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# Updating System Modules and Components in VEOS 8.8

## Updated Modules

- Python: updated from version 3.6 to 3.9.
- Nginx: updated from version 1.16.1 to 1.20.1.
- Node.js: updated from version 14.x to 18.x.

## Updated Components

- PHP: updated from version 7.2.24 to 7.2.34.
- Ruby: updated from version 2.5.9 to 3.1.2.
- MariaDB: updated from version 10.3 to 10.5.
- LLVM: updated from version 14.0.6 to 16.0.6.

## Performance and Debugging Tools

- NetworkManager: updated to version 1.40.16-4.el8\_8.

## Security Updates

- Kernel Update:
  - The kernel has been updated from version 4.18.0-425.19.2 to 4.18.0-477.13.1.
  - Vulnerabilities in `nf_tables` and other netfilter components have been addressed (CVE-2023-32233, CVE-2023-0386).
  - Enhanced buffer overflow protection in NFSv2 and NFSv3 (CVE-2022-43945).
  - Strengthened data integrity checks in `crypto: jitter` and `crypto: hmac` for FIPS mode.
  - Updated kernel configuration parameters to prevent privilege escalation and data leaks.
- Libreswan:
  - Fixed an issue in handling IKEv1 packets (aggressive mode) to prevent potential vulnerabilities.
- SELinux:
  - Updated from version 3.14.3-117 to 3.14.3-139.
  - Fixed file handling in the `opencryptoki` cryptographic library located in `/dev/shm`.
  - Allowed `httpd` access to tokens in `/dev/shm`.
  - Updated policies for `system_cronjob_t` and `rpm_script_t`.

## Package Changes

## **Added**

- `efitools`: Tools for working with EFI.
- `perl-IO-Tty`: Dependencies for working with TTY.
- `perl-YAML-LibYAML`: YAML support for Perl.
- `sbsigntools`: Tools for signing Secure Boot.
- `perl-IO-stringy`: Tools for working with text data as file descriptors.
- `perl-IPC-Run`: Process and stream management (stdin, stdout, stderr) in Perl.

## **Removed**

- `dvd+rw-tools`: Replaced with more modern utilities.
- `perl-Digest-SHA1`: Replaced with modern cryptographic libraries.
- `zabbix`: Deprecated monitoring package.
- `guava20`: Java library with extended collections, thread utilities, caching, and string processing.