FedRAMP

OSCAL Developer Data Bites

June 27, 2024

GSA

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Introduction

Purpose: To create space for dialogue between developers who use OSCAL and the FedRAMP® automation team.

Outcomes:

- Clarity around the new FedRAMP automation website and actions needed prior to finalization
- Understanding of external constraints validation capabilities
- Productive discussion around OSCAL

Agenda:

- Welcome
- FedRAMP Automation PMO General Updates
- Pre-Submitted Q&A
- Introduction of the NEW FedRAMP Automation website
- Live Demo of the External Constraints Validation Capabilities (relating to OSCAL-CLI tool)
- Open Forum
- Next Steps & Closing

Data Bites Guiding Principles

Keep the discussion respectful

Be curious, seek understanding

Speak from your own experience

Challenge through questions

Focus on ideas

Keep it technical

General Updates

FedRAMP Automation Community Updates

June 27, 2024

Revising OSCAL Guides

FedRAMP automation team is continuing to work towards publishing HTML versions of the OSCAL guides to replace the current PDF versions.

- Guides and related documentation were moved to new repository: https://github.com/GSA/automate.fedramp.gov
- Final stages prior to release

Local Validation Tooling

FedRAMP automation team is working on adding metaschema validation mechanisms in the OSCAL-CLI tool.

GitHub Issues

Prioritized the following:

- Issue #599 - HTML guides and automation website pre-release updates
- Issue #592 - Refactoring CI to use the OSCAL CLI
- Issue #598 - Setting up test harness and framework to automate testing of OSCAL CLI
- Issue #563 - Resolved profile catalogs are missing props

View the project workboard for more details on ongoing work and upcoming priorities

Review needed

https://github.com/orgs/GSA/projects/25/views/7

Pre-Submitted Questions

Pre-Submitted Questions

Question (Issue #600):

Q: How should the legacy SSP Appendix A be generated when there are parameters by component, and differences in statements?

For instance, CM-6 may have multiple parameters from multiple statements that are different for components, but there is only 1 statement deviation.

A: The difference in granularity of control implementation statements in the legacy SSP vs OSCAL SSPs may require some deviation from the published FedRAMP SSP document template.

A key objective of the FedRAMP **Digital Authorization Package Pilot** in 2024 is to explore more expansive use of “components” assemblies in OSCAL SSPs to contextualize security information in a more useful way. A planned outcome of the pilot will be more definitive guidance and requirements around generated content (e.g., printable SSP).

