

# Paragon Active Assurance Upgrade Guide

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RELEASE  
3.0.0

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# Special Upgrade Procedures

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## Special Procedure for Upgrade to 3.0

On upgrading to version 3.0 you need a new license from Juniper Networks to be able to use the product. Juniper Networks will provide you with such a license, which you then activate with the usual `ncc license activate` command.

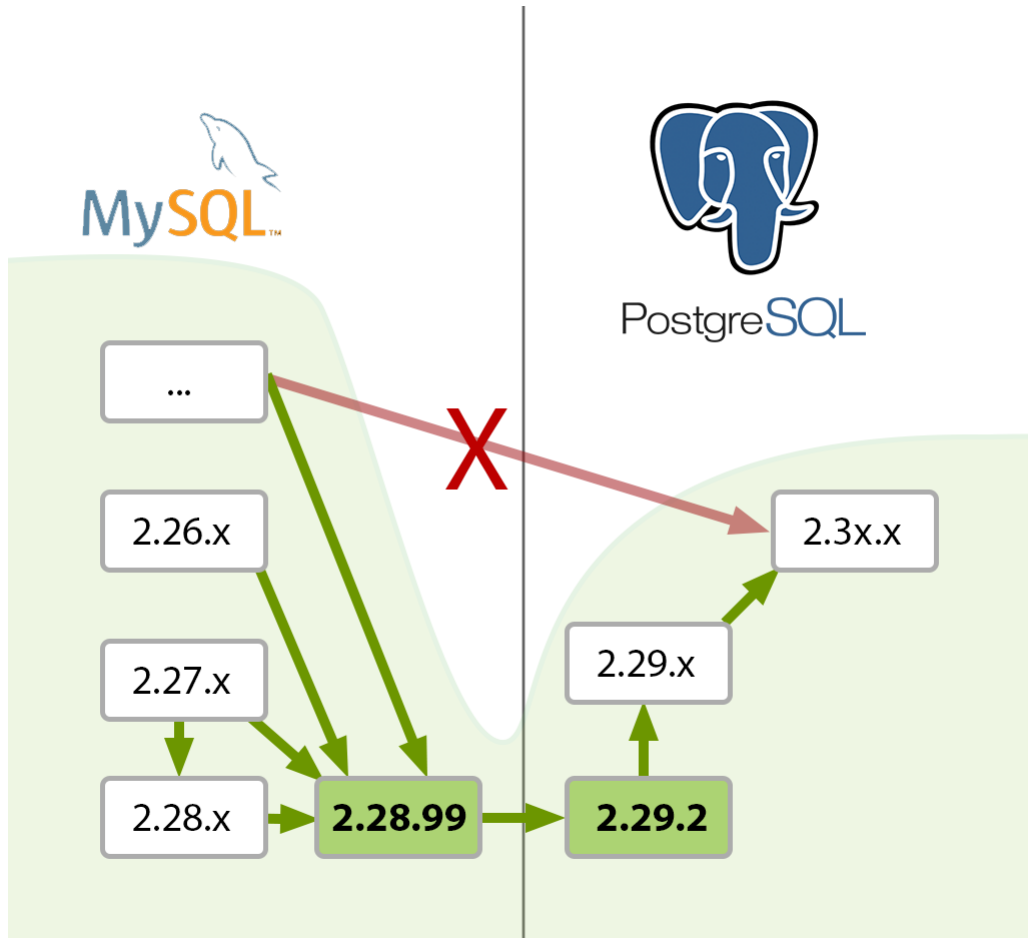
## Special Procedure for Upgrade from 2.34

The upgrade from 2.34 to a later version involves an Ubuntu upgrade from version 16.04 to version 18.04. It is covered in the document *Upgrading Netrounds Control Center from Version 2.34*.

## Special Procedure for Upgrade 2.2x → 2.29+

The 2.29.2 version of Control Center requires special upgrade procedures since the database was changed in that version from MySQL to PostgreSQL. It is covered in the document *Special Instructions for Upgrade from Control Center Versions Prior to 2.29*.

To make sure everything goes well during the upgrade, only a single upgrade path that involves the database switch is allowed. As shown in the image below, the only allowed path from the MySQL side to PostgreSQL is from 2.28.99 to 2.29.2.



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

## Finding Out Your Paragon Active Assurance Software Version

To find out what version of Paragon Active Assurance you currently have installed, you can use this command:

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

# Upgrade Procedure



**WARNING:** If you are upgrading from any version before 2.29, please make sure you use the special upgrade procedure described in the document [Special Instructions for Upgrade from Control Center Versions Prior to 2.29](#).



