







Who is Easy Dynamics?



Information Sharing

- ✓ B2B and B2C Information Sharing
- ✓ Consent based and full audit traceability
- / Migrations and assessments
- ✓ Digital Identity and governance
- ✓ Knowledge management



Cloud Delivery

- ✓ Migration readiness, analysis, & planning
- Enterprise cloud operations
- ✓ Software defined networking
- ✓ DevSecOps and CI/CD as a service
 ✓ FISMA/FedRAMP accreditation



Cyber/Identity/Privacy

- √ Identity and access management
- ✓ Privacy engineering and policy development
- ✓ Compliance framework enforcement
- ✓ Asset, ISVM, Anti-virus, SOC/NOC Integration
- ✓ Risk Management and Fraud Detection

HISTORY OF INNOVATION



2020 Public Sector Innovation of the Year



2018 Public Sector Innovation of the Year



STANDARDS ALIGNMENT



- ✓ NIST SP800-63 / NIST SP800-53
- ✓ NIST Privacy Framework
- ✓ NIST OSCAL
- ✓ Cybersecurity profile for payroll industry



simpler stronger authenticatio



ACCREDITATION EXPERIENCE



✓ First FISMA High
 ✓ Cloud Factory 2
 General Support





Navy



- ✓ FedRAMP
- Accreditation

 ✓ Early Adopter OSCAL

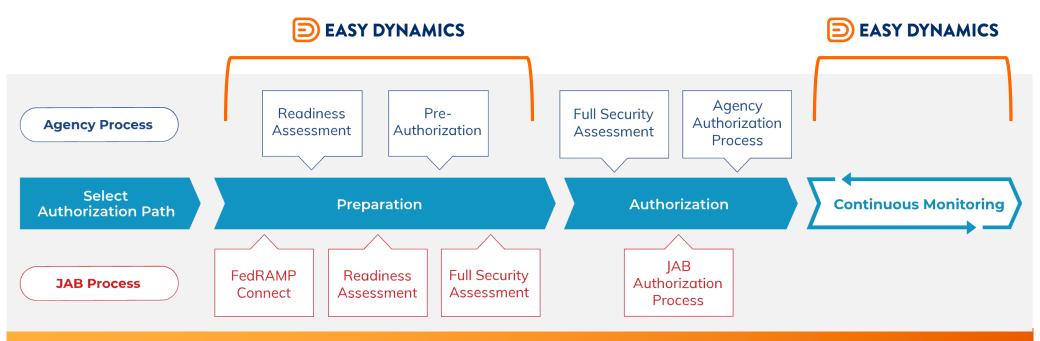
 Submission





Where We Typically Fit in the Assessment Process

(FedRAMP ATO Example)





Challenges We Often See











- x Lacks Guidance on How to Leverage Shared Services Authorizations
- x Lacks Organizational Parameter Guidance

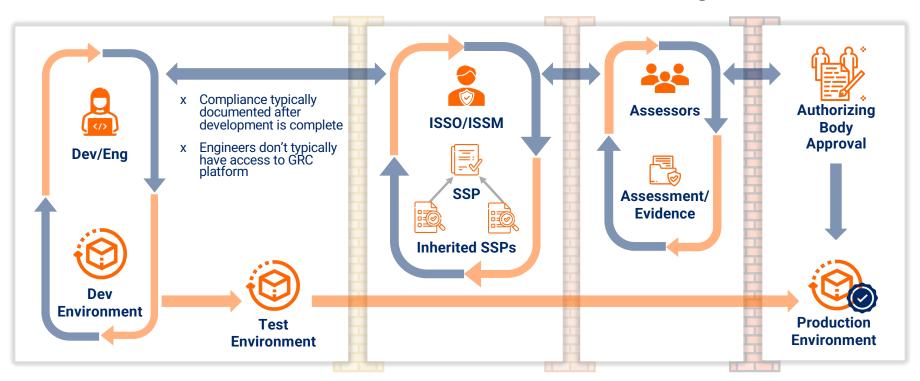


- x Lacks Incremental Methods for Reviews and Evidence Collection Mostly Performed During Assessment Phase
- x Lacks Ability to Continuously Authorize Only the Changes in System Increments
- x Lacks Operating Models that Support Desired Monitoring Rigor

Creates a Significant Burden of Responsibility, Awareness, and Understanding of Broad Cybersecurity Concepts

