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Building Smarter Playbooks Faster

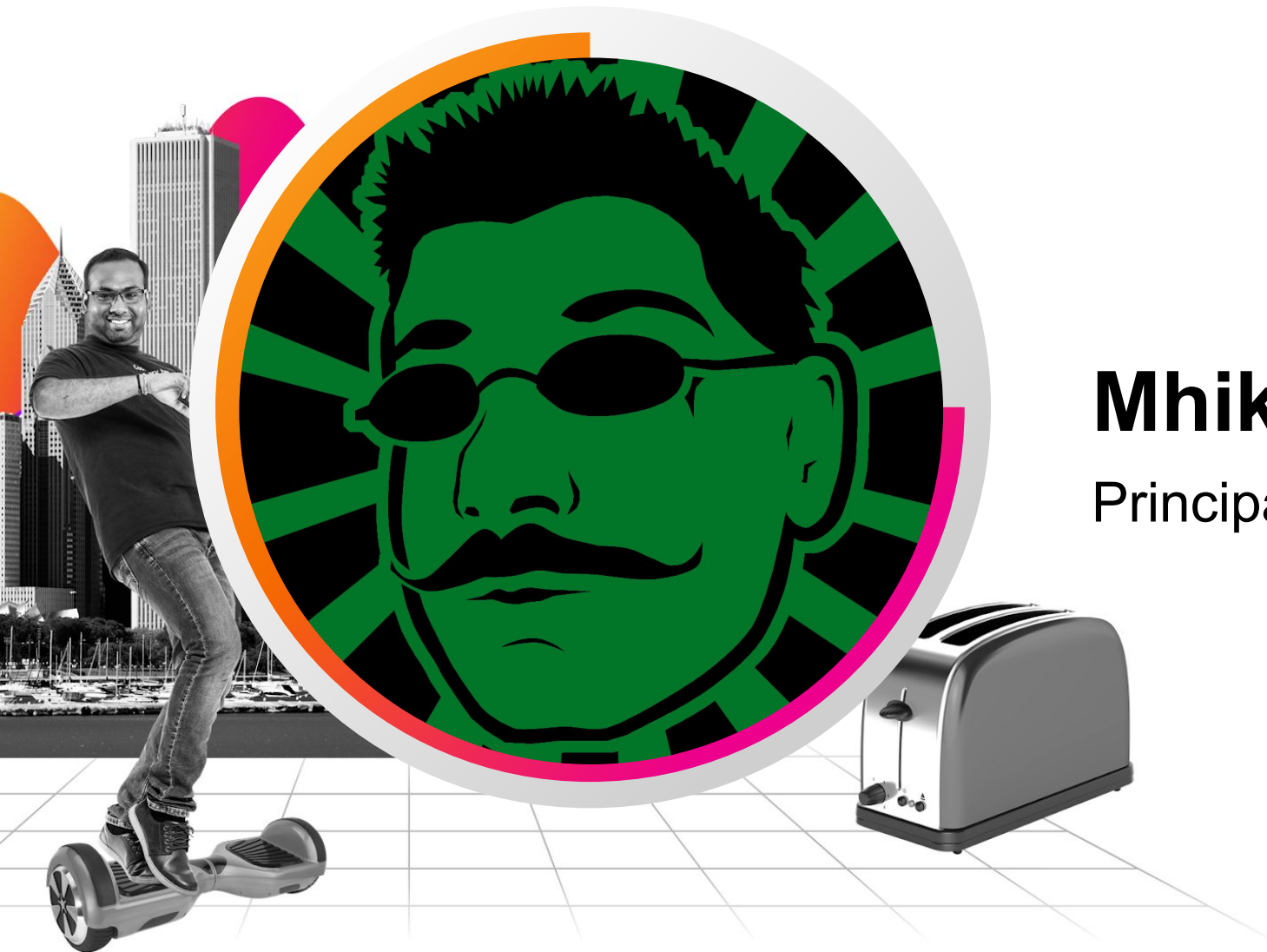
SEC1216B

Mhike Funderburk

Principal Security Engineer | Stage 2 Security



splunk> .conf22



Mhike Funderburk

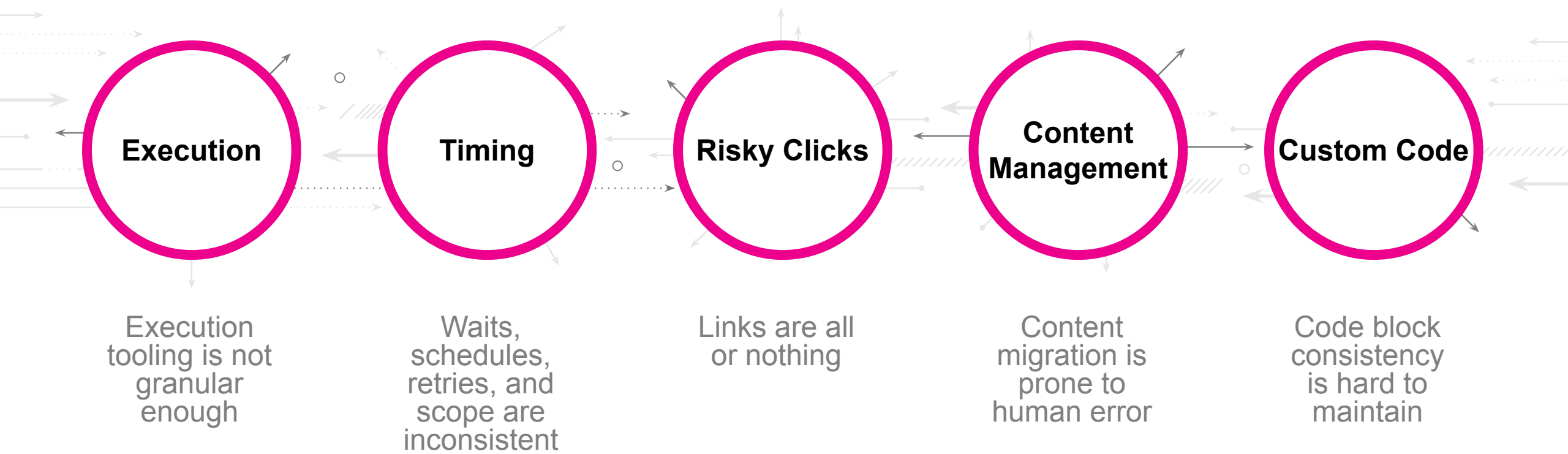
Principal Security Engineer | **S2** **STAGE 2**
SECURITY



