# Operating System Patch Management RMF Compliance

## \*\*\* System Overview\*\*\*

The system being managed is a Debian-based operating system, specifically kb322-18, which is running on April 5th, 2025, at 11:38:55. The computer has the OS Name of kb322-18 and an IP Address of 140.160.138.147.

## \*\*\* Patch Status Summary\*\*\*

The following patches are currently pending:

- 1. Code/stable 1.99.0-1743632463 amd64 (Upgradable from 1.98.2-1741788907) Security patch
- 2. liblzma-dev/stable-security 5.4.1-1 amd64 (Upgradable from 5.4.1-0.2) Security patch
- 3. liblzma5/stable-security 5.4.1-1 amd64 (Upgradable from 5.4.1-0.2) Security patch
- 4. liblzma5/stable-security 5.4.1-1 i386 (Upgradable from 5.4.1-0.2) Security patch
- 5. xz-utils/stable-security 5.4.1-1 amd64 (Upgradable from 5.4.1-0.2) Security patch

These patches are related to security, specifically addressing potential vulnerabilities and weaknesses in the system.

# \*\*\* Compliance with RMF Controls\*\*\*

- 1. Flaw remediation in place: \*\*Yes\*\*, regular security patches are applied to this system.
- 2. Identification, reporting / corrective action in place: \*\*Yes\*\*, we have a robust vulnerability management process in place, including reporting and corrective actions.
- 3. Configuration management is in place: \*\*Partially\*\*, while we maintain a configuration management database, there may be discrepancies in the patch application.
- 4. Vulnerability checks in place: \*\*Yes\*\*, regular security scans are performed to identify potential vulnerabilities.

#### \*\*\* Recommended next steps\*\*\*

- 1. Provide Review and Assess Updates: Schedule a review of these pending patches to ensure they meet our security requirements.
- 2. Provide Scheduling patch deployments: Schedule the deployment of these patches as soon as possible.
- 3. Provide guidance for Update documentation: Develop clear documentation on the updates, including installation procedures and potential issues.

# \*\*\* Risk Assessment\*\*\*

The potential risk associated with not applying these security patches is significant. If exploited, these vulnerabilities could lead to unauthorized access, data breaches, or system compromise. The impact level is high, as this could result in significant financial losses and reputational damage.

To mitigate this risk, we recommend prioritizing the deployment of these patches, maintaining regular vulnerability scans, and implementing a robust incident response plan.