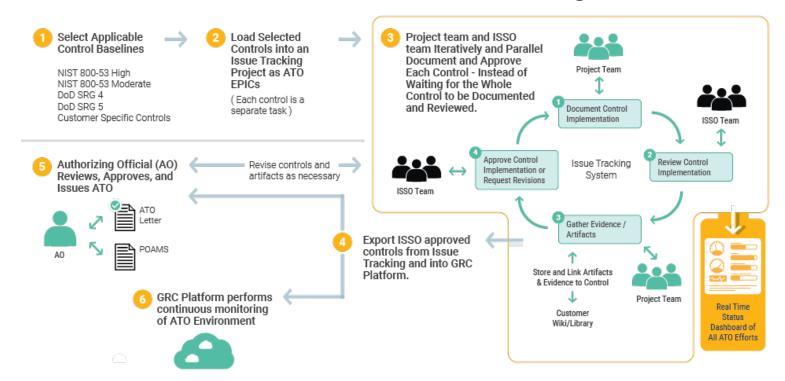


Traditional Assessment Workflow Has Impediments



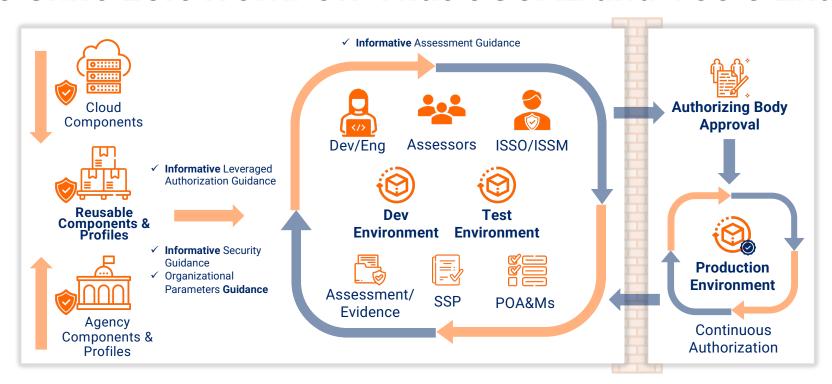


How We've Addressed These Challenges in the Past



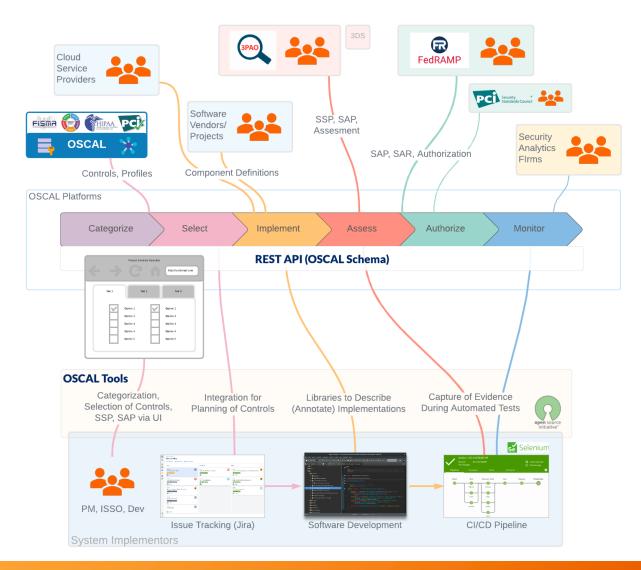


The Shift-Left Workflow That OSCAL and Tools Enable





How We See This Space Evolving





Source on Girlo

What We've Been Working On

CONTRIBUTIONS TO DATE

OSCAL React Component Library and Web App

GitHub https://github.com/EasyDynamics/oscal-react-library
Repository

Storybook https://docs.oscal-react-library.msd.easydynamics.com

Docs

Web App https://oscal-viewer.msd.easydynamics.com

Demo

OSCAL REST API (OpenAPI)

GitHub https://github.com/EasyDynamics/oscal-rest

Repository

Swagger https://editor.swagger.io/?url=...

Editor

WHAT'S NEW!

OSCAL REST Service

- ★ Implementation of some of the OSCAL REST API
- ★ Persists against a file store (such as a Git repository)

GitHub Repository $\underline{\text{https://github.com/EasyDynamics/oscal-rest-service}}$

OSCAL Editor

★ Docker Container with OSCAL REST Service and Web App

GitHub Repository

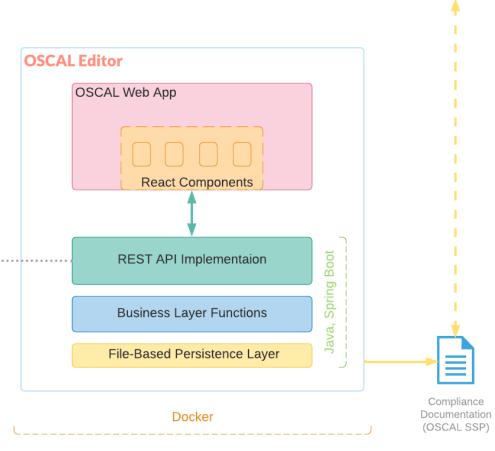
 $\underline{https://github.com/EasyDynamics/oscal-editor-}$

