Using Lambda with 3rd Party APIs

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Outline

Preparing

- Determine functionality

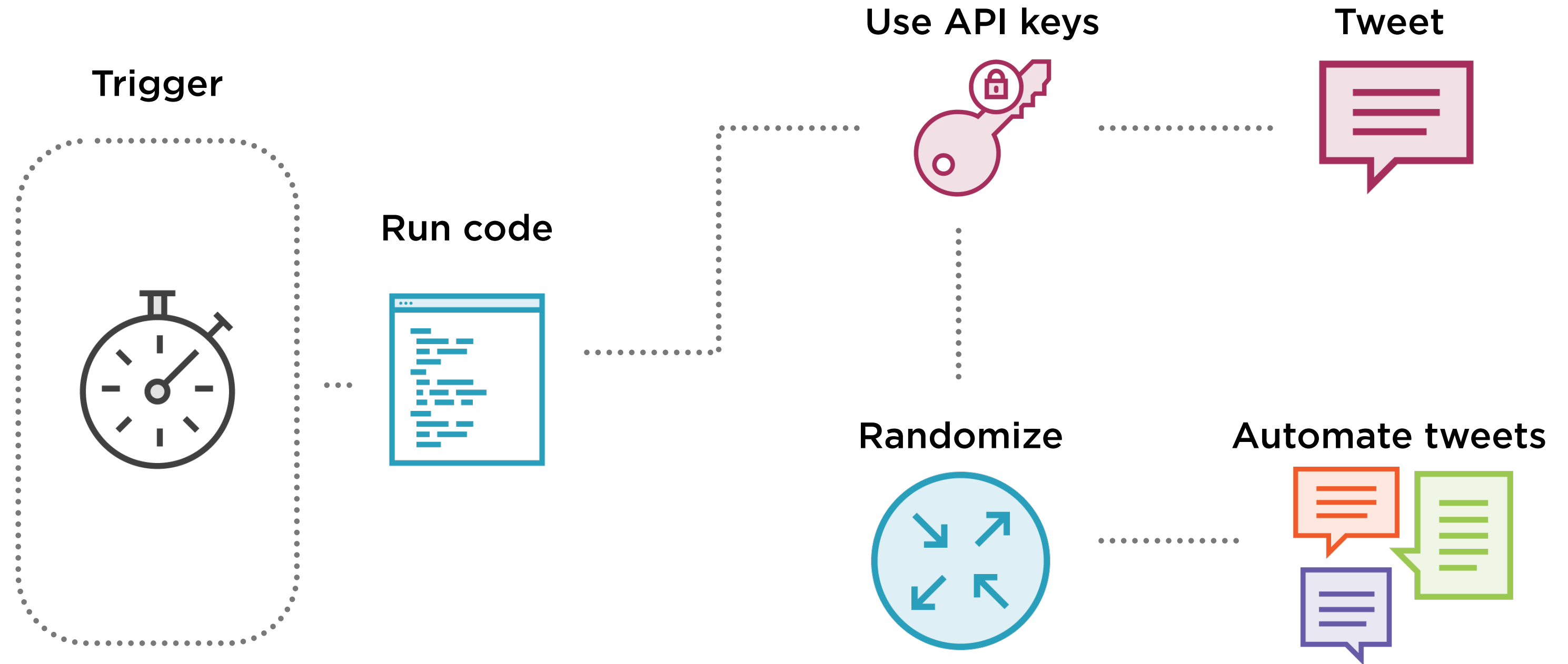- Gather credentials & libraries

- API key management with SSM

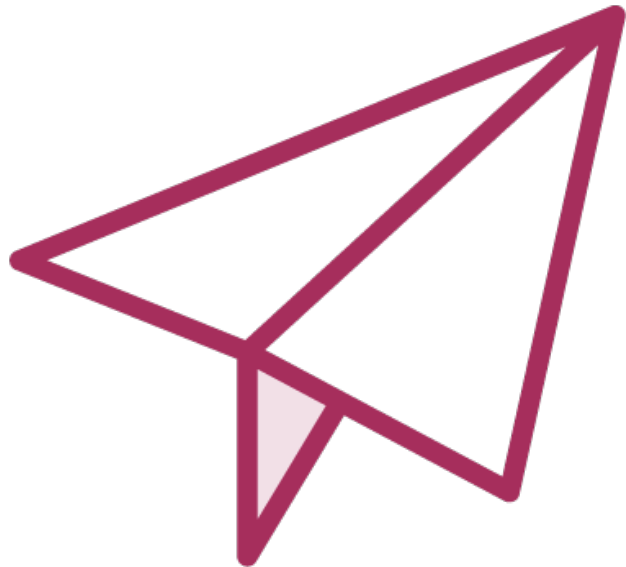**Write and Test Our Function**

- Modify a bot skeleton

- Test locally

Deploying Our Bot

- Creating a function package

- Configuration and deployment

Determine Functionality - Twitter Bot

Trigger

Run code

Use API keys

Tweet

Randomize

Automate tweets

Credentials and Libraries

Sparrow Twitter bot shell

Twython

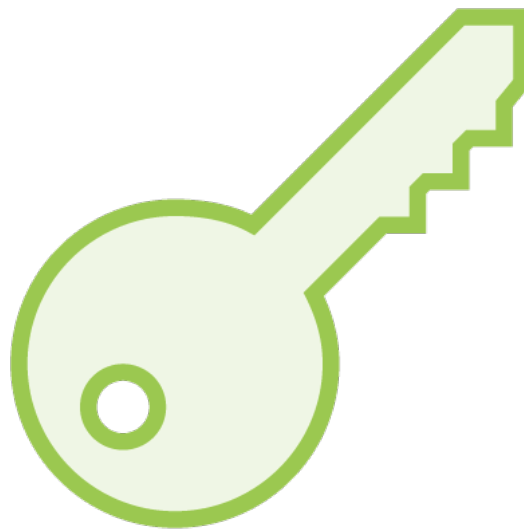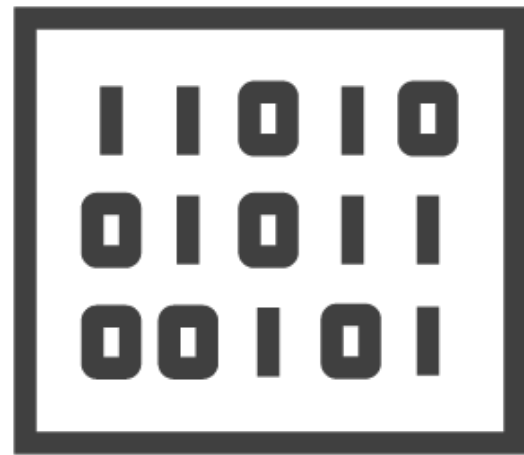**Twitter API keys**

