



This PDF is generated from authoritative online content, and is provided for convenience only. This PDF cannot be used for legal purposes. For authoritative understanding of what is and is not supported, always use the online content. To copy code samples, always use the online content.

# Genesys Pulse Deployment Guide

Optional: Deploy RabbitMQ for quick widget updates

12/19/2025

---

## Contents

- 1 Optional: Deploy RabbitMQ for quick widget updates
  - 1.1 Decide on Configuration
  - 1.2 All Configurations
  - 1.3 Cluster Configuration
  - 1.4 Configuration for Pulse

## Optional: Deploy RabbitMQ for quick widget updates

Use RabbitMQ for quick widget updates.

### Important

Genesys Pulse supports quick updates for CurrentStatus and ExtendedCurrentState statistics only to prevent a high performance load this causes on Stat Server and Genesys Pulse.

You are responsible to validate that your environment can handle the load in production caused by quick updates.

## Decide on Configuration

1. Determine whether to use RabbitMQ with Genesys Pulse using Cluster or Single-Node configurations. Genesys Pulse supports using these configurations only with RabbitMQ.
  1. **Cluster configuration** — Use at least the same number of RabbitMQ instances as the number of Genesys Pulse Collector applications. RabbitMQ can run on any host: either the one where Genesys Pulse runs or any other host accessible over reliable network.  
The default configuration should be one RabbitMQ instance running on every host where Genesys Pulse Collector runs. For example, Primary host (host1) and Backup host (host2).
  2. **Single node configuration** — This simple configuration uses a single RabbitMQ instance running either on a host with Genesys Pulse Collector or any other host accessible over reliable network.  
**Note:** If this RabbitMQ instance fails or the whole host fails, quick widget Updates stop working. If you choose this configuration, you still need to go through all steps to deploy RabbitMQ unless clearly stated otherwise. The host with RabbitMQ is called host1 in the remainder of this deployment.

## All Configurations

1. To use RabbitMQ to work with Genesys Pulse, use the following software versions:
  - RabbitMQ server version 3.11.5.
  - The version of Erlang compatible with that version of RabbitMQ.
  - Use identical versions of Erlang on all hosts running RabbitMQ.

### Tip

We specify the lowest acceptable version here, but any later versions should work unless their RNs specify that there are some backward compatibility changes.

2. On every host, install Erlang and RabbitMQ. Follow the [instructions at the RabbitMQ site](#), to install on your brand of Linux or on Windows.
3. After installing, change RabbitMQ server's option, `channel_max`, to 0.
4. On every host, start RabbitMQ server as described on the page of installation instructions you used. This will generate an Erlang cookie file, required for using RabbitMQ in a cluster.

## Cluster Configuration

Refer to [RabbitMQ's Clustering Guide](#) to set up the RabbitMQ cluster on your hosts.

## Configuration for Pulse

1. Create a vhost with a name `/pulse` for Genesys Pulse. If you create a vhost with a different name, you must specify it in Genesys Pulse Collector configuration options. On any of the hosts run the following command:  

```
rabbitmqctl add_vhost /pulse
```
2. Create a user for Genesys Pulse with name **'pulse'** and password **'pulse'**. If you create a user with a different name and password, you must specify them in Genesys Pulse Collector configuration options. On any of the hosts run the following command:  

```
rabbitmqctl add_user pulse pulse
```
3. Grant user access to vhost. Here is how to grant user **'pulse'** access to vhost **'/pulse'** with permissions to create exchanges with names starting with **'pulse'**. On any of the hosts run the following command:  

```
rabbitmqctl set_permissions -p /pulse pulse "^pulse.*" ".*" ".*"
```
4. To configure Genesys Pulse Collector to work with RabbitMQ you need to have `transport-rabbitmq` section configured in options of Genesys Pulse Collector application object.
  1. Add or update [configuration options](#) in the `[transport-rabbitmq]` section.
  2. Restart Genesys Pulse Collector and Genesys Pulse to apply changes.

### Important

#### RabbitMQ memory and disc usage

RabbitMQ instances should not store any Genesys Pulse application data on disc, so the disc usage is insignificant unless the message queue for any of the Genesys Pulse applications grows too large. To ensure that the message queue does not grow too big in some exceptional cases there is a limit on queue length in

Genesys Pulse, which is controlled by option `max-queue-length` in section `transport-rabbitmq` of Genesys Pulse Collector application options.

Use the value of this option to estimate possible RabbitMQ memory usage. To roughly estimate upper limit of possible memory usage use this formula:

$$\text{<Max memory usage>} = \text{<RabbitMQ idle memory usage>} + 3 * ( \text{max-queue-length} * \text{<Average size of a delta snapshot>} * 4 )$$

For example, for an average change in message size of 10KB, RabbitMQ idle memory usage of 100MB, and `max-queue-length` of 1000, we obtain 220MB of memory usage.

### Tip

If Genesys Pulse and Genesys Pulse Collector are installed on the same host, instead of RabbitMQ you can use embedded Aeron transport by specifying options in the `transport-aeron` section of your Genesys Pulse Collector application. **Note:** For the successful usage of the embedded Aeron transport you do not need to implement **Advanced Alerting** services.

Starting with release 9.0.001, Genesys Pulse and Genesys Pulse Collector support Aeron transport configured on Windows.