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0 EDB Postgres Slony Guide

Slony Replication is a primary-standby replication environment that is well-suited for large databases with a limited number of standby systems. It shares data in one direction only (from a primary node to a standby node), is cascading (a standby node may pass data to another standby node), and does not allow modification of data on standby nodes.

This guide acts provides information about installing and uninstalling Slony Replication. For detailed information about reference and usage, please visit the [project site](#).

1.0 Installation

This section walks you through installing Slony Replication on a RHEL/CentOS host, a Debian/Ubuntu host, and a Windows host.

The following table lists the Advanced Server versions and platforms supported by Slony Replication.

Version	Advanced Server Versions	Supported Platforms
Slony Replication 2.2.8	Advanced Server 11 and 12	

1.1 Installing Slony Replication on a RHEL/CentOS Host

If you have used an RPM package to install Advanced Server on the host on which you will be installing Slony Replication, you have probably already created the EnterpriseDB repository configuration file and have EnterpriseDB credentials. If that is the case, you can install Slony Replication with the following command:

On RHEL/CentOS 6 and 7:

```
yum -y install edb-as12-slony-replication
```

On RHEL/CentOS 8:

```
dnf -y install edb-as12-slony-replication
```

If you have not previously created the repository configuration file, follow the steps given below to create the file and to install Slony Replication.

Before creating the repository configuration file, you must have credentials that allow access to the EnterpriseDB repository. For information about requesting credentials, [visit the EnterpriseDB website](#).

1. To create the repository configuration file, assume superuser privileges, and invoke one of the following platform-specific commands:

On RHEL/CentOS 6 and 7:

```
yum -y install https://yum.enterprisedb.com/edb-repo-rpms/edb-repo-latest.noarch.rpm
```

On RHEL/CentOS 8:

```
dnf -y install https://yum.enterprisedb.com/edb-repo-rpms/edb-repo-latest.noarch.rpm
```

The repository configuration file is named `edb.repo` ; the file resides in `/etc/yum.repos.d` .

2. After creating the `edb.repo` file, use your choice of editor to open this file. Ensure the `enabled` parameter value is `1` , and replace the `username` and `password` placeholders in the `baseurl` specification with the credentials of a registered EnterpriseDB user.

```
[edb]
name=EnterpriseDB RPMs $releasever - $basearch
baseurl=https://<username>:<password>@yum.enterprisedb.com/edb/redhat/rhel-$releasever-$basearch
enabled=1
gpgcheck=1
gpgkey=file:///etc/pki/rpm-gpg/ENTERPRISEDB-GPG-KEY
```

3. Save your changes to the configuration file and exit the editor.

4. Execute the following commands to update the metadata:

```
yum clean all
```

```
yum makecache
```

5. On RHEL/CentOS 8, you need to enable the `PowerTools` repo with the following command:

```
dnf config-manager --set-enabled PowerTools
```

6. Before installing Slony Replication, you must install the Extra Packages for Enterprise Linux (EPEL) release package by executing the following command:

On RHEL/CentOS 6 and 7:

```
yum -y install epel-release
```

On RHEL/CentOS 8:

```
dnf -y install epel-release
```

Note

You may need to enable the `[extras]` repository definition in the `CentOS-Base.repo` file (located in `/etc/yum.repos.d`).

7. Then, use one of the following platform-specific command to install Slony Replication.

On RHEL/CentOS 6 and 7:

```
yum -y install edb-as12-slony-replication
```

On a RHEL/CentOS 8:

```
dnf -y install edb-as12-slony-replication
```

The following table lists the path of the service, installation, and configuration files.

Platform	Service File Path	Installation File Path
RHEL/CentOS 6	<code>/etc/init.d/edb-slony-replication-12</code>	<code>/usr/edb/as12</code>
RHEL/CentOS 7 and 8	<code>/usr/lib/systemd/system/edb-slony-replication-12.service</code>	<code>/usr/edb/as12</code>

1.2 Installing Slony Replication on a Debian or Ubuntu Host

You must install Advanced Server before installing Slony Replication. For details about installing and configuring Advanced Server, see [the EDB Postgres Advanced Server Installation Guide](#). To install a package on a Debian

or Ubuntu host, you must have credentials to access the EnterpriseDB repository. If you need EnterpriseDB credentials, [visit the EnterpriseDB website](#).

The following steps will walk you through using the EnterpriseDB repository to install a DEB package. When using the commands, replace the `username` and `password` with the credentials provided by EnterpriseDB.

Please note that if you are using the pdf version of this document, using cut/paste to copy command may result in extra spaces or carriage returns in the pasted command. If a command fails, check the command carefully for additional characters.

1. Assume superuser privileges:

```
sudo su -
```

2. Configure the EnterpriseDB repository:

```
sh -c 'echo "deb https://<username>:<password>@apt.enterprisedb.com/$(lsb_release -cs)-edb $(lsb_release -cs) main" > /etc/apt/sources.list.d/edb-$(lsb_release -cs).list'
```

3. Add support to your system for secure APT repositories:

```
apt-get install apt-transport-https
```

4. Add the EDB signing key:

```
wget -q -O - https://<username>:<password>@apt.enterprisedb.com/edb-deb.gpg.key | apt-key add -
```

5. Update the repository metadata:

```
apt-get update
```

6. Install DEB package:

```
apt-get install edb-as12-slony-replication
```

The following table lists the path of the service, installation, and configuration path.

Service File Path	Installation File Path	Configuration File
/lib/systemd/system/edb-as12-slony-replication.service	/usr/lib/edb-as/12	The configuration file

1.3 Installing Slony Replication on a Windows Host

Graphical installers for Slony Replication are available via StackBuilder Plus (for Advanced Server hosts) or Stack Builder (on PostgreSQL hosts). You can access StackBuilder Plus through your Windows start menu.

Perform the following steps to install Slony Replication:

1. Open StackBuilder Plus and select your Advanced Server installation from the drop-down list on the `Welcome` window. Click `Next` to continue to the application selection page.

The StackBuilder Plus Welcome window

2. Expand the `Replication Solutions` node, and check the box next to the Slony Replication version. Click `Next` to continue.

The Slony Selection window

3. The selected packages and the default download directory are displayed. Change the download directory location if required. Click `Next`.

The Slony Selected Packages Window

4. Once you have downloaded the installation files, a confirmation message is displayed. Click `Next` to start the Slony Replication installation.

Installing Slony png

5. Select an installation language and click `OK` .

The Slony language selection window

6. The installer welcomes you to the setup wizard. Click `Next` .

The Slony Welcome window

7. Use the `Installation Directory` field to specify the directory in which you wish to install Slony Replication (the default installation directory is `C:\Program Files\edb\as12`) Then, click `Next` to continue.

The Installation Directory window

8. The `Ready to Install` window notifies you when the installer has all of the information needed to install Slony Replication on your system. Click `Next` to install Slony Replication. Progress bars inform you as the installation progresses.

The Ready to Install window

9. The installer notifies you when the setup wizard has completed the installation. Click `Finish` to exit the installer.

The installation is complete

10. Click `Finish` to exit the StackBuilder Plus.

Exit StackBuilder Plus

2 Configuring Slony Replication

On a CentOS and Debian host, the configuration file (`slony-replication.ini`) is located in `/etc/edb/slony-replication12/` ; use the configuration file to specify connection information for the master and standby nodes.

On a Windows host, the configuration files are named `master.conf.sample` and `slave.conf.sample` , and are located in the `/etc` directory, under the Advanced Server installation; before configuring Slony Replication, you must rename the configuration files to `master.conf` and `slave.conf` .

For information about configuring a Slony Replication environment, please refer to the [Slony official project documentation](#).

After specifying configuration options, you must start the Slony Replication service on all nodes of the replication environment. For detailed information about controlling a service, see [EDB Postgres Advanced Server Installation Guide](#).

After installing, configuring and starting the Slony Replication, on a Linux system, you must manually configure your system to autostart the service when your system reboots.

To configure a service to autostart on a Linux system, open a command line, assume superuser privileges, and enter the following command.

On a Redhat-compatible Linux system:

```
/sbin/chkconfig service_name on
```

Where `service_name` specifies the name of the service.

On a Debian-compatible Linux system, use the command:

```
/usr/sbin/update-rc.d service_name enable
```

Where `service_name` specifies the name of the service.

Please note that if you are using a Windows system, the Slony Replication service will be configured to autostart by default. On Windows, you can use the `Service Properties` dialog to control the service startup type.

3 Uninstalling Slony

This section walks you through uninstalling Slony Replication.

Uninstalling Slony Replication on a RHEL/CentOS Host

To uninstall Slony Replication on a RHEL/CentOS host, assume identity of the root user and invoke the following command:

On RHEL/CentOS 6 and 7:

```
yum remove edb-as12-slony-replication*
```

On RHEL/CentOS 8:

```
dnf remove edb-as12-slony-replication*
```

Uninstalling Slony Replication on a Debian or Ubuntu Host

To uninstall Slony Replication on a Debian or Ubuntu host, invoke the following command:

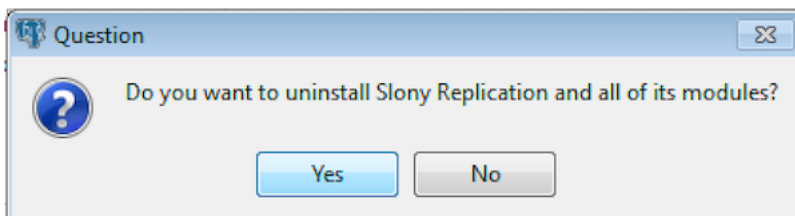
```
apt-get remove edb-as12-slony-replication*
```

Uninstalling Slony Replication on a Windows Host

The Slony Replication graphical installer creates an uninstaller named `uninstall-edb-as12-slony-replication` in the installation directory (the default location is `C:\Program Files\edb\as12`).

To uninstall Slony Replication on a Windows Host:

1. Navigate into the directory that contains the uninstaller and assume superuser privileges. Open the uninstaller `uninstall-edb-as12-slony-replication` and click `Yes` to begin uninstalling Slony Replication:



2. The uninstallation process begins. Click `OK` once the process completes.