Live Demo of NEW Automation Website

New FedRAMP Automation Website

Desired Purpose & Outcomes

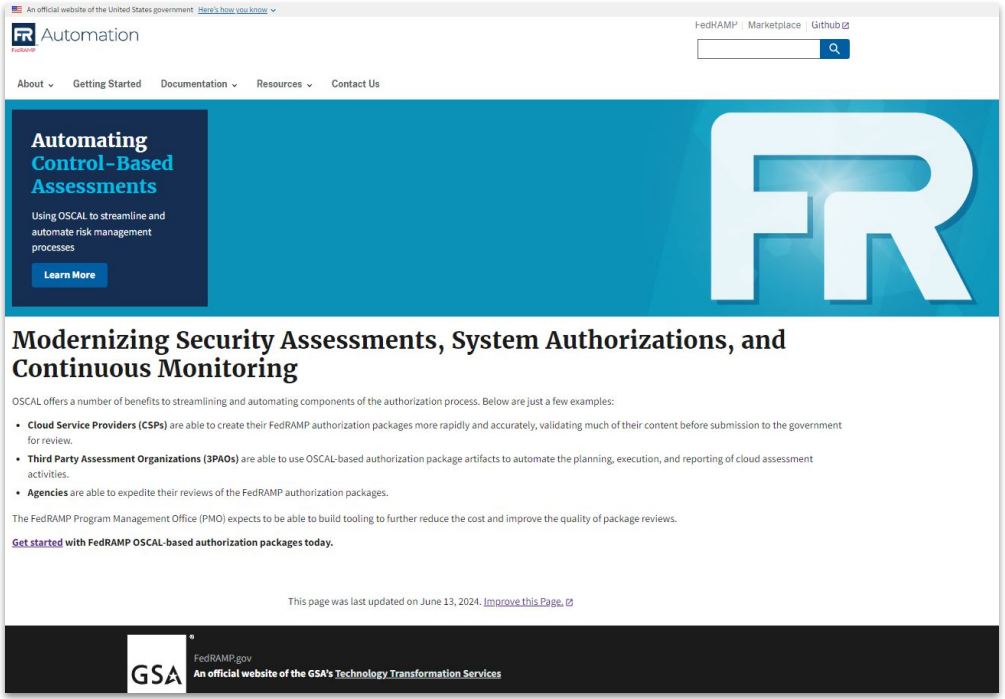
Purpose

- Provide developer-focused technical documentation to help CSPs, tool suppliers, and integrators with the development, validation, and submission of OSCAL-based FedRAMP packages.
- Establish an automated publication process for FedRAMP's OSCAL documentation using a continuous integration and deployment (CI/CD) approach.

Outcomes

- Faster and more frequent documentation updates.
- More complete and current documentation.
- Improved documentation leading to a better user experience for stakeholders that are implementing OSCAL-based FedRAMP packages.
- Improved collaboration with a workflow that supports community contributions for fixes or improvements to the documentation.

Website Demo



Next Steps

Pre-Release

- Ongoing FedRAMP internal review.
- EAWG site preview.
- Communication prior to launch.

Post Release

- Prioritize SSP documentation content fixes and updates (see documentation issues backlog).
- Figure & diagram updates.
- Continued theme / styling enhancements.

External Constraints Validation Capabilities

Relating to the OSCAL - CLI tool

New oscal-cli capabilities

Next Steps

Feature Summary

- Improvements to external constraints processing
- Producing Static Analysis Results Interchange Format (SARIF) validation results

Ongoing Work

- Continued improvements to SARIF output
- Building out Metaschema external constraints for FedRAMP validation

https://github.com/GSA/fedramp-automation/pull/603

Open Forum

Thank you

Our next Developer Data Bites virtual meeting will be on

Thursday, July 25, 2024 at 12p ET.

Submit questions and future discussion topics to OSCAL@fedramp.gov

Learn more at fedramp.gov

@FEDRAMP

Collaborating with FedRAMP

Collaboration Resources

FedRAMP Automation GitHub: https://github.com/GSA/fedramp-automation

- Open Issues: https://github.com/GSA/fedramp-automation/issues
- Open Pull Requests: https://github.com/GSA/fedramp-automation/pulls
- Active Work: https://github.com/orgs/GSA/projects/25/views/3
- Community Review Needed: https://github.com/orgs/GSA/projects/25/views/7

GitHub Resources:

- Issues: https://docs.github.com/en/issues
- Pull Requests: https://docs.github.com/en/pull-requests

How to Submit Issues with FedRAMP

Ensuring your outstanding issues or questions are received:

Issues can be submitted in several ways:

Preferred	Alternate
Open an issue on fedramp-automation github so that it will benefit the NIST/FedRAMP community. https://github.com/GSA/fedramp-automation/issues	Email us at oscal@fedramp.gov

OSCAL Resources

NIST:

https://pages.nist.gov/OSCAL/

Learning Resources: https://pages.nist.gov/OSCAL/learn/

Current release: https://github.com/usnistgov/OSCAL/releases

Development version: https://github.com/usnistgov/OSCAL/tree/develop

Content repo: https://github.com/usnistgov/oscal-content

FedRAMP:

Current repo: https://github.com/GSA/fedramp-automation

Current issues: https://github.com/GSA/fedramp-automation/issues

Validations work: https://github.com/18F/fedramp-automation/tree/master/src/validations

Web based validation tool:

https://federalist-2372d2fd-fc94-42fe-bcc7-a8af4f664a51.app.cloud.gov/site/18f/fedramp-automation/#/documents/system-security-plan