**WARNING:** If you are upgrading from 2.34, please make sure you use the special upgrade procedure described in the document [Upgrading Netrounds Control Center from Version 2.34](#).

Below are general instructions for upgrading Control Center. Note that for specific releases, additional actions may be required; separate instructions are then given in each case in what follows.

Be sure to refer to the current Paragon Active Assurance [Installation Guide](#).

- **Disable** the `apache2` and `netrounds-callexecuter` services completely:

```
sudo systemctl disable apache2
sudo systemctl disable netrounds-callexecuter
```

- **Stop** all Paragon Active Assurance services:

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

- **Make backups** according to the Lifecycle Management Guide, chapter [Backing Up Product Data](#), starting with the section "Backing Up the PostgreSQL Database".
- **Verify the integrity** of the tarball containing the new Control Center version:

```
# Compute the checksum for the tar file and verify that it is equal to the SHA256
# checksum provided on the download page
sha256sum paa-control-center_${CC_VERSION}.tar.gz
```

- **Unpack the Control Center tarball:**

```
export CC_VERSION=<enter version number here>
tar -xzf paa-control-center_${CC_VERSION}.tar.gz
```

- **Install new Control Center packages:**

```
sudo apt-get update
sudo apt-get install ./paa-control-center_${CC_VERSION}/*.deb
```

When asked how to proceed with the configuration files, choose to keep the old files.

**NOTE:** New optional and updated settings may be available in the example configuration files provided in the packages. Feel free to review these and add new options as appropriate for your installation. It is not mandatory to change any existing files to keep the current functionality.

- **Run the database migration:**

```
sudo ncc migrate
```

**NOTE:** This command takes considerable time to execute.

- **Install the new Test Agent repository:**

```
TA_APPLIANCE_VERSION=<enter version number here>
TA_APPLICATION_VERSION=<enter version number here>

# Compute the checksums for the Test Agent files and verify that each one is
# equal to the SHA256 checksum provided on the download page
sha256sum paa-test-agent_${TA_APPLIANCE_VERSION}_all.deb
sha256sum paa-test-agent-application_${TA_APPLICATION_VERSION}_all.tar.gz

# Start the installation
sudo apt-get install ./paa-test-agent_${TA_APPLIANCE_VERSION}_all.deb
```

```
sudo cp paa-test-agent-application_${TA_APPLICATION_VERSION}.tar.gz \
/usr/lib/python2.7/dist-packages/netrounds/static/test_agent/
```

- **Enable** the apache2, kafka, and netrounds-callexecuter services:

```
sudo systemctl enable apache2
sudo systemctl enable kafka
sudo systemctl enable netrounds-callexecuter
```

- **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 kafka openvpn@netrounds
```

- To activate the new configuration, you also need to run:

```
sudo systemctl reload apache2
```

## Rollback in Case of Failed Upgrade

If a Control Center upgrade fails, here is how to return the system to its state immediately before the upgrade:

- Make a clean Ubuntu installation according to the Installation Guide, chapter [Installing Required OS and Software](#).
- Install the version of Control Center that you were using before the upgrade. Again, follow the Installation Guide, chapter [Installing Control Center and Related Tasks](#).
- Recover your data from backup as explained in the Lifecycle Management Guide, chapter [Restoring Product Data from Backup](#).

## Note on Speedtest in Netrounds 2.31

In order for Speedtest to work after upgrading to 2.31, you need to add this setting to `/etc/netrounds/restol.conf`:

```
ALLOWED_ORIGINS=http://app.netrounds.com
```

Note especially that the protocol must be set to `http`. This is because Speedtest runs over HTTP (rather than HTTPS) for maximum performance.

To learn about how the `ALLOWED_ORIGINS` setting works, read this article: <https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/Access-Control-Allow-Origin>

To understand the big picture regarding Cross-Origin Resource Sharing (CORS), you will find this article helpful: <https://developer.mozilla.org/en-US/docs/Web/HTTP/CORS>

## Note on Control Center YANG Models

Upgrading Control Center, and specifically the `netrounds-confd_<version>_all.deb` package, may replace the Control Center YANG model with a newer version. This is relevant for orchestration solutions that rely on that YANG model and on the NETCONF & YANG API. The Control Center YANG model `netrounds-ncc.yang` is found under `/opt/netrounds-confd/`.

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