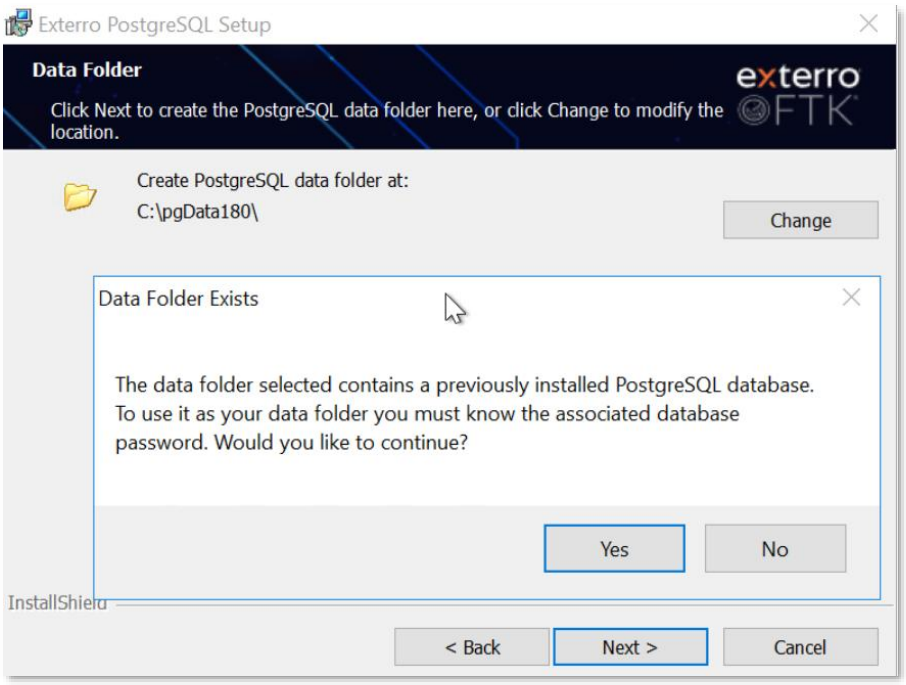
6. Read the license agreement and select the checkbox - **I accept the terms in the License Agreement**, and click **Next**.

- The following page will allow you to select or modify the installation directory.



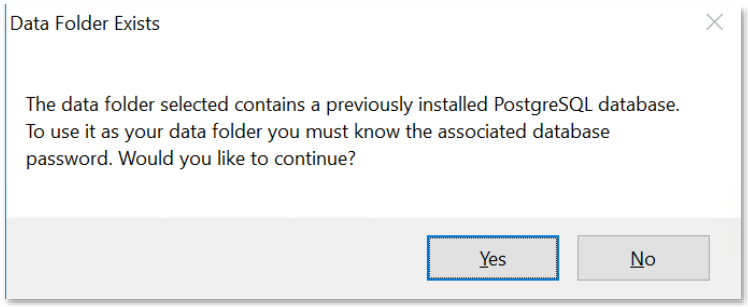
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7. You can leave the default installation directory as is or modify it based on your needs.
8. Enable the checkbox for **Add installation file path to Windows Defender exclusion list** to ensure that Windows Security excludes PostgreSQL files from its scans.
9. Click **Next**.
    - The following page will allow you to select the data directory.



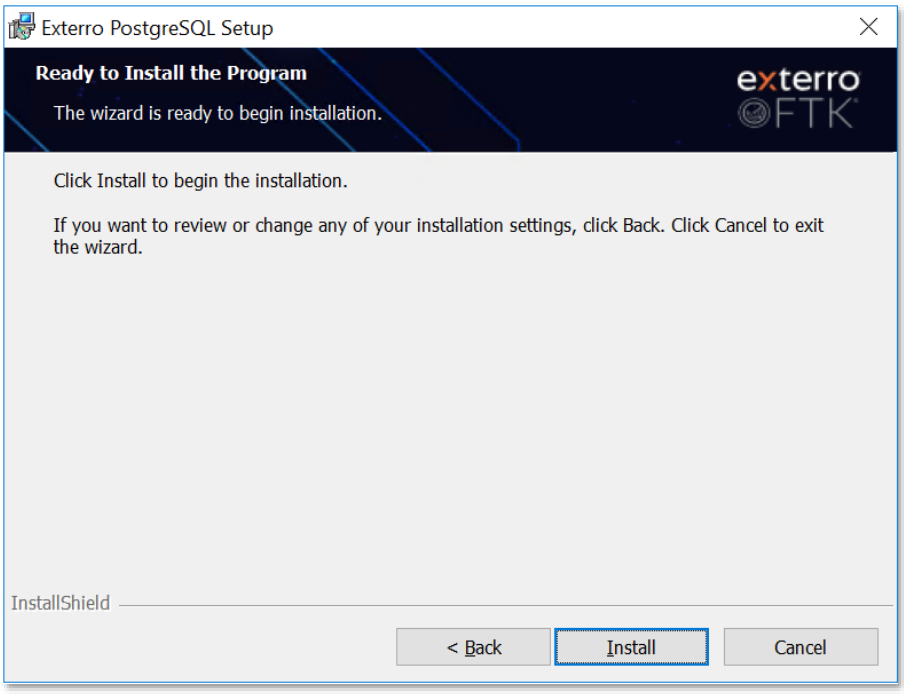
10. Click **Yes**.
11. Choose the **Data Directory**:
    a) If you are performing a **fresh installation**, select a new data directory.
    b) For an **upgrade**, select the existing PostgreSQL data directory to retain your databases.
12. Click **Next**.

