

## Packaging - Issue #7189

### SELinux policy doesn't using systemd's Type=notify

07/22/2020 04:00 PM - ekohl

|                                    |                                  |
|------------------------------------|----------------------------------|
| <b>Status:</b> NEW                 | <b>Start date:</b>               |
| <b>Priority:</b> Normal            | <b>Due date:</b>                 |
| <b>Assignee:</b>                   | <b>Estimated time:</b> 0:00 hour |
| <b>Category:</b>                   |                                  |
| <b>Sprint/Milestone:</b>           |                                  |
| <b>Severity:</b> 2. Medium         | <b>Groomed:</b> No               |
| <b>Version - Packaging:</b>        | <b>Sprint Candidate:</b> No      |
| <b>Platform Release:</b>           | <b>Tags:</b> SELinux             |
| <b>Target Release - Packaging:</b> | <b>Sprint:</b>                   |
| <b>OS:</b>                         | <b>Quarter:</b>                  |
| <b>Triaged:</b> No                 |                                  |

#### Description

gunicorn can use the systemd Type=notify (see <https://docs.gunicorn.org/en/stable/deploy.html#systemd> and <https://www.freedesktop.org/software/systemd/man/systemd.service.html#Type=>). However, the SELinux policy doesn't allow the creation of unix\_dgram\_socket.

This blocks the use of systemd socket activation which would be much more secure. Currently the process listens on 127.0.0.1:24817 which means anyone who can open a socket connection there can impersonate any admin user. That gives full API control to users who would normally be unauthenticated. By using systemd's socket activation, we can listen on /run/pulpcore-{api,content}.sock with apache as the owner and mode 0600. That means only Apache can access the socket.

There may be more permissions needed for this. I only tested with just using Type=notify, not with an actual socket.