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# Genesys Pulse Deployment Guide

## WebDAV Server Configuration

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# WebDAV Server Configuration

Use WebDAV server for sharing snapshots between Genesys Pulse and Genesys Pulse Collector when they are installed on different hosts.

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### WebDAV server requirements

Genesys Pulse requires the following set of WebDAV methods:

- HEAD—POST for snapshot and internal snapshot cleanup functionality
- MKCOL—POST for snapshot
- PUT—POST for snapshot
- GET—GET for snapshot, GET for snapshots and for heartbeat check during GET for healthcheck
- PROPFIND—GET for snapshot, GET for snapshots and internal snapshot cleanup functionality
- DELETE—internal snapshot cleanup functionality

The recommended web server with WebDAV support is lighttpd (the latest version) with WebDAV module.

### Genesys Pulse configuration with WebDAV

Before configuring **WebDAV-related options**, make sure that you can access the snapshot and heartbeat folders using a web browser from your Genesys Pulse hosts.

- Set the **output-folder** option in the **[transport-file]** section and the **heartbeat-folder** option in the **[heartbeat]** section in the Genesys Pulse Collector application object to local folders, because the WebDAV snapshot files are stored on the host where Genesys Pulse Collector is installed.

To enable Genesys Pulse to pull snapshots from a remote Genesys Pulse Collector instead of the local host, you need to configure the following Genesys Pulse Collector application options:

- Set the **output-url** option in the **[transport-webdav]** section to **http://<WebDAV host>/<path to snapshots folder>**
- Set the **heartbeat-url** in the **[transport-webdav]** section to **http://<WebDAV host>/<path to heartbeat folder>**
- Set the **latest-snapshot-output-url** option in the **[transport-webdav]** section to **http://<WebDAV host>/<path to the latest snapshots folder>**
- Set the **username** option in the **[transport-webdav]** section to **<username for WebDAV>**
- Set the **password** in the **[transport-webdav]** section to **<password for WebDAV>**

Ensure the **path to snapshots folder** and **path to heartbeat folder** are relative to the Document Root of the WebDAV server. For example, if the Document Root is **/var/www/** and the snapshots folder is **/var/www/snapshots**, then the URL is **http://<WebDAV host>/snapshots**.

### Important

The Genesys Pulse Collector configuration must not contain the **external-output-folder** option in the **[transport-file]** section nor the **external-heartbeat-folder** option in the **[heartbeat]** section.

## Installation and Configuration of lighttpd on Linux

### Warning

Packages, specified below, must be installed along with all their required dependencies, using standard OS tools and practices. Genesys does not provide specific instructions on how to install third-party dependencies. The below steps are just an example of an installation on RHEL.

### Installation of lighttpd with WebDAV module

1. Enable EPEL by following instructions on <http://fedoraproject.org/wiki/EPEL>.
2. Install lighttpd: As **root** issue the following command:
  - `yum install lighttpd`

### Configuration of lighttpd

1. If IPv6 is not supported or should not be used, then edit the file `/etc/lighttpd/lighttpd.conf` and change `server.use-ipv6` to `disable`:

```
server.use-ipv6 = "disable"
```
2. To disable returning errors when the Expect header is in requests and to increase the number of supported parallel requests add the following lines to the `/etc/lighttpd/lighttpd.conf` file:

```
server.reject-expect-100-with-417 = "disable"
server.max-fds = 2048
server.max-connections = 1024
```
3. Make sure it runs under same user that Genesys Pulse uses or that a user that has read write access to Genesys Pulse Collector directories  
For this, you might need to adjust **server.username** and **server.groupname** in `/etc/lighttpd/lighttpd.conf`  
Make sure that this user had access to all directories for lighttpd (for example, `var.log_root`, `var.state_dir`, `var.home_dir`) and others mentioned in `/etc/init.d/lighttpd` and in `/etc/lighttpd/lighttpd.conf`
4. Enable WebDAV module by editing the `/etc/lighttpd/modules.conf` file and uncommenting the following line:

```
include "conf.d/webdav.conf"
```

