

How to Override the rpm.versions System

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Overview

This document explains the files in the `/var/cpanel/rpm.versions.d/` directory, which system administrators and third-party developers can use to modify cPanel-provided RPM management.



Notes:

- All of the rpm.version system's `.versions` files are stored in the [YAML](#) format.
- Because YAML is space-sensitive, misspelled words are common when system administrators edit a file manually. For this reason, we encourage system administrators to use the `/scripts/update_local_rpm_versions` script to edit the `/var/cpanel/rpm.versions.d/local.versions` file. For more information, read our [The update_local_rpm_versions Script](#) documentation.

rpm.versions files

The `/usr/local/cpanel/etc/rpm.versions` file contains cPanel-provided settings for the rpm.versions system, based on the version of cPanel & WHM that your server runs. However, the rpm.versions system allows any `.versions` files in the `/var/cpanel/rpm.versions.d` directory to override these settings.

The following table lists information about the files from which the rpm.versions system retrieves information:

Source of changes	Location	Description
cPanel, Inc.	<code>/usr/local/cpanel/etc/rpm.versions</code>	<p>cPanel, Inc. provides these settings based on the version of cPanel & WHM that your server runs.</p> <div> Warning: We strongly recommend that you never directly edit this file, because you will lose your changes when you perform an upgrade.</div>
Third-party developers	<code>/var/cpanel/rpm.versions.d/*.versions</code>	<p>We encourage third-party developers who wish to override the <code>/usr/local/cpanel/etc/rpm.versions</code> file to create their own <code>*.versions</code> files in the <code>/var/cpanel/rpm.versions.d/</code> directory. These settings override the cPanel-provided settings.</p> <div> Important: If multiple <code>*.versions</code> files on a server list an RPM target, conflicts may occur. For more information, read the Third-party conflicts section below.</div>
System administrators	<code>/var/cpanel/rpm.versions.d/local.versions</code>	<p>These settings override all other settings.</p> <div> Remember: We encourage system administrators to use the <code>/scripts/update_local_rpm_versions</code> script to edit the <code>/var/cpanel/rpm.versions.d/local.versions</code> file. For more information, read our The update_local_rpm_versions Script documentation.</div>

Third-party conflicts

If a conflict exists between two or more third-party files in the `/var/cpanel/rpm.versions.d/` directory, **no** RPM updates will take place.

A conflict can occur if two vendors modify the same setting in a file. You can resolve a conflict in either of the following ways:

1. If the `/var/cpanel/rpm.versions.d/local.versions` file contains a modification to the same setting that caused the conflict between the vendor files, the setting that the `/var/cpanel/rpm.versions.d/local.versions` file specifies will override the conflict.
2. The vendors can resolve the conflict through changes to their respective files in the `/var/cpanel/rpm.versions.d/` directory.

File format

The files in the `/var/cpanel/rpm.versions.d/` directory use the [YAML](#) format, and follow a structure that resembles the `/usr/local/cpanel/etc/rpm.versions` file. However, these files should **only** contain the values that you wish to specifically override in the `rpm.versions` system.



Note:

For a full description of this file format, read our [The rpm.versions File](#) documentation.

A file in the `/var/cpanel/rpm.versions.d/` directory that overrides only one RPM target will appear similar to the following example:

```
file_format:
  version: 2
install_targets: {}

rpm_groups: {}

deferred_settings: {}

deferred_optional: {}

rpm_locations: {}

srpm_sub_packages: {}

srpm_versions: {}
target_settings:
  pure-ftpd: unmanaged
url_templates: {}
```

Additional documentation

- [cPanel PHP](#)
- [The find_and_fix_rpm_issues Script](#)
- [The check_cpanel_rpms Script](#)
- [The rpm.versions System](#)
- [How to Override the rpm.versions System](#)