



# Shuffle

# Overview



# Introduction

- Shuffle started as a project in mid-2019 to address few automation related problems in the CERT/SIRT community.
- While current automation solutions try to do everything at once; handle tickets, indicators, threat intel and much more in a single platform...
- We focus on building the best solution to fit all your existing tools following the Unix philosophy: **"Do One Thing and Do It Well"**.

# Why Shuffle?

- App Creator
- Workflow Designer
- Standard Workflows and Apps
- Local, hosted, cloud, and Hybrid
- Multi-tenancy and Multi-org
- Multiple environments
- File Storage
- Key-value Store
- Encrypted Authentication storage
- Built-in Documentation
- Triggers of all kinds
- SSO and MFA
- Essentially, one-stop shop for ALL your automation needs.





# App Creator

- Our app creator is how we can promise to build apps within hours and days, rather than weeks.
- It's an easy to use yet powerful way to easily interact with other platforms' API's. It allows for app creation based on Swagger / OpenAPI, and can handle authentication for any HTTP method.



Generate from  
Documentation

FROM SCRATCH



# Workflow Designer

- Our workflow designer is the part of Shuffle that makes it all fit together.
- Together with the App creator and our default apps (HTTP & Shuffle Toolbox), it gives you access to unlimited automation possibilities, ensuring anyone can learn to automate anything with just a few hours of practice.



# Standard Workflows & Apps

- Shuffle comes pre-packaged with a large amount of apps and workflows, making it both easy to use & extend.
- This, together with our Marketplace is what will bring security to new heights.

