FedRAMP

FedRAMP OSCAL Implementers

October 2, 2024

info@fedramp.gov

fedramp.gov

Introduction

Purpose: To engage Cloud Service Providers, 3PAOs, tool vendors and other participants in FedRAMP's OSCAL Implementers activities.

Outcomes:

- Shared understanding of current OSCAL issues

- Shared understanding of how to write your own SSP in JSON or XML format

Agenda:

- Welcome
- OSCAL Implementers General Updates
- Digital Authorization Package Topic Discussion
- Open Forum
- Next Steps & Closing

FedRAMP 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

Digital Authorization Package Pilot

This week, planned activities include:

Pilot Participants

- Finish setup local validation tooling in their environments
- Asking for help / reporting problems
- Begin validating their SSPs with the local validation tooling
- Writing your own OSCAL SSP

FedRAMP OSCAL Automation Team

- Continue building out FedRAMP external constraints for SSP
- Continued updates to documentation
- Continued updates to the OSCAL-CLI (https://github.com/metaschema-framework/oscal-cli/releases)
- Writing your own OSCAL SSP

GitHub Issues

View the project workboard for more details on ongoing work and upcoming priorities https://github.com/orgs/GSA/projects/25/views/3)

FedRAMP Automation Community Updates

SSP Validation Constraints

- address-type
- attachment-type
- authorization-type
- categorization-has-correct-system-attribute
- categorization-has-information-type-id
- cloud-service-model
- component-type
- control-implementation-status
- data-center-US
- data-center-alternate
- data-center-count
- data-center-country-code
- data-center-primary
- deployment-model
- has-authenticator-assurance-level
- has-authorization-boundary-diagram
- has-authorization-boundary-diagram-caption
- has-authorization-boundary-diagram-description
- has-authorization-boundary-diagram-link
- has-authorization-boundary-diagram-link-rel
- has-authorization-boundary-diagram-link-rel-allowed-value

- has-configuration-management-plan
- has-data-flow
- has-data-flow-description
- has-data-flow-diagram
- has-data-flow-diagram-caption
- has-data-flow-diagram-description
- has-data-flow-diagram-link
- has-data-flow-diagram-link-rel
- has-data-flow-diagram-link-rel-allowed-value
- has-data-flow-diagram-uuid
- has-federation-assurance-level
- has-identity-assurance-level
- has-incident-response-plan
- has-information-system-contingency-plan
- has-network-architecture
- has-network-architecture-diagram
- has-network-architecture-diagram-caption
- has-network-architecture-diagram-description
- has-network-architecture-diagram-link
- has-network-architecture-diagram-link-rel
- has-network-architecture-diagram-link-rel-allowed-value

- has-rules-of-behavior
- has-separation-of-duties-matrix
- has-user-guide
- information-type-system
- interconnection-direction
- interconnection-security
- inventory-item-allows-authenticated-scan
- inventory-item-public
- inventory-item-virtual
- missing-response-components
- privilege-level
- prop-response-point-has-cardinality-one
- resource-has-base64-or-rlink
- resource-has-title
- role-defined-authorizing-official-poc
- role-defined-information-system-security-officer
- role-defined-system-owner
- scan-type
- security-level
- user-type

Highlighted constraints merged to develop branch over the last week - https://github.com/GSA/fedramp-automation/tree/develop/src/validations/constraints

FedRAMP Automation Community Updates

New architecture decision records (ADRs)

- Background and context
  - What is an ADR generally?
  - What does it mean to FedRAMP Automation Team?
  - What do I do with questions, comments, or concerns?
- New ADRs:
  - ADR #8:Streamline correct and incorrect OSCAL data for constraint tests.
  - ADR #9: Integrate help text and links into constraints directly.

FedRAMP Roadmap
Digital Authorization Packages Pilot

Pilot Expectations
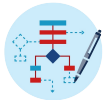
Review code, data, and documentation before, during, and after release in our GitHub repositories

Follow official processes to engage us whether participating frequently or ad-hoc

Full details on the official pilot page:
https://fedramp.gov/digital-authorization-package-pilot/

Digital Authorization Package Pilot

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Roadmap of Next Steps for Users

Near-Term

- ✓ Containerized tools
- ✓ Installation of tools
- ✓ Asking for help / reporting problems
- ❏ **Writing your own OSCAL documents**
- ❏ Using the tooling with OSCAL SSPs
- ❏ Interpreting validation results
- ❏ Configuring the tooling and constraints

Longer-Term

- ❏ Using the tooling with POA&Ms
- ❏ Using the tooling with SAP & SAR
- ❏ Advanced features

See details of planned walkthroughs - https://github.com/GSA/fedramp-automation/issues/653

Digital Authorization Package Pilot

Releases

- Install VS Code, install extensions, and configure it with the oscal_lab environment.
- Writing a SSP in OSCAL JSON format
  - Setting up the schema
  - Setting up the basic structure
  - Adding information about organizations, peoples, and locations
  - Use constraint outputs to refine OSCAL data
- Writing a SSP in OSCAL XML format
  - Setting up the schema
  - Setting up the basic structure
  - Adding information about organizations, peoples, and locations
  - Use constraint outputs to refine OSCAL data

Open Forum

Thank you

Our next Implementers virtual meeting will be on

Wednesday, October 9, 2024 at 12p ET.

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

Learn more at fedramp.gov

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How to Submit Issues with FedRAMP

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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**

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

OSCAL Resources

NIST:

OSCAL repo: 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

Early Adopter repo: https://github.com/GSA/fedramp-oscal-earlyadopters