    ***Note**: If prompted with a confirmation dialog during the upgrade, click **Yes** to confirm.*

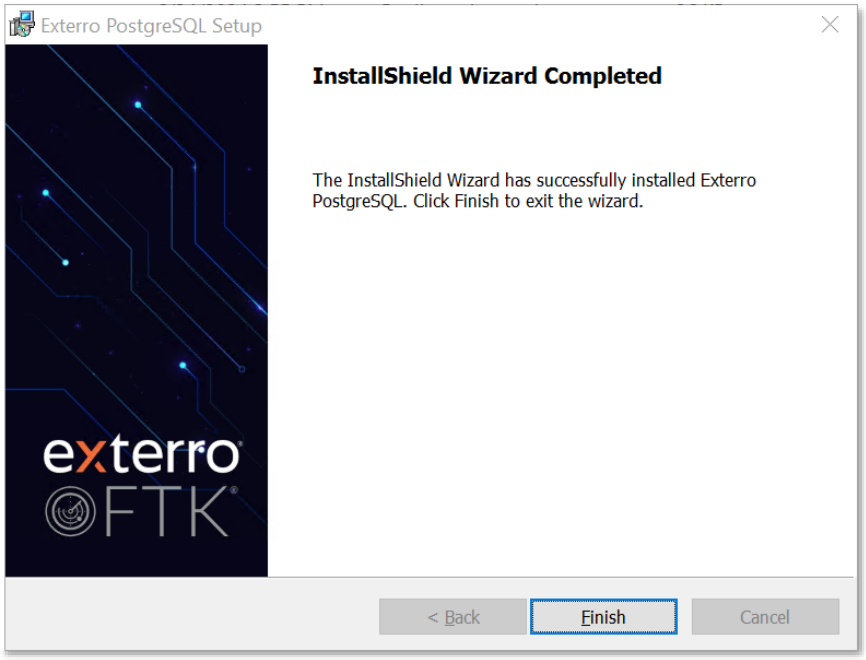


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- The following Installation page will be displayed.



13. Click **Install** to start the upgrade process. The installer will now begin upgrading PostgreSQL to version 18.6.
14. Click **Yes** when prompted for a reboot.
    - Once the installation is complete, you will be prompted with a final screen.



15. Click **Finish** to complete the installation and reboot the server.

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Post-Upgrade Tasks

After upgrading PostgreSQL to version 18.6, there are a few additional steps to ensure the system works properly:

a) Verify PostgreSQL Version:

i. Open a command prompt or terminal window as an adimistrator.

ii. Execute the below command:

```
cd <the bin folder of PosgreSQL installed folder>
```

iii. Run the following command to confirm the version:

```
psql --version
```

- You should see psql (PostgreSQL) 18.6 displayed.

b) Check Database Integrity:

i. Execute the command below to connect to the database:

```
psql -U postgres -p 5432 -h server_hostname
```

ii. Perform basic database checks to ensure your data is intact:

```
SELECT * FROM pg_stat_activity;
```

c) Checking the list of databases:

i. Run the command below to view the list of databases:

```
REINDEX DATABASE \l
```

d) Post-Upgrade Maintenance:

i. Run the REINDEX command if necessary, especially if you are upgrading from an older version.

```
REINDEX DATABASE your_database_name
```

e) Review Logs:

i. Review PostgreSQL logs for any errors or warnings that may require attention. The logs can typically be found in the PostgreSQL installation directory or in the directory specified during the installation process.

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Troubleshooting

Common Issues:

- Installation Fails:
  - Ensure you are running the installer as an administrator.
  - Check for any antivirus or firewall settings that may block the installer.
- Data Directory Issue:
  - If the upgrade does not correctly recognize your existing data directory, ensure that you have selected the correct path to the previous PostgreSQL data directory.
- Post-Upgrade Errors:
  - After upgrading, you may experience compatibility issues with certain extensions or database features. Contact the Exterro Team for more information.

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Contact Exterro

If you have any questions, please refer to this document, or any other related materials provided to you by Exterro. For usage questions, please check with your organization's internal application administrator. Alternatively, you may contact your Exterro Training Manager or other Exterro account contact directly.

For technical difficulties, support is available through support@exterro.com.

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