



Victor Kalil Fellowship Project Presentation

SADI and the Cloud

August 12, 2021





What is SADI?

A Summary

SADI is the new Secure Access Digital Identity application

- Identity and authentication system that complies with new national standards set by National Institute of Standards and Technology (NIST) for identity proofing
- SADI first went live protecting the Child Tax Credit Update Portal this summer
- Next, other IRS applications will integrate with SADI
- Afterwards, SADI will move to be cloud-based



The Goal:

Review NIST standards, SADI architecture, and logical flow to describe requirements and phases for SADI's cloud migration



What is SADI?

A Summary

Sign In or Create a New Account

If you previously signed up to access an IRS.gov application, you may sign in with your existing IRS username.

If you're a new user, please create an account with ID.me.

ID.me is our trusted technology partner in helping to keep your personal information safe.

Sign in with an existing account

Sign in with **ID.me**

Sign in with an existing IRS username

OR

Create a new account

ID.me Create an account



The Process

- Collaborating with technical leads, application analysts, and other team members
- Research into cloud technologies, products, migration processes & best practices, and service models, containerization, etc.
- Breaking down regulations into understandable pieces
- Using software engineering skills to understand SADI architecture and flow, then using product management skills to create in-depth technical paper that describes the cloud migration strategy and best practices



Document Overview

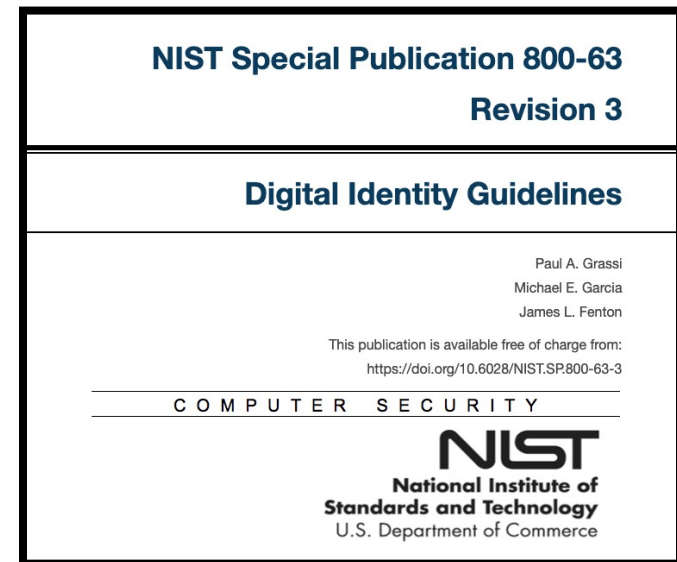
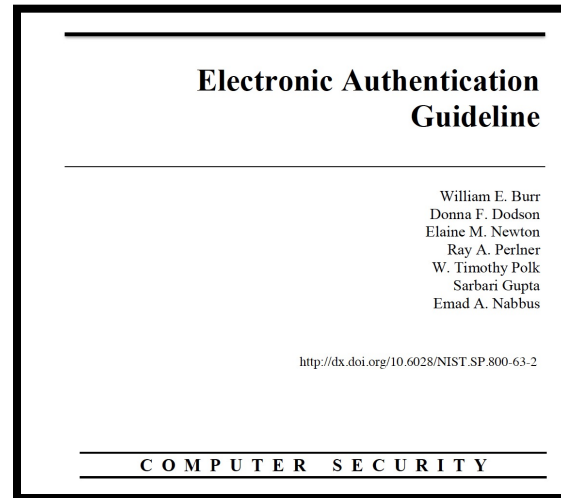
- Introduction
 - Executive Summary
 - Regulations & eAuth
- SADI
 - Customer Journey
 - Logical Overview
 - Dependencies
- Cloud Migration
 - Containerization
 - Block Storage
 - Cloud Security
- What Should Be Moved?
- Glossary
 - and more!



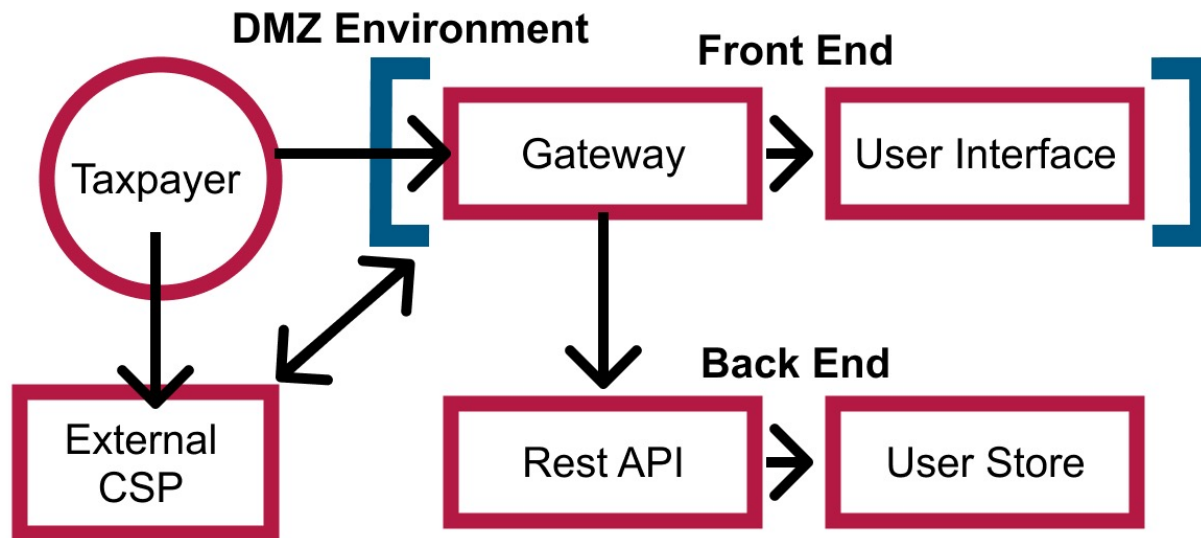
Regulations & eAuth

Essential Points

- Understanding NIST 800-63-2 and differences with the 800-63-3
- Comprehend important aspects of the 800-63-3 that lay the groundwork for SADI

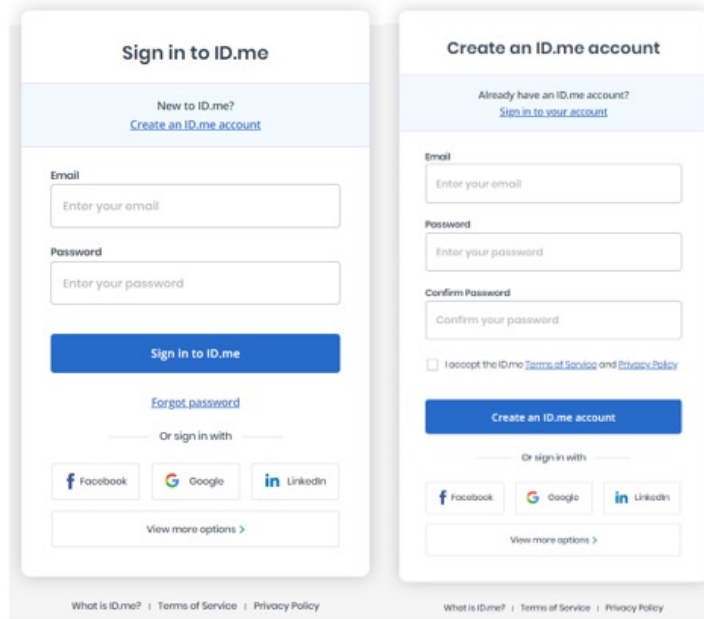


SADI Logical Flow (Simplified)



Understanding SADI

Step 3a: After selecting either ID.me option, taxpayer needs to either log in or create an account to access the application. Taxpayer can navigate between these two options.



The image displays two side-by-side web forms for ID.me authentication. The left form is titled 'Sign in to ID.me' and includes a link for new users to 'Create an ID.me account'. It features input fields for 'Email' and 'Password', a 'Sign in to ID.me' button, a 'Forgot password' link, and social login options for Facebook, Google, and LinkedIn. The right form is titled 'Create an ID.me account' and includes a link for existing users to 'Sign in to your account'. It features input fields for 'Email', 'Password', and 'Confirm Password', a 'Create an ID.me account' button, a checkbox for accepting terms and policy, and the same social login options. Both forms have a footer with links for 'What is ID.me?', 'Terms of Service', and 'Privacy Policy'.

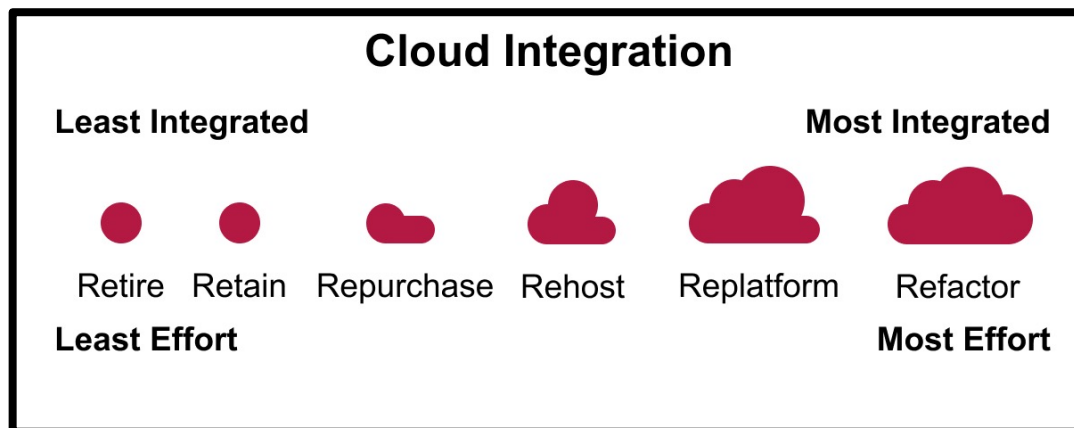
Image 3: Login or Create Account Options using ID.me



Guiding Cloud Migration

Migration Essential Points

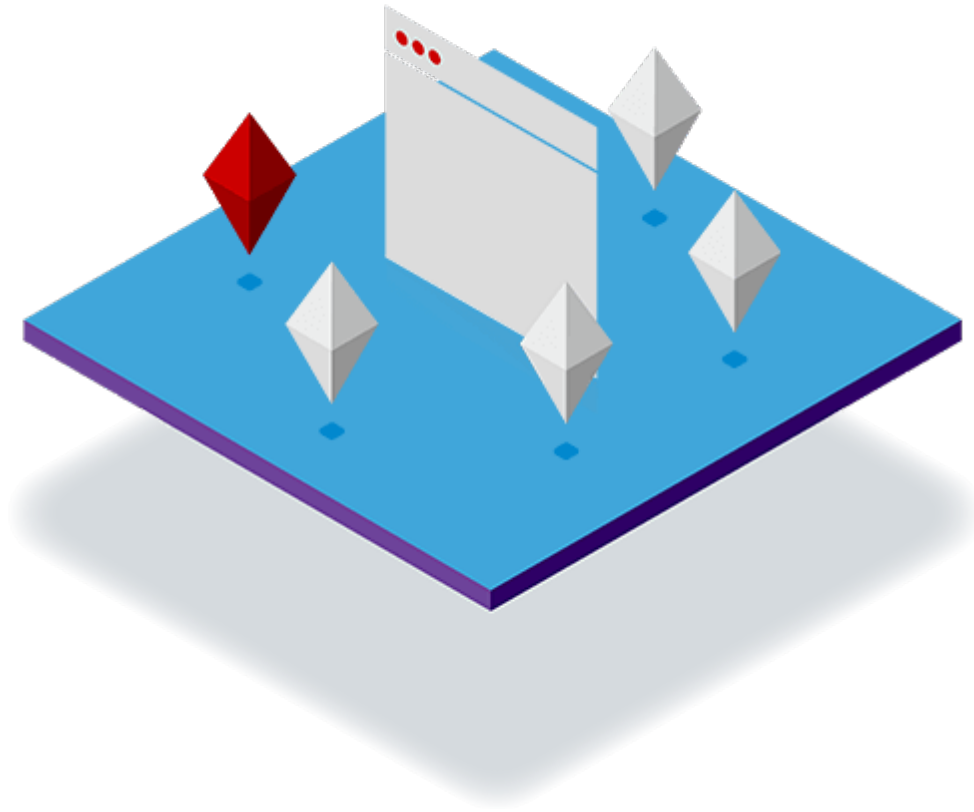
- Covering cloud migration and use strategies in a simple way
- Biggest points covered include
 - 6 R's
 - Containerization
 - Block Storage
 - Cloud Security



Guiding Cloud Migration

Migration Essential Points

- Explaining which microservices and dependencies of SADI can be moved
- Diving more deeply into top cloud migration candidates
 - Jboss
 - SiteMinder
 - Kubernetes





Reflecting & Impact

Reflecting

- Saw how new technologies are pushed forward in the IRS
- Understand the importance of SADI, how it works and intersects with national standards
- Learned a lot about cloud migration processes
- Special thank you to Sudebi, Gopi, and Roger!

Impact

- Technical paper serves as a guiding tool before and throughout the cloud migration process
- Led sessions teaching the team about product management strategies and cloud technologies



Thank you!

Questions?