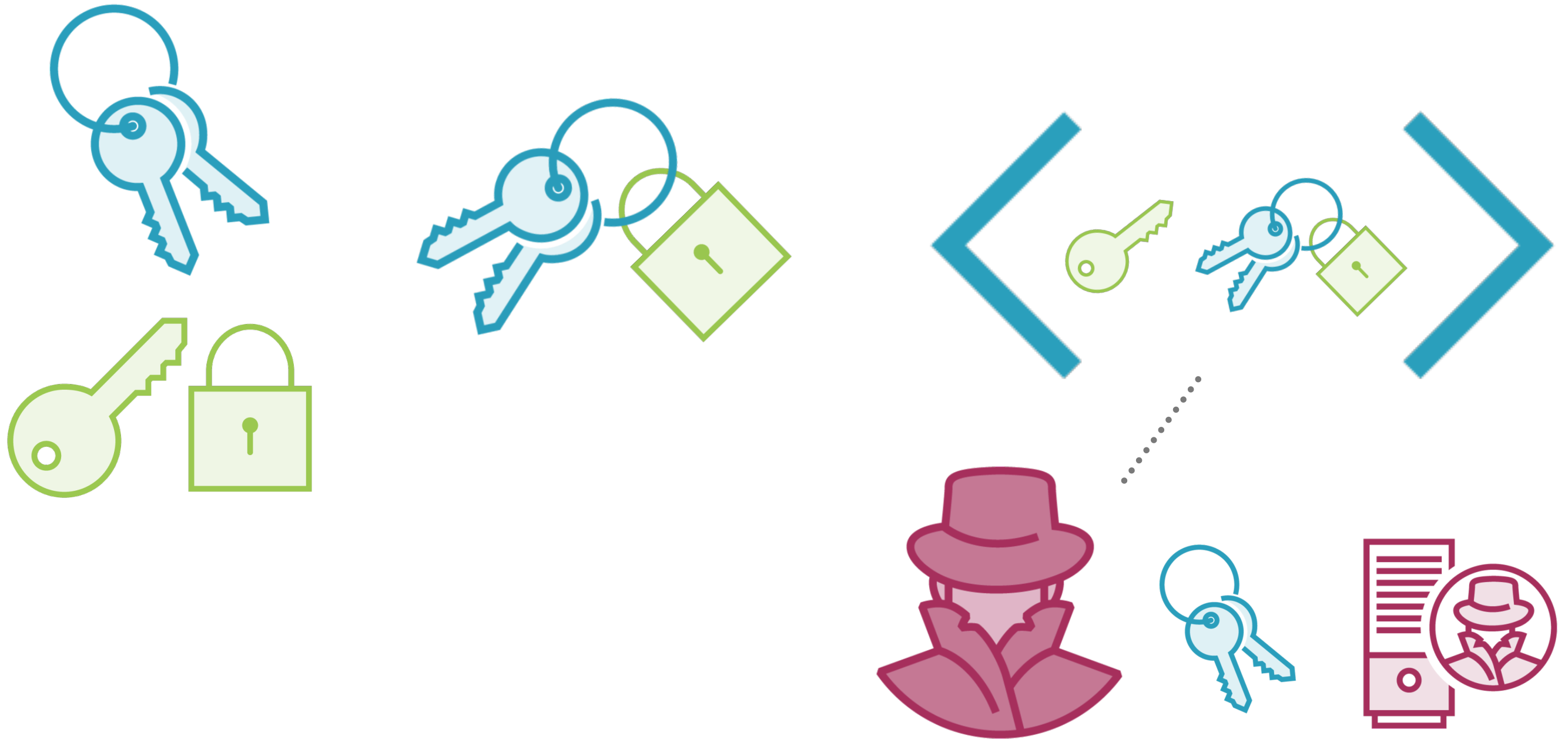# API Key Management Options

**AWS Systems Manager
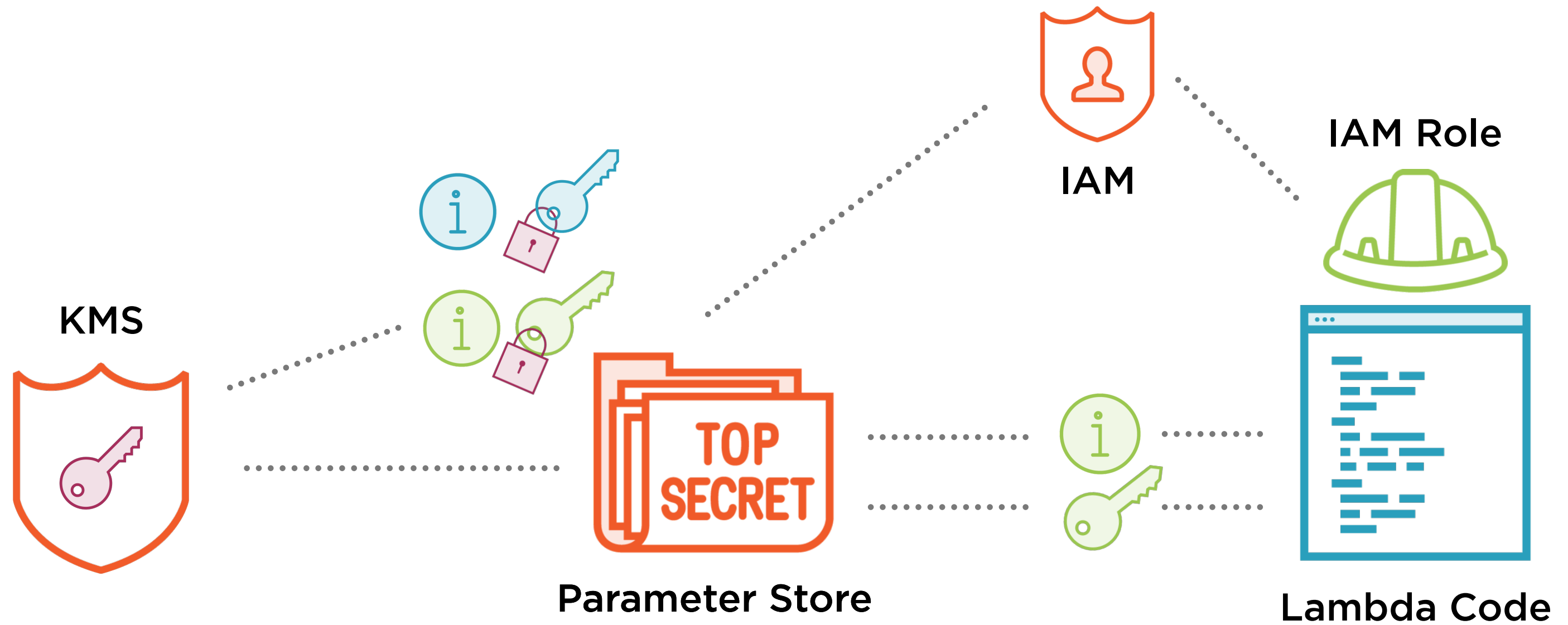Parameter Store**

**AWS Key Management Service
(KMS)**

Data Encryption

Key Encryption

Parameter Store and KMS

Demo

Preparing

- Get a Twitter account and API keys

- Setup Twython and Sparrow

Write Our Function

- Modify the Sparrow skeleton

- Test locally

Deploying Our Bot

- Creating a function package

- Triggers and configuration

Summary

What we've done

- Used an API with Lambda

- Deployed a function package

- Used libraries in our function

- Securely managed encrypted API keys

What's next?

- Lambda and other AWS services