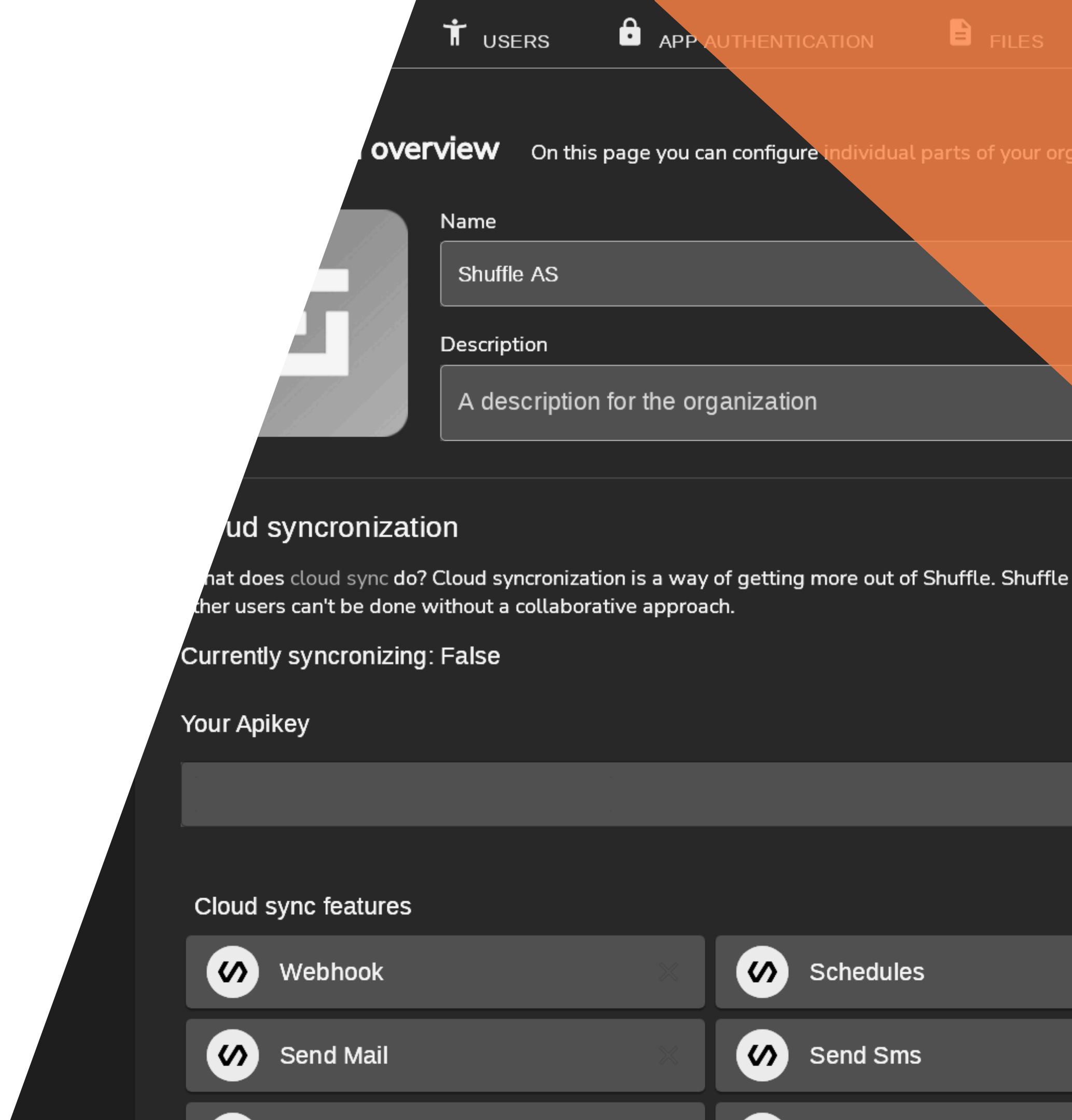


# Hosting

Shuffle can be:

- Local
- Hosted
- Cloud
- Hybrid

More on this [here](#).



# Multi-tenancy and Multi-org

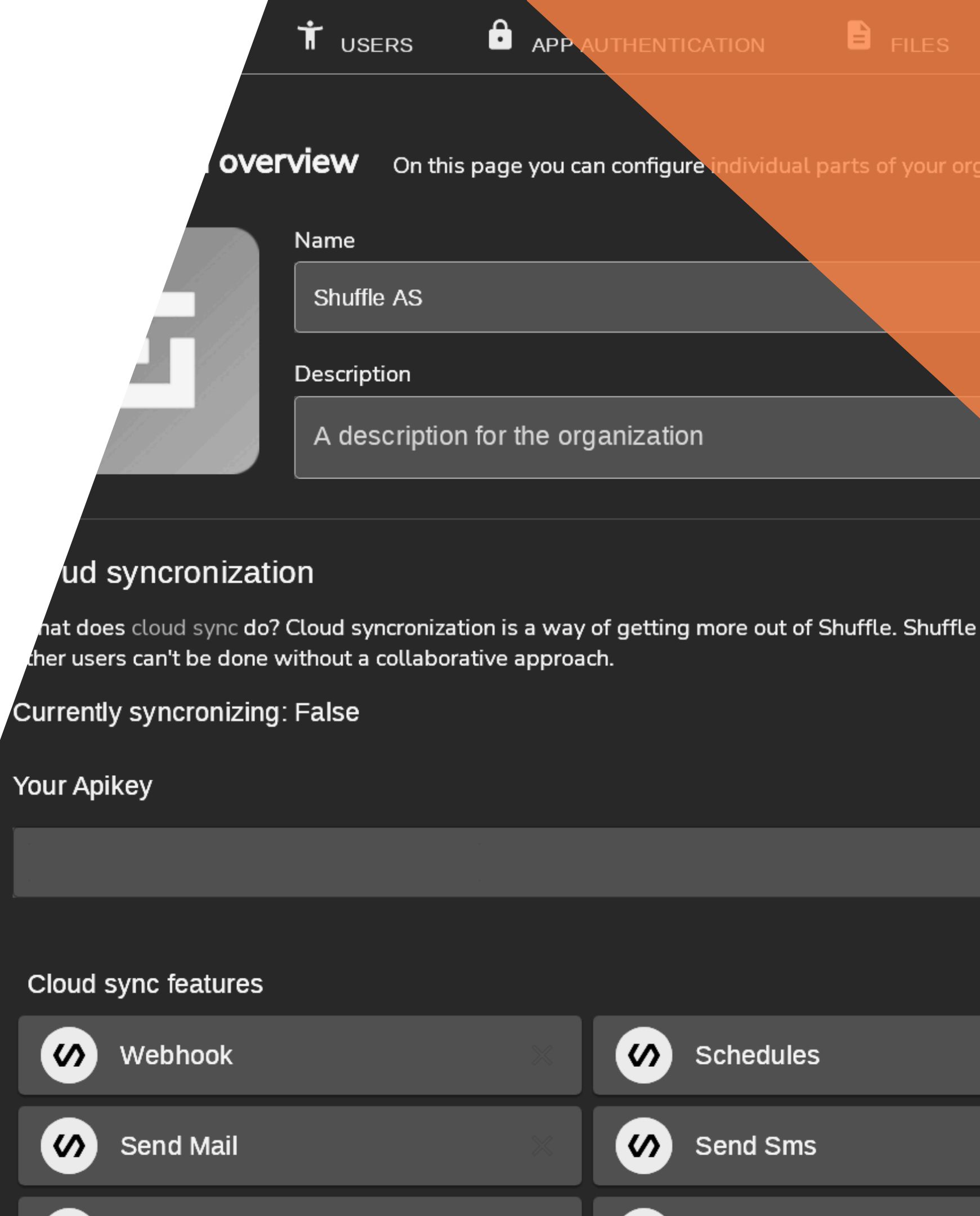
- Shuffle allows for a user to have multiple organizations associated with a user and vice versa.
- Shuffle is further extended for MSSP's needs, allowing for Sub-organizations to be controlled from a Parent-organization.