5. Change the configuration of the WebDAV module by editing the file `/etc/lighttpd/conf.d/webdav.conf`.

Example of configuration:

```
## This configuration assumes that
## transport-file/output-folder = /genesys/collector_output/snapshots
## transport-file/external-output-url = http://<host>/snapshots
## heartbeat/heartbeat-folder = /genesys/collector_output/heartbeat
## heartbeat/external-heartbeat-url = http://<host>/heartbeat
server.modules += ( "mod_webdav" )
$HTTP["url"] =~ "^(|$|/)" {
    ## Specify full path to parent folder for snapshots and heartbeat folders
    server.document-root = "/genesys/collector_output/"
    webdav.activate = "enable"
    dir-listing.activate = "enable"
}
```

You can also have `webdav.activate = "enable"` on the top level (not inside of `$HTTP`) if you want all files and directories in your `server.document-root` to be accessible through WebDAV.

6. Make sure that the `webdav.sqlite-db-name` parameter is commented out in `webdav.conf`.
7. Restart the lighttpd server:

```
/etc/init.d/lighttpd restart
```

## Installation and configuration of WebDAV extension for IIS 8 on Windows Server 2012

### Important

Microsoft IIS configuration is complex and requires a competent Windows IIS administrator. Genesys does not provide support for IIS configuration.

## Genesys Pulse Configuration Limitations

Anonymous Authentication is the IIS authentication method that can be used for Genesys Pulse.

### Limitations when using IIS Anonymous Authentication

1. Only Genesys Pulse Collector is supported as a data collector for Genesys Pulse.
2. You must use **cleantool** from the Genesys Pulse Collector installation to cleanup old snapshots.

### Important

To avoid issues with the cleaning process, disable the automatic removal by setting

the Genesys Pulse option `snapshot_expire_timeout` to 0 (zero) in the [pulse] section.

### Enhance Authentication Security

You can improve the security of Anonymous Authentication by restricting access to WebDAV to explicitly specified IP addresses of hosts where Genesys Pulse is installed:

1. Install the IP and Domain Restrictions feature of IIS.
2. Using the IIS Manager, you can select the website that is configured to share Genesys Pulse snapshots in the **Sites** section of your host.
3. In the **IP Address and Domain Restrictions** section, click **Edit Feature Settings** in the **Actions** pane.
4. Set the **Access for unspecified clients** to **Deny** and click **OK**.
5. Click **Add Allow Entry** in the actions pane and specify the IP addresses of the hosts running Genesys Pulse in the **Specific IP address** field.

### Installing the WebDAV extension for IIS 8

Install the WebDAV extension and enable it for your IIS instance according to the [guide](#) provided by Microsoft.

### Configure the IIS website with WebDAV extension to work with Genesys Pulse

1. Open the IIS Manager.
2. In the **Sites** section of your host, select the website that shares Genesys Pulse snapshots with the Genesys Pulse components.
3. Go to the **Authentication** section and enable the **Anonymous Authentication** method. Disable all other authentication methods.
4. Go to the **MIME Types** section and add the following MIME types:
  1. Extension ".\*" and MIME type "application/octet-stream"
  2. Extension ".gpb" and MIME type "application/octet-stream"
  3. Extension ".LZ4" and MIME type "application/octet-stream"
5. Go to the **WebDAV Authoring Rules** section, click the **WebDAV Settings...** link in **Actions** pane and change the value for **Allow Anonymous Property Queries** option to **True**.
6. In the **WebDAV Authoring Rules** section, add **Read** and **Source** permissions for all content and all users.
7. Edit your web site's **Basic Settings...** so that the **Physical path** property is configured to where Genesys Pulse Collector writes the snapshot and heartbeat files.