

Fixes for CVE-2025-59088 and CVE-2025-59089 #68

Merged jrisc merged 3 commits into `latchset:main` from `jrisc:cve_2025_59088-89` on Nov 14, 2025

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jrisc commented on Nov 12, 2025

Collaborator

This PR fixes two vulnerabilities:

- [CVE-2025-59088](#): Server-side request forgery (SSRF) via DNS discovery
 - Possible because use of DNS SRV records to discovery KDCs was allowed by default for any requested realm
 - Now restricts DNS discovery of KDCs to realms explicitly declared in the configuration only
 - Adds support for wildcard realm sections (e.g., `[*EXAMPLE.COM]`) to handle realm hierarchies (like AD forests)
 - Previous unsafe behavior can be restored using the `dns_realm_discovery` setting
 - A warning is logged if a resolved SRV record points to a non-standard Kerberos port (can be suppressed using the `silence_port_warn` setting)
- [CVE-2025-59089](#): DoS attack via unbounded TCP buffering
 - Possible because of improper message length checks and redundant buffer exports
 - No longer accept messages longer than maximum Kerberos message length
 - Interrupts receiving when incoming message exceeds expected length
 - Export buffer only once after receiving process completed


Also remove outdated MIT license classifier, enable tests for Python 3.12 and 3.14, add missing test dependencies, and do not re-enable implicitly ignored conflicting Flake8 constraints (line breaks before AND after binary operators).

Given the fact this PR has a significant impact on how the configuration of kdcproxy works, it would probably make sense to make it part of a new release.

 **jrisc** added 3 commits [6 months ago](#)

  [Fix DoS vulnerability based on unbounded TCP buffering](#) ... [93ba737](#)

  [Use DNS discovery for declared realms only](#) ... [0254c16](#)

  [Update setup.py and tox.ini](#) ... ✓ [e91bdca](#)

  **jrisc** changed the title [Fixes CVE-2025-59088 and CVE-2025-59089](#) [Fixes for CVE-2025-59088 and CVE-2025-59089](#) on [Nov 12, 2025](#)

✓ **simo5** approved these changes [on Nov 12, 2025](#)

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simo5 left a comment

Member

LGTM



 **jrisc** merged commit [840cd83](#) into [latchset:main](#) on [Nov 14, 2025](#)

8 checks passed

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Reviewers



simo5



Assignees

No one assigned

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

Successfully merging this pull request may close these issues.

None yet

2 participants