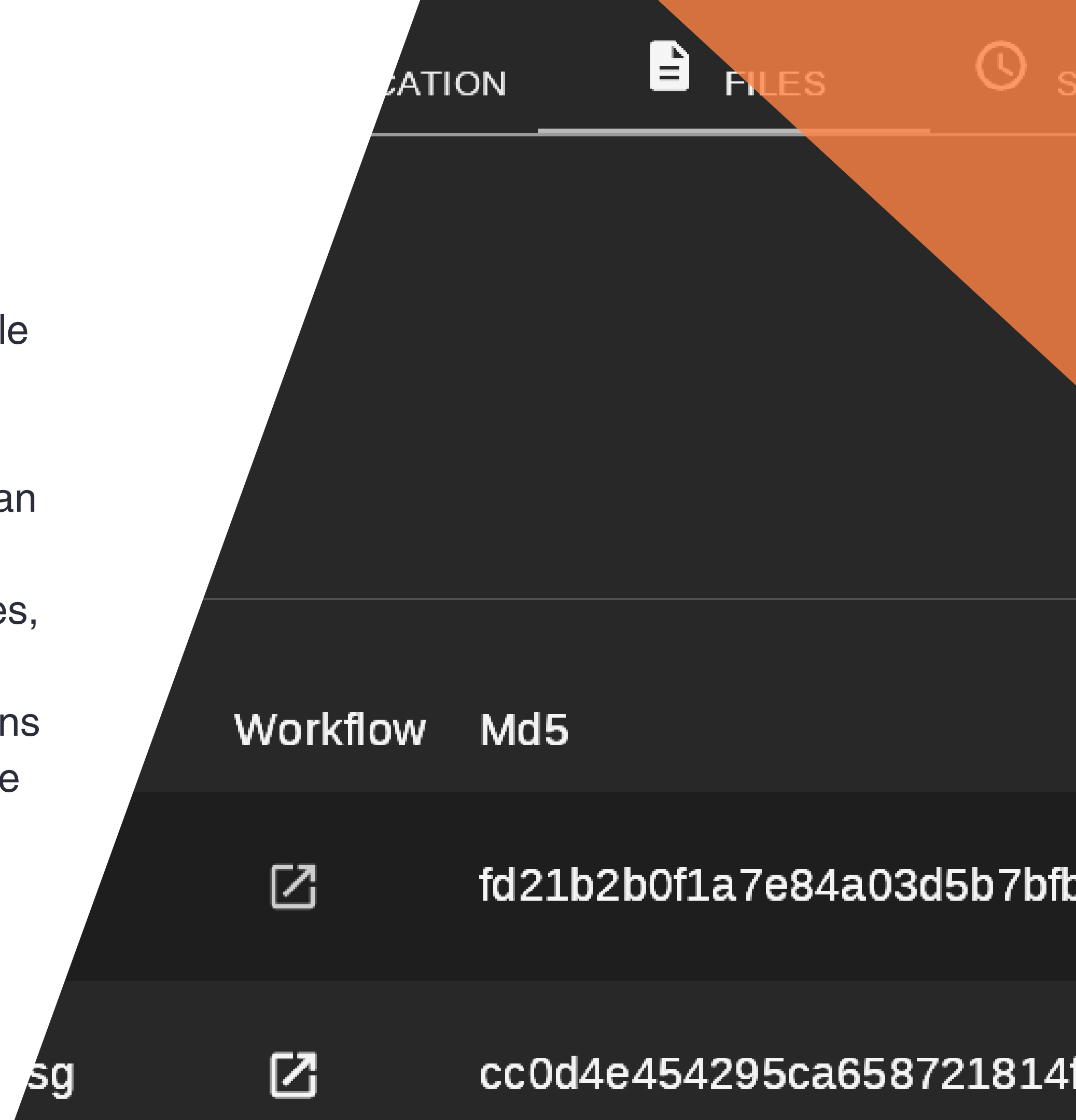
# Multiple Environments

- Have multiple datacenters with physical barriers for connections? No problem.
- We've built a way for a single workflow to run scripts in multiple locations.
- Environments are divided by Organization, but still allowing for resource sharing if necessary.



