

Special Instructions for Upgrade from Control Center Versions Prior to 2.29

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RELEASE
3.0.0

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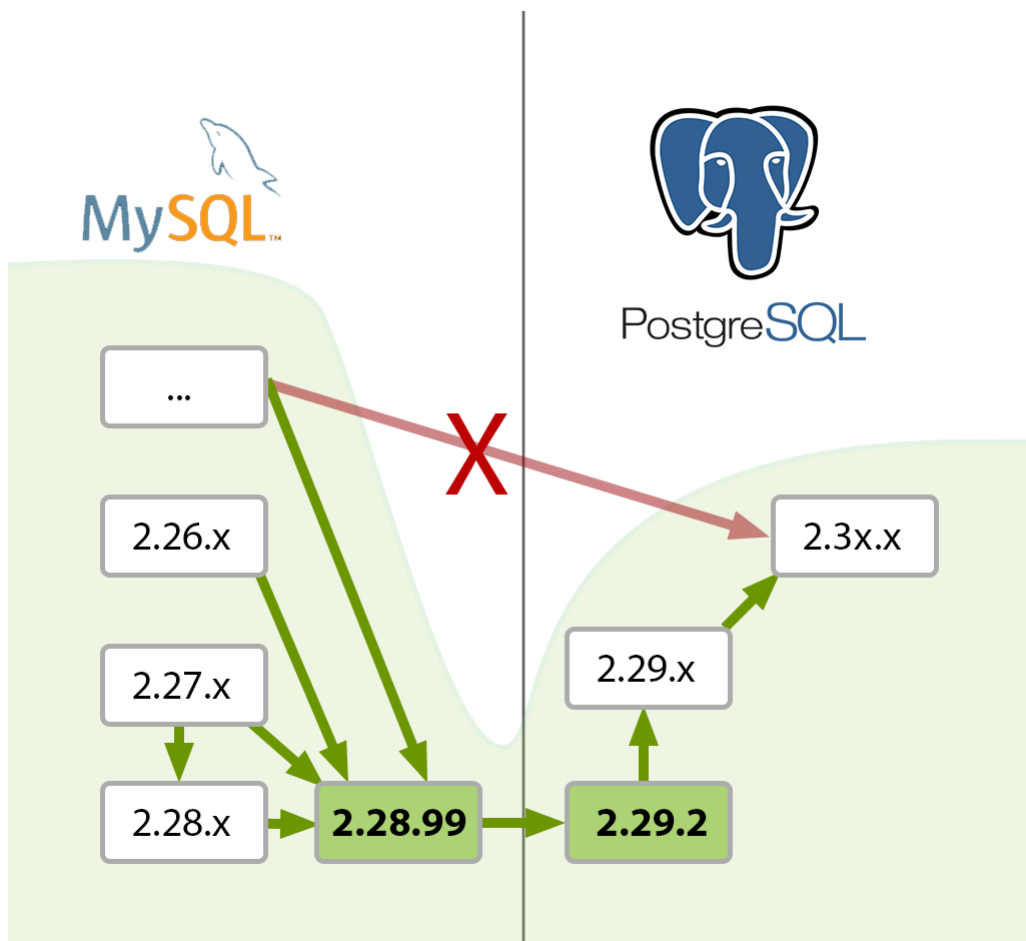
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Introduction

This document concerns upgrading of Paragon Active Assurance Control Center from versions **older than 2.29**. For other upgrades, please refer to the Lifecycle Management Guide.

The **2.29.2** version of Control Center requires special upgrade procedures since the database has been changed from MySQL to PostgreSQL.

To make sure everything goes well during the upgrade, only a single upgrade path that involves the database switch is allowed. In the image below you can see that the only allowed path from the MySQL side to PostgreSQL is between **2.28.99** and **2.29.2**.



NOTE: The green arrows show some but not all of the possible upgrade paths.

Prerequisites

Before you start you will need the following installation files:

```
netrounds-control-center_2.28.99.tar.gz  
netrounds-control-center_2.29.2.tar.gz
```

The 2.28.99 release is not meant to be used for anything other than the upgrade procedure. Therefore, do not attempt to run Control Center until you are done with the full procedure.

