

FIXING 502 BAD GATEWAY ERROR IN OPENMEDIAVAULT WEB UI AFTER SYSTEM UPDATE

After updating your OpenMediaVault (OMV) system, the Web UI became inaccessible and showed 502 error

502 Bad Gateway error:

This error is caused by a failure in the communication between Nginx (the web server) and PHP-FPM (the PHP FastCGI Process Manager), which handles PHP processing for OMV's Web Interface.

Why Did This Happen?

During the update:

- PHP-FPM was updated or reconfigured.
- The system rebooted or restarted services.
- The `/run/php/` directory (used to store socket files) was missing or not recreated properly.
- This led PHP-FPM to fail at startup because it couldn't create its communication socket:
- `/run/php/php8.2-fpm.openmediavault-webgui.sock`
- As a result, Nginx couldn't reach PHP-FPM to render the UI.

The Symptoms

Web UI shows 502 Bad Gateway:

- `systemctl status php8.2-fpm` shows: `ERROR: unable to bind listening socket...`
- Restarting PHP-FPM gives error `status=78/CONFIG`

STEPS TO FIX THIS ISSUE:

1. Manually create the missing directory: **`sudo mkdir -p /run/php`**
2. Assign proper permissions to the directory: **`sudo chown www-data:www-data /run/php`**
3. Restart the PHP-FPM service: **`sudo systemctl restart php8.2-fpm`**
(At this point, PHP-FPM should start successfully.)
4. Redeploy PHP and Nginx configs from OMV: **`sudo omv-salt deploy run phpfpm nginx`**

This ensures that the config files are properly regenerated and all required services are correctly configured.