Mhike Funderburk

Principal Security Engineer | **S2** **STAGE 2**
SECURITY

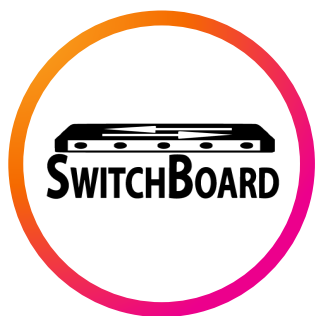
Playbooks can be Challenging



“Quality of Life” Apps

Making a difference with custom apps... mostly

Switchboard



Intelligent
Playbook
Execution

Runner



Manage Tailored
Waits and
Execution

Link



Create Easy,
Visible, and Safe
Links

Exodus

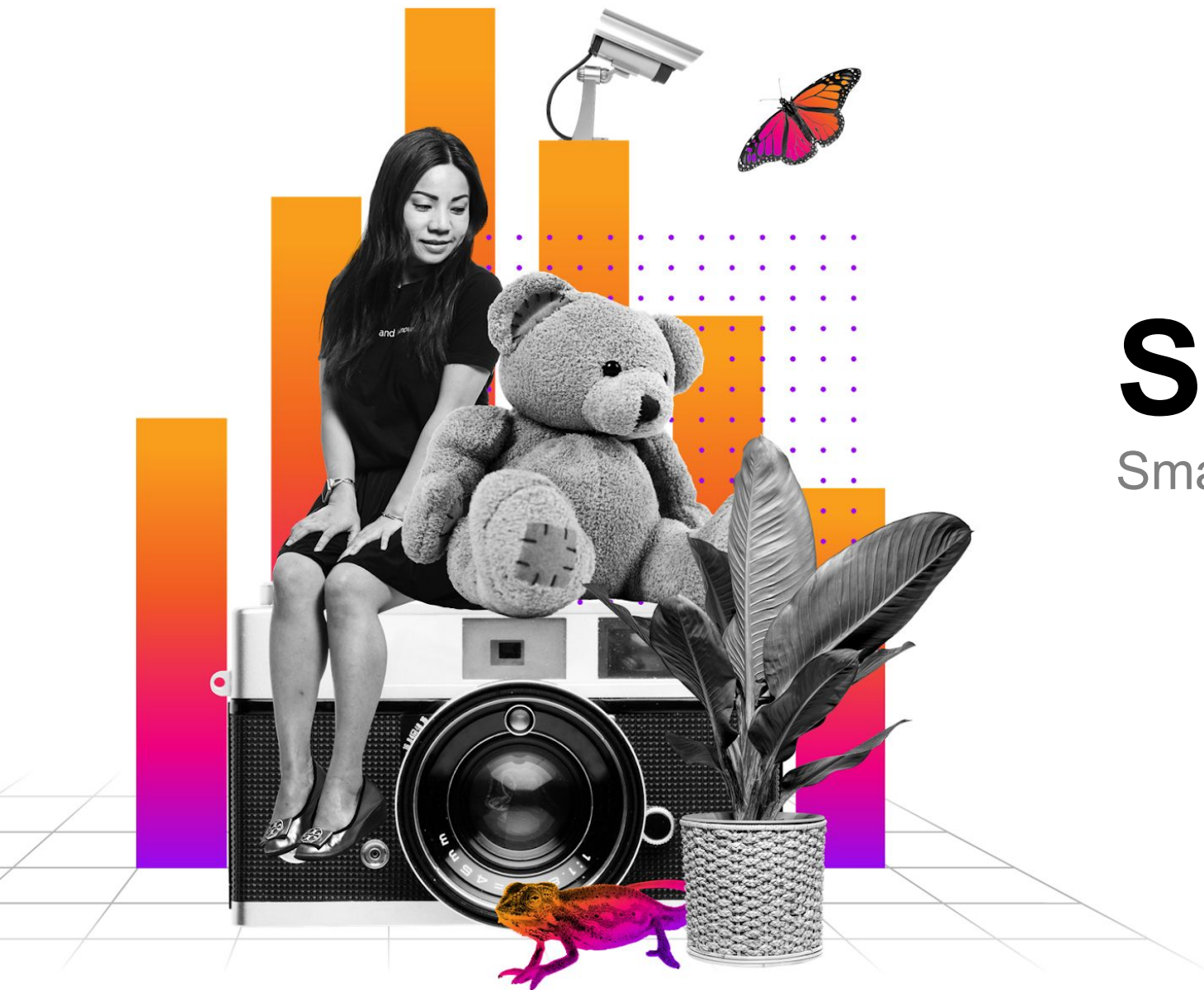


Migrate Content
Between
Systems With
Approvals

Gettin Janky With It



Importing Custom
Functions Into
Code



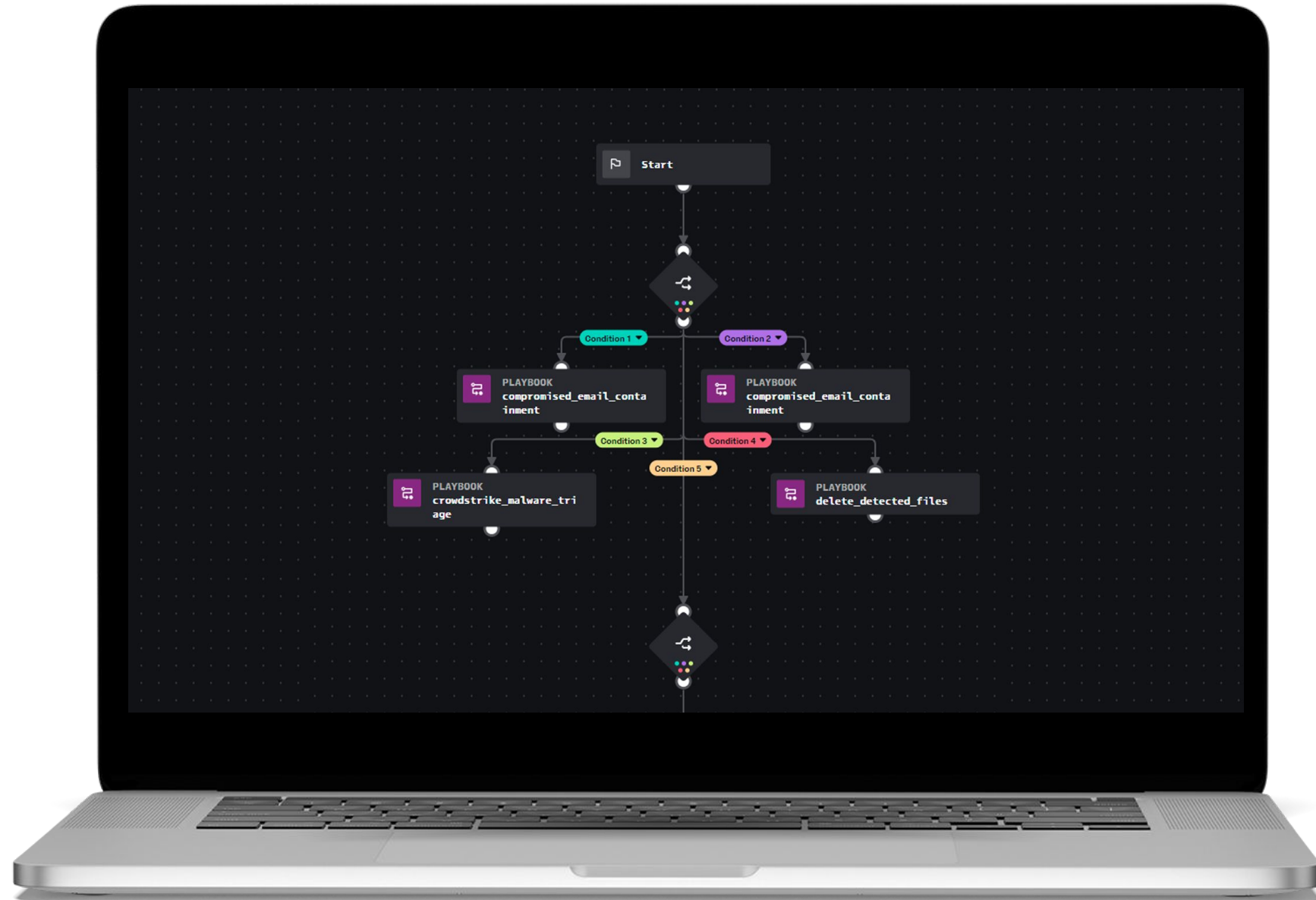
Switchboard

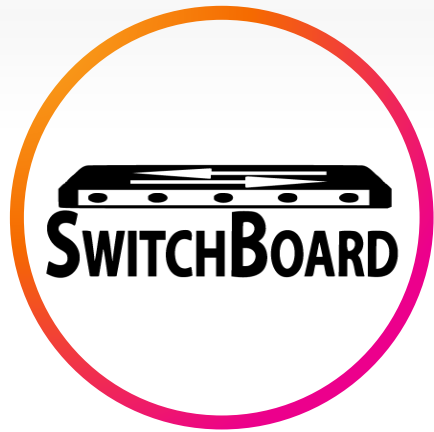
Smarter Execution

splunk> .conf22

Our First Attempt

- Scales poorly
- Difficult to manage