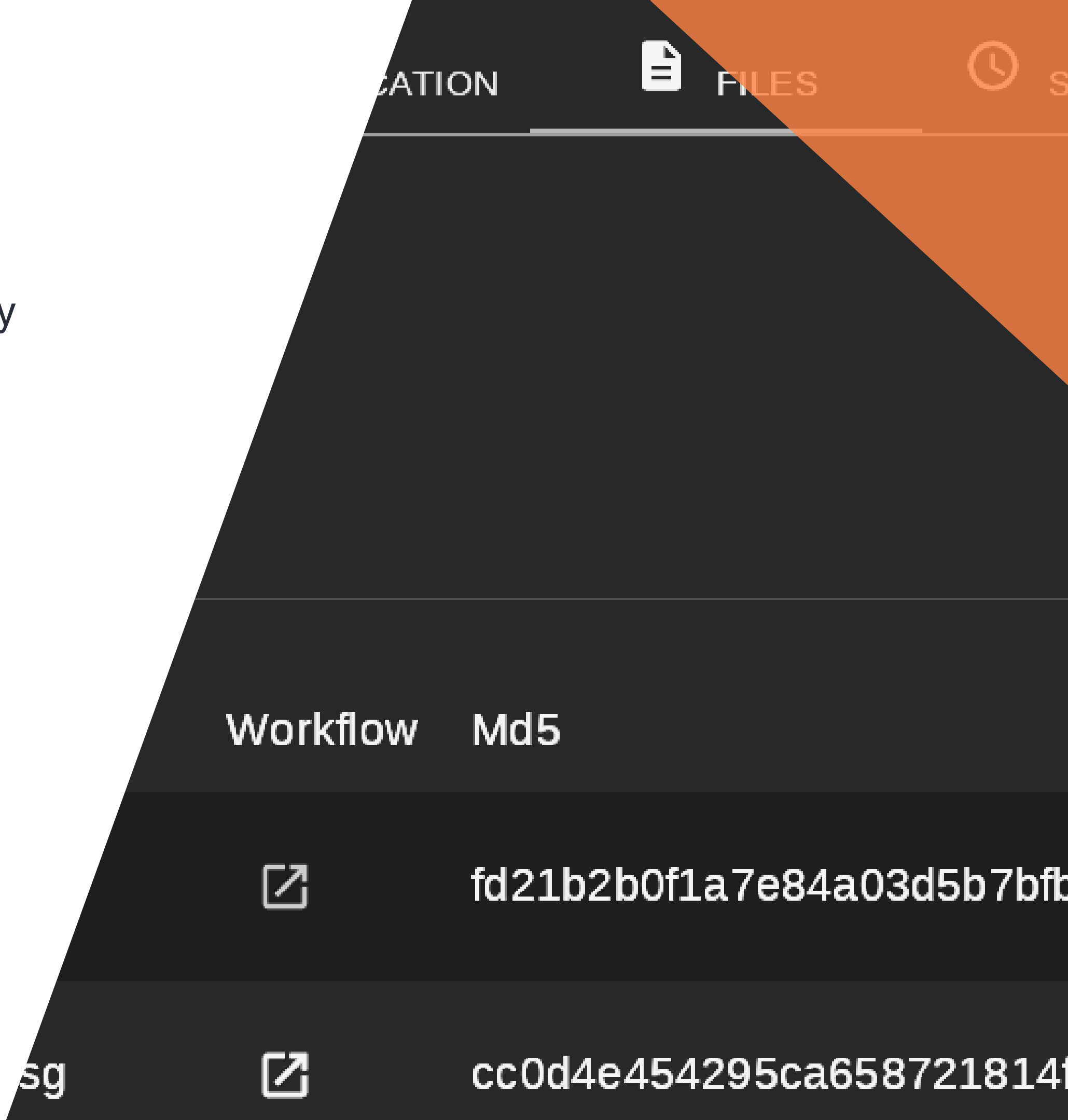
# File Storage

- What is a security system that can't handle files? That's why we can.
- If you want to connect Shuffle to your favorite sandbox, or upload and analyze an email with Yara - we can do it all.
- Want more? We also support namespaces, allowing for the download of a full namespace as a single bundle. This means you can control all your rules from a single place.