The versions before 2.29.0 used MySQL as the database, whereas 2.29.0 and later versions use PostgreSQL. This change requires some extra steps in the upgrade procedure which are required only for this release.

Upgrading to 2.29.2 from Older Versions

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NOTE: Please make a note of the current version of Control Center that is being used before starting this procedure. This will help support if you run into any issues.

You can see the version by running the following command:

```
dpkg -l | grep netrounds
```

NOTE: The instructions below constitute a sensitive procedure, and care should be taken when executing it on a remote machine. In such a scenario it is strongly recommended that you use a program like `screen` or `tmux` so that the migrate command will continue running even if the ssh session breaks.

NOTE: Also be aware that this procedure assumes that a local MySQL database instance is used. If you have a custom setup, please modify the instructions below accordingly.

Turn Off Services

- Disable the `apache2` service completely:

```
sudo systemctl disable apache2
```

- Stop all Paragon Active Assurance services:

```
sudo systemctl stop "netrounds-*" apache2 openvpn@netrounds
```

Back Up the MySQL Database

It is highly recommended that you make a backup copy of your MySQL database before continuing.

```
# Create a backup of the database
mysqldump -u netrounds -p netrounds > mysql_dump.sql
```

NOTE: If something goes wrong during the upgrade procedure, you can use this to restore the previous state of the system.

Unpack the 2.28.99 Release and Install the Debian Packages

Get the **.sha256.sum** file from the Portal: `netrounds-control-center_2.28.99.sha256.sum`

Then run the following command and verify that the response is "OK":

```
shasum -c netrounds-control-center_2.28.99.sha256.sum
```

Now we can unpack and install:

```
# Unpack the Debian files
tar -xzf netrounds-control-center_2.28.99.tar.gz

# Install Netrounds packages
sudo apt-get update
sudo apt-get install ./netrounds-control-center_2.28.99/*.deb
```

Run the Database Migrations from 2.2x.x to 2.28.99

```
# Run the migrations
ncc migrate
```

NOTE: The `ncc migrate` command takes considerable time to execute (many minutes). It should print the following:

```
Migrating database...
Operations to perform:
<...>
```

Synchronizing apps without migrations:

<...>

Running migrations:

<...>

Creating cache table...

<...>

Syncing test scripts...

<Updating script ...>

NOTE: After completing the migrations, you are *not* yet done with the upgrade! The above is only a preparatory step.

Install PostgreSQL

Run the following command:

```
sudo apt-get install postgresql
```

Unpack and Install the 2.29.2 Release Debian Packages

Verify that the installation package is valid:

```
shasum -c netrounds-control-center_2.29.2.sha256.sum
```

Then go ahead with the installation:

```
# Unpack the Debian files
tar -xzf netrounds-control-center_2.29.2.tar.gz

# Install Netrounds packages
```

```
sudo apt-get update
sudo apt-get install ./netrounds-control-center_2.29.2/*.deb
```

Perform Move from MySQL to PostgreSQL

The 2.29.2 release contains a helper script to perform the database migration.

NOTE: This performs the upgrade using an interactive script that prompts you at each step.

```
./netrounds-control-center_2.29.2/2.29_upgrade_script.sh
```

Install the New Test Agent Repository

```
export TA_APP_VERSION=2.29.2.13 # Please make sure this matches the file name
export TA_LITE_VERSION=0.9.3

# Unpack tar file
tar -xzf ./netrounds-test-agent_${TA_APP_VERSION}+${TA_LITE_VERSION}_all.tar.gz

# Install
sudo apt-get install \
    ./netrounds-test-agent_${TA_APP_VERSION}+${TA_LITE_VERSION}.deb
```

Restart Services

- Enable the apache2 service:

```
sudo systemctl enable apache2
```

- Start all Paragon Active Assurance services.

NOTE: You must do this to get the services up and running again after the upgrade:

```
sudo systemctl start --all "netrounds-*" apache2 openvpn@netrounds
```

You should now be able to use Control Center.

Troubleshooting

If the upgrade fails, file a ticket at <https://support.juniper.net/support/requesting-support>. Please provide as much information as possible on the command history and output from the commands that were run.

To revert to the old version until the issue can be solved:

- Install the previous release you were running.
- Follow the instructions in the Lifecycle Management Guide to restore the MySQL database to its previous state using the dump file you created.

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