- Easy to break



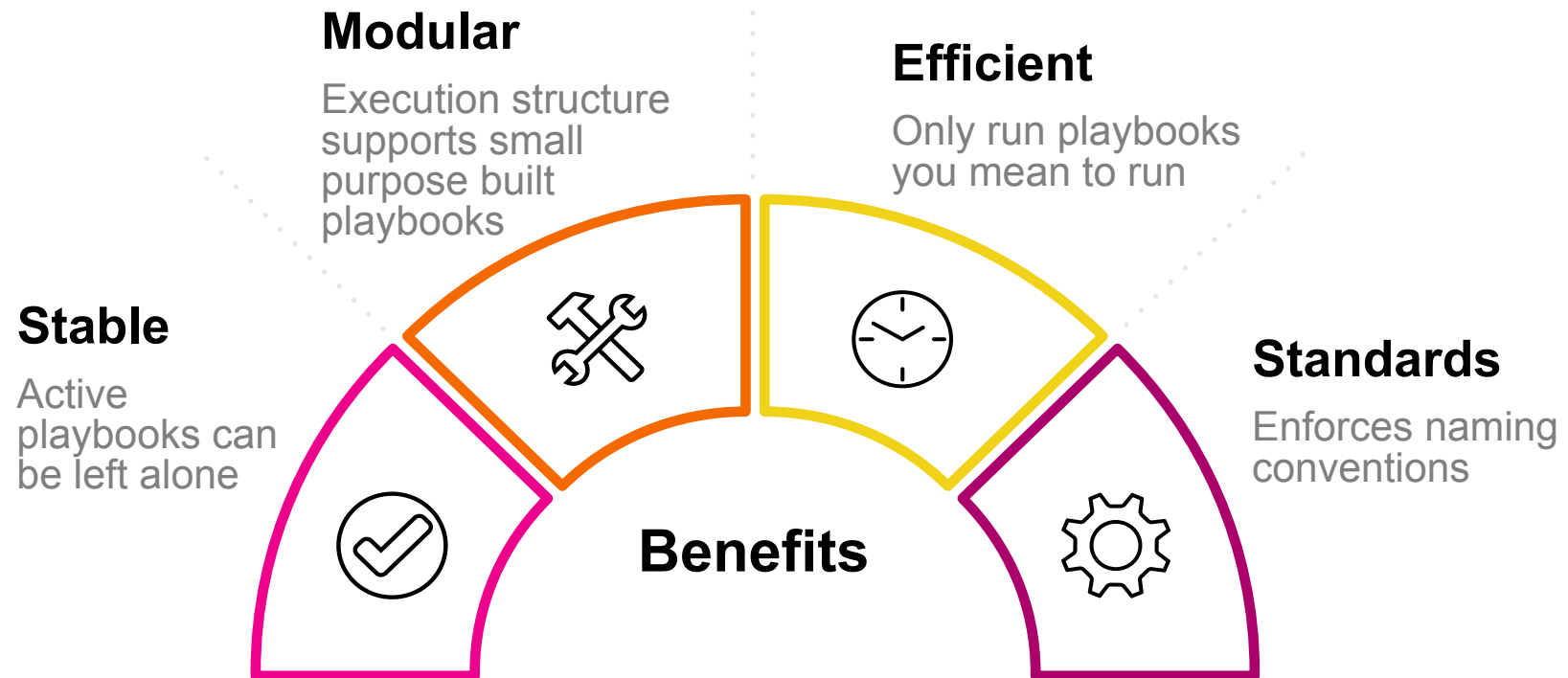


Switchboard

Running playbooks
intentionally

Execute Playbooks By Type

- **Rule:** For matching correlation rule names
- **Product:** For matching product categories
- **Subject:** For matching substrings of rules for more generic matching
- **Field:** For matching when a given field exists