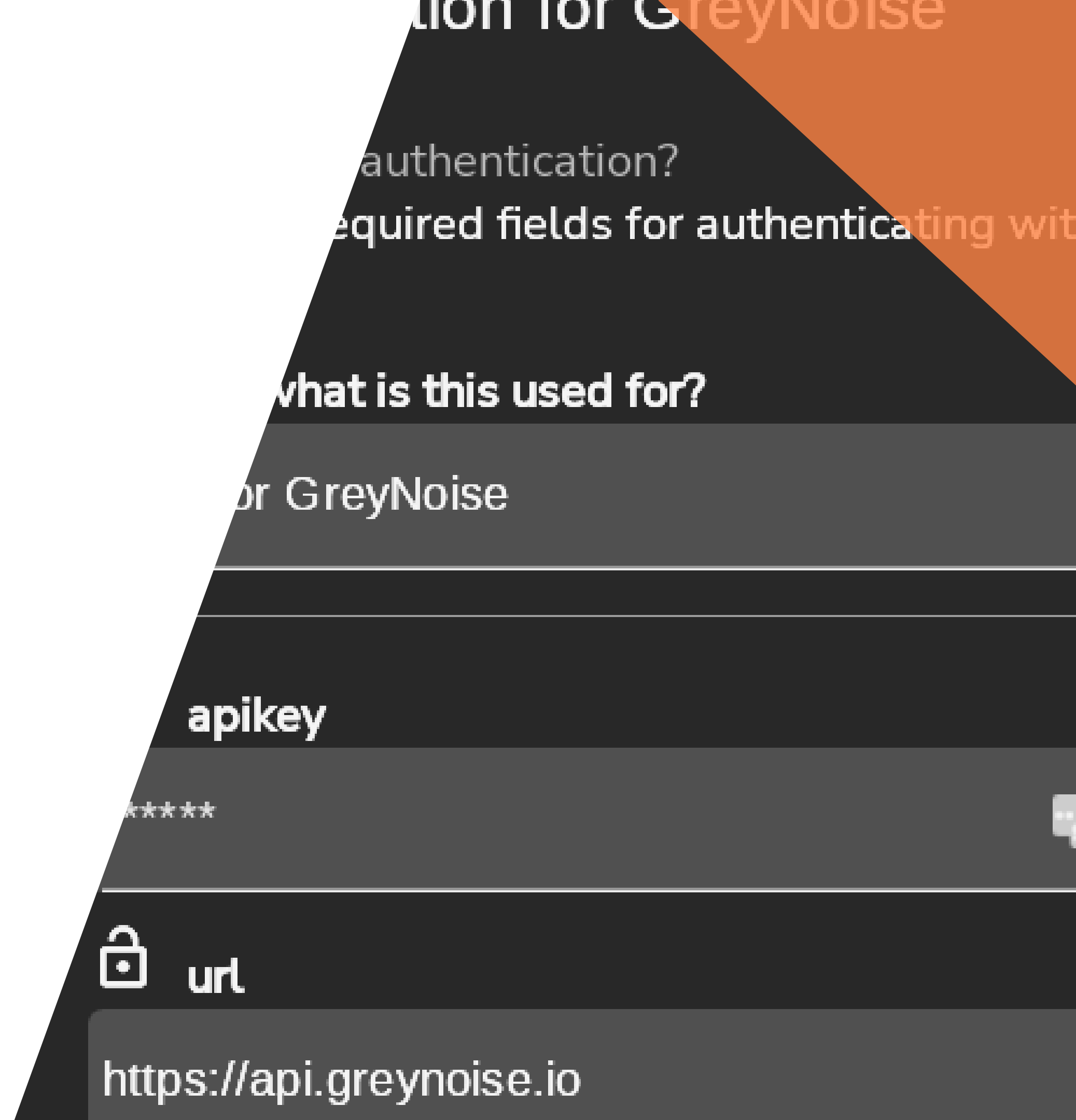
# Key Value Store

- We've extended Shuffle with the possibility of storing data for all your needs. This is called the "**Shuffle Cache**" and can be used for Pagination, timestamp management, IOC lists and anything else you want.
- And not to worry, this is permanent storage if you want it.
- And, it's easy to use, and accessing the data can be done directly from `$shuffle_cache`.