deployment



OSCAL Editor High-Level Architecture

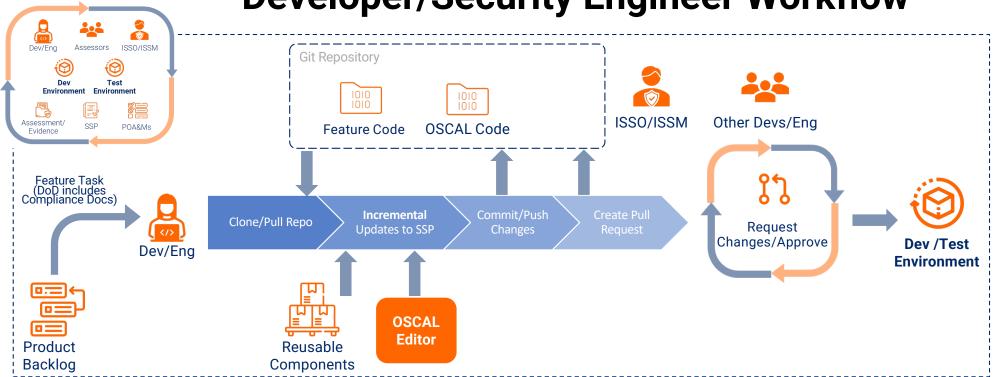




Repository



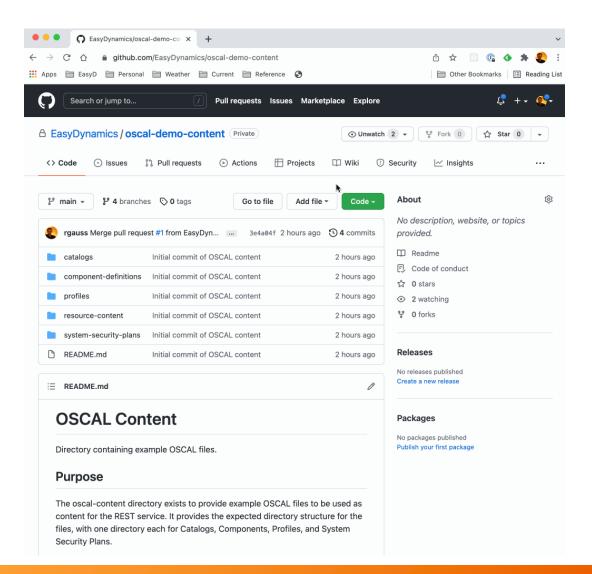
Developer/Security Engineer Workflow





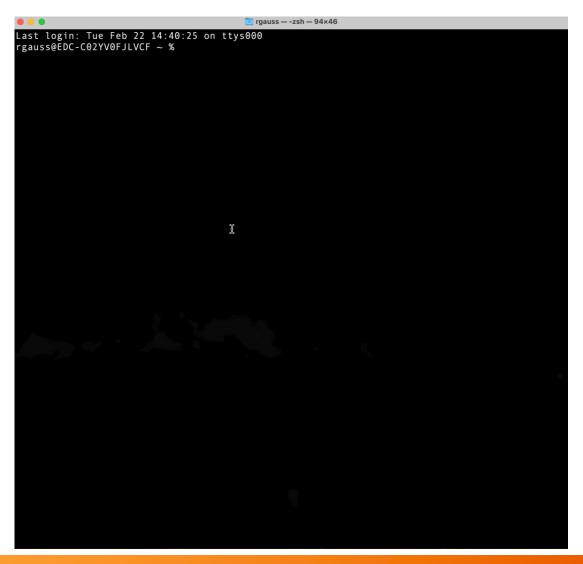


- Dev/Eng
 - Browses OSCAL Content Repository on GitHub
 - Copies Clone URL



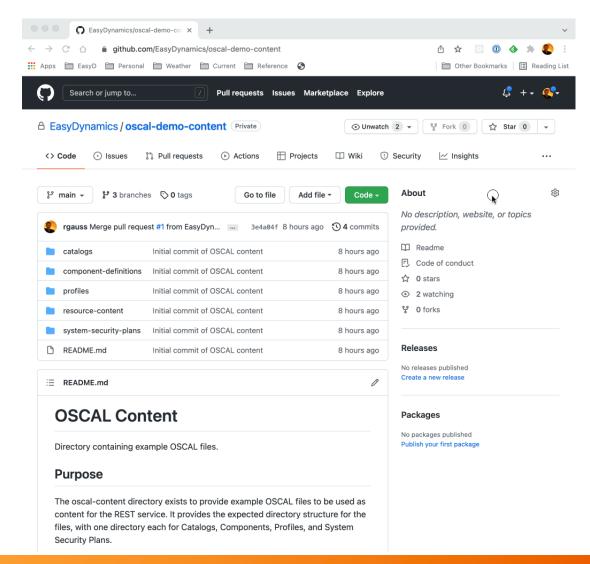


- Dev/Eng
 - Clones OSCAL Content GitHub Repo
 - Pulls Docker Container
 - Runs Docker Container Pointing to Local Content Repo



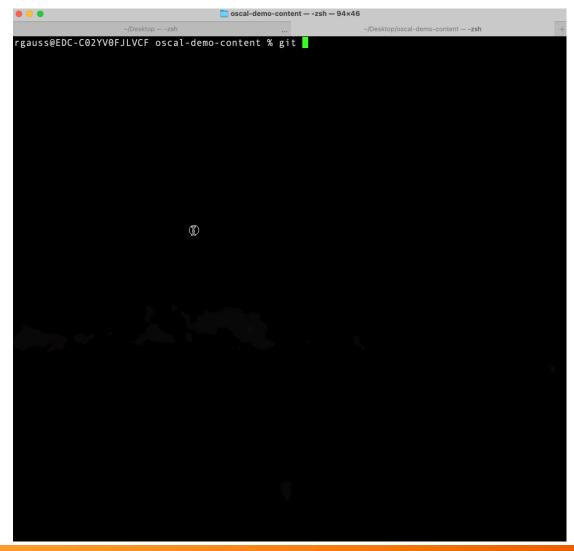


- Dev/Eng
 - Uses OSCAL Editor to Update SSP Title



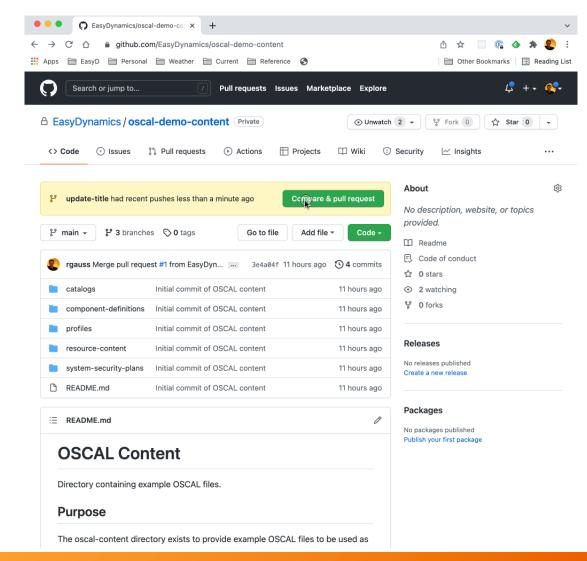


- Dev/Eng
 - Creates Git Branch
 - Commits Change
 - Pushes New Branch



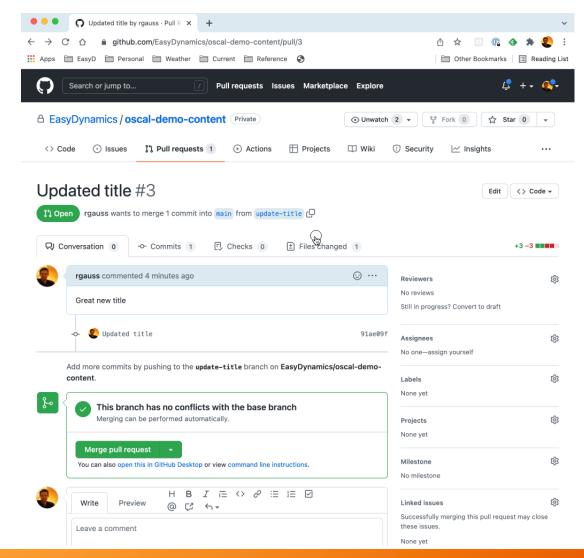


- Dev/Eng
 - Creates PR on GitHub





- ISSO/ISSM
 - Review PR on GitHub





What's Next?

- REST API Improvements
 - With the OSCAL Community's Help
- React Component Library & Web App Improvements
 - Expanded Edit Capabilities
 - UI/UX Improvements
- OSCAL Standards
 - Registry Specification
 - · Component Definitions In Particular
- CI/CD Integration
 - Validation
 - Attachment of Evidence
- IDE Extensions



Questions / More Info

- https://easydynamics.com/oscal
- https://github.com/EasyDynamics
 - <u>oscal-react-library</u>
 - oscal-rest
 - oscal-rest-service
 - oscal-editor-deployment