← ACTION
run playbooks · Switchboard

Configure Info

Asset

switchboard

INPUTS

rule_name* ⓘ

filtered-data:notable_filter:condition_1:artifact:*c >

product_name ⓘ

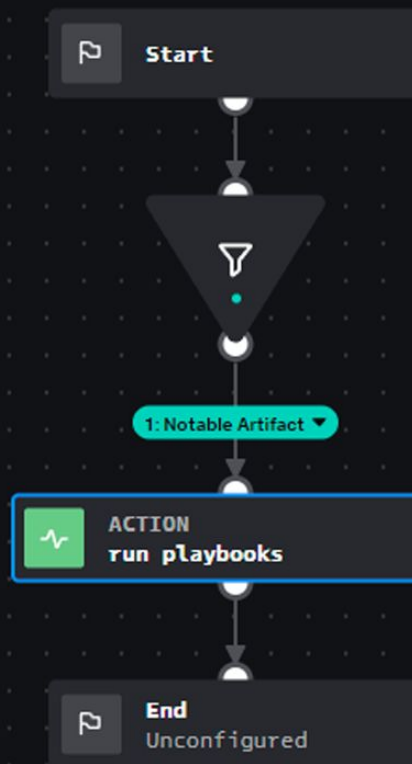
filtered-data:notable_filter:condition_1:artifact:*c >