# Encrypted Authentication Storage

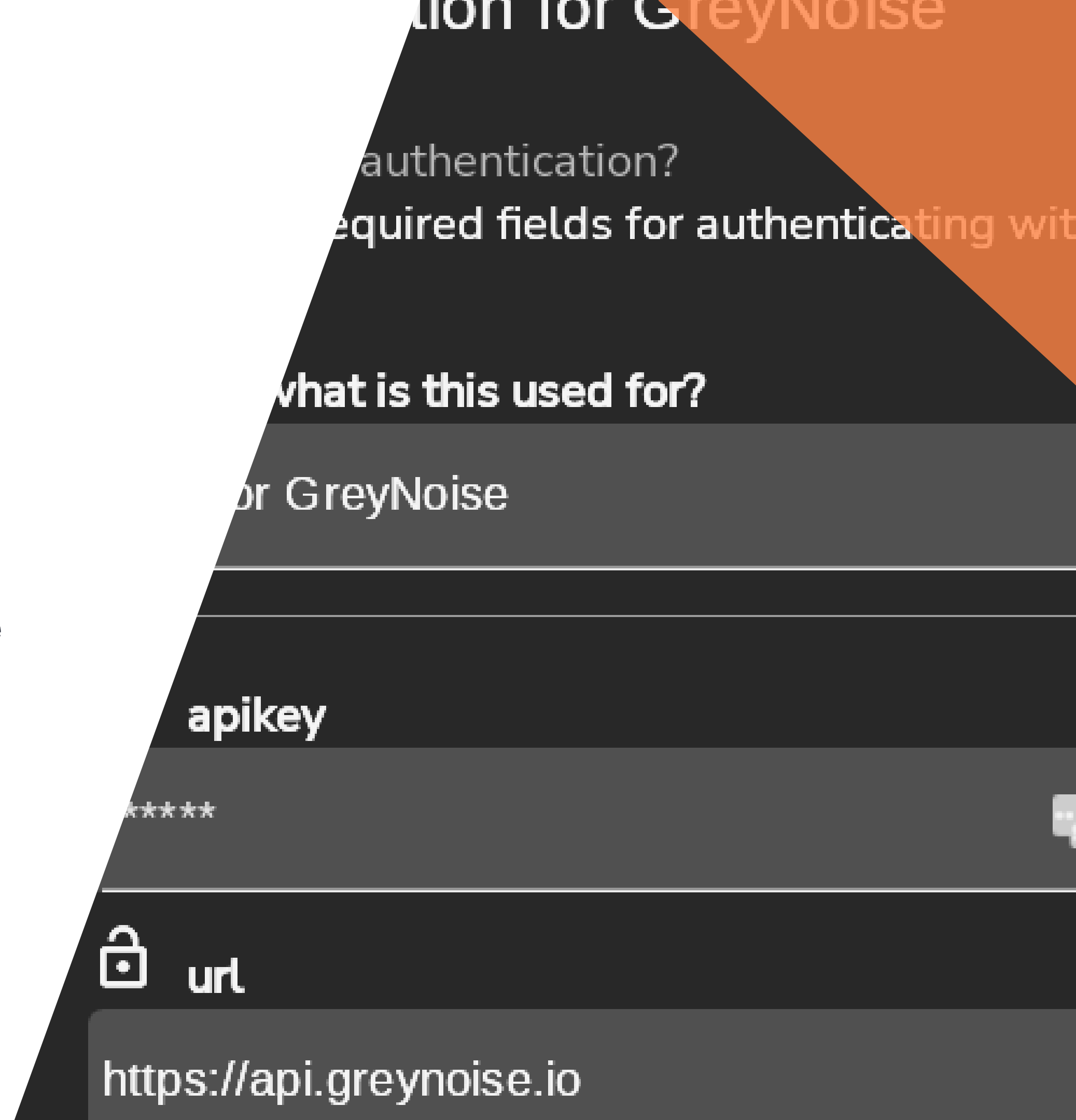
- Having a good storage solution isn't enough. What if the server itself gets breached? Well...
- All your data is safely encrypted, and decrypted ONLY in real time for an app that needs to use them.





# Built-in Documentation

- What is a system that isn't documented well? A not so useful system.
- That's why we've ensured that our apps get documented, which is available at the click of a button from within the Workflow UI - right next to the authentication process.



# Triggers of all kinds

Shuffle has:

- **Webhooks:** Allows any outside source to send data in real time to Shuffle.
- **Schedules:** Makes it possible to start a workflow on a schedule
- **Subflows:** Want to run another Workflow from within your current one? This does that exactly.
- **User Input:** Starting or continuing an action based on what a user decides



# SSO and MFA

- SSO and other required authentication mechanisms are already in play, and available to anyone who wants to use them rather than normal sign-in.
- They include (but not limited to):
  - Okta
  - Auth0
  - PingID
  - AzureAD



name

name@example.com

password

\*\*\*\*\*

SUBMIT

Or

USE SSO

# Bonus: Developmental AI

- We're developing technology to allow for apps and workflows to be built based on text.
- Using GPT-4, we can make it even easier for anyone to automate long-term.
- This is available for testing at <https://shuffler.io/chat> and will be open sourced soon.



name

name@example.com

password

\*\*\*\*\*

SUBMIT

Or

USE SSO





**One stop shop for all your  
automation and security needs.**