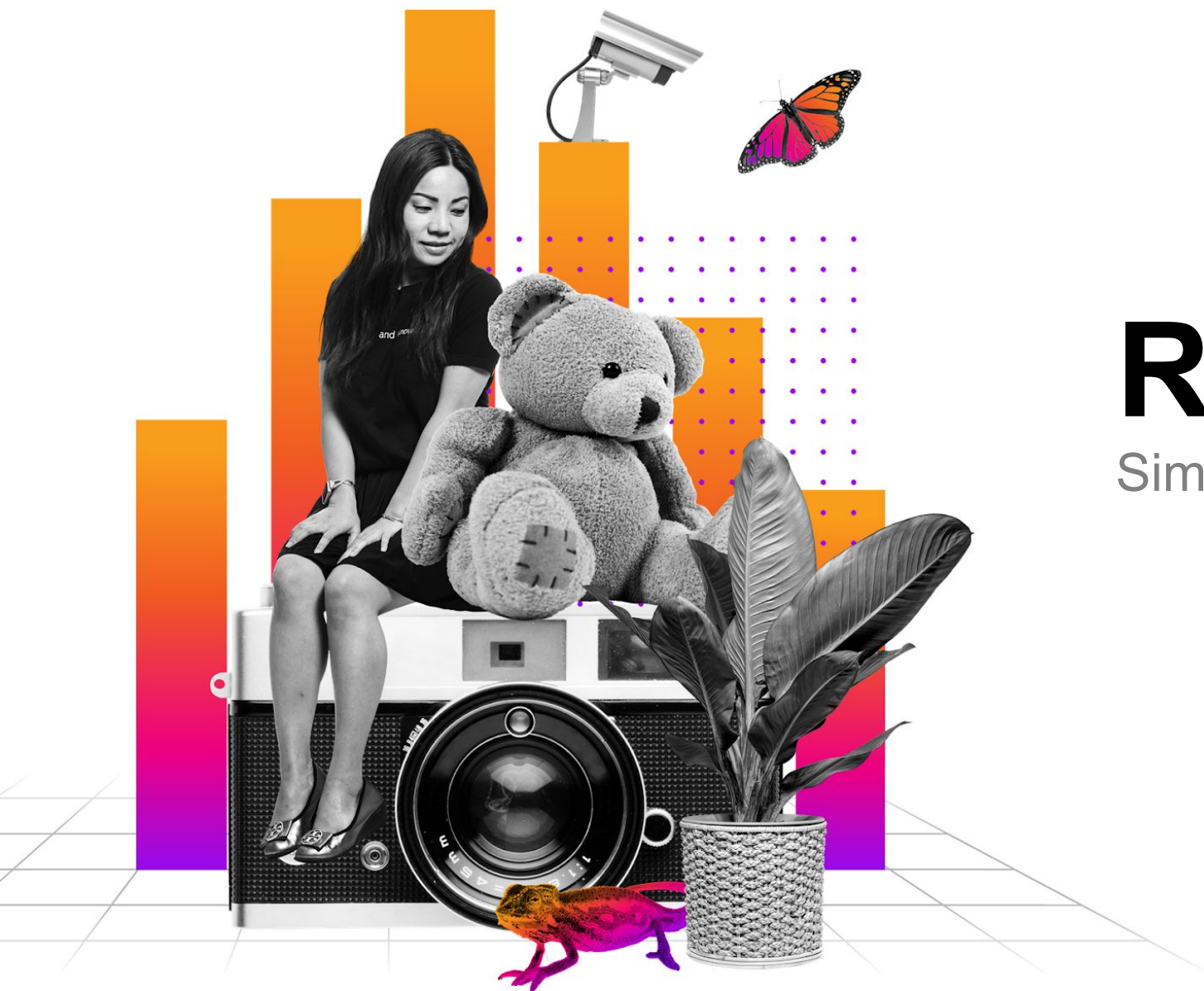
repository_name* ⓘ

local >

> ADVANCED

Done





Runner

Simplified Timing

splunk>

.conf22



Runner

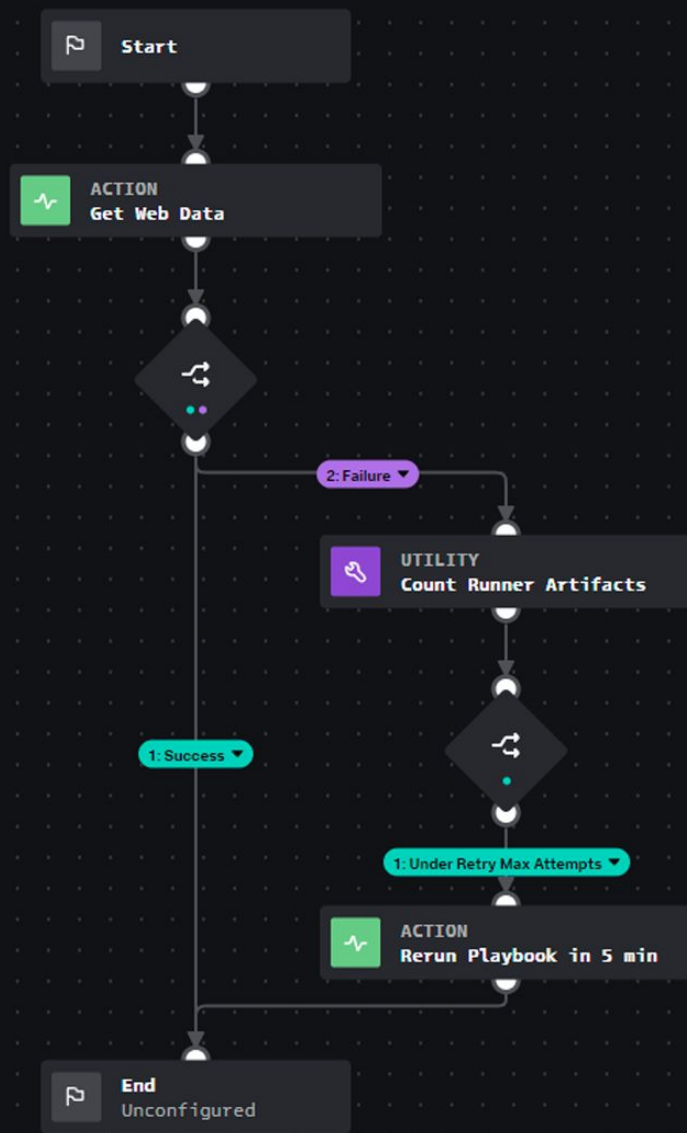
Delays, Retries,
and Artifact Scope
Made Easy

Delays and Retries

- Drops an artifact with state, reason, and time
- Executes with on poll so doesn't distract from the normal playbook thread processing
- Can be static or random wait
- Number of playbooks executed per poll is configurable

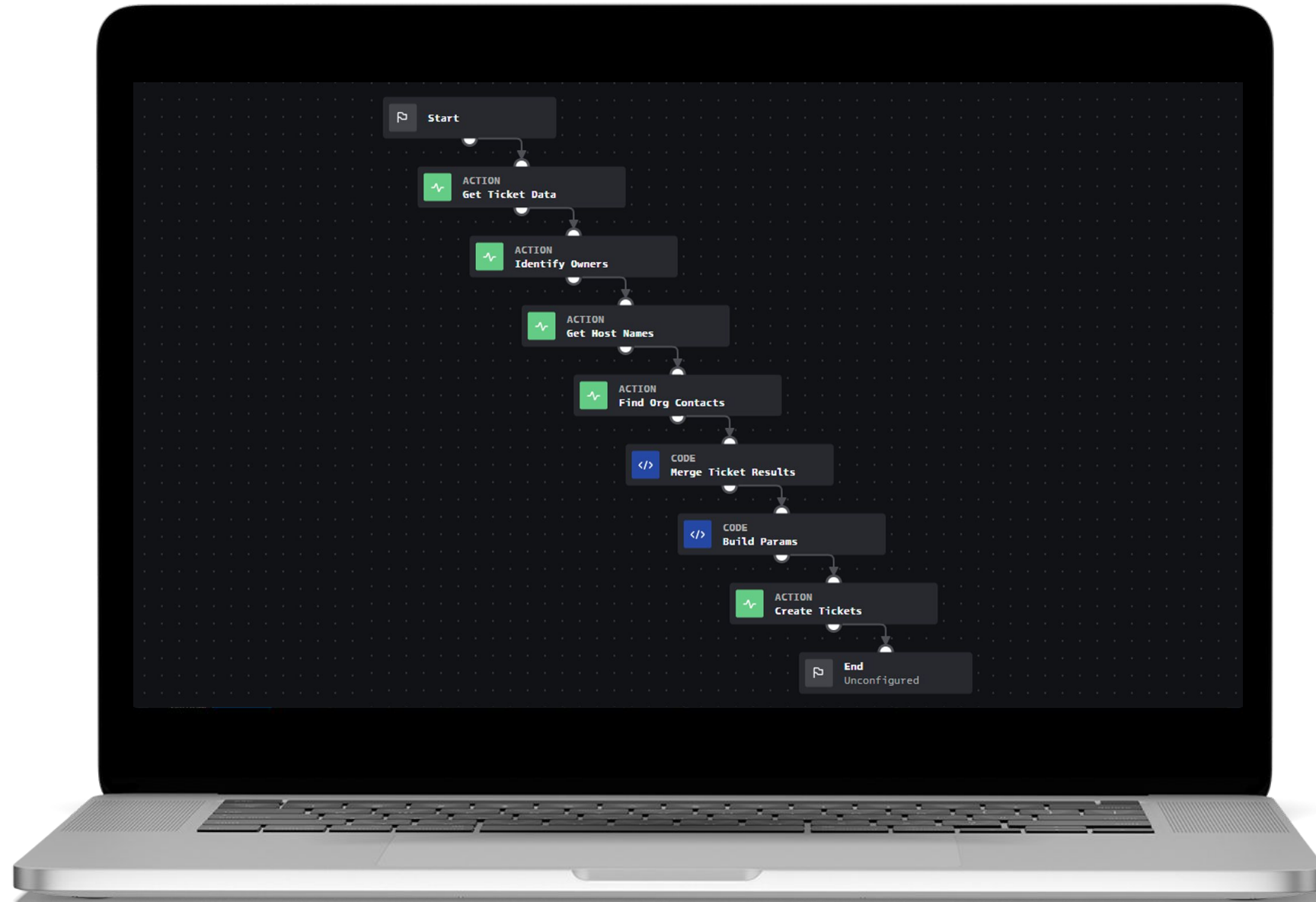
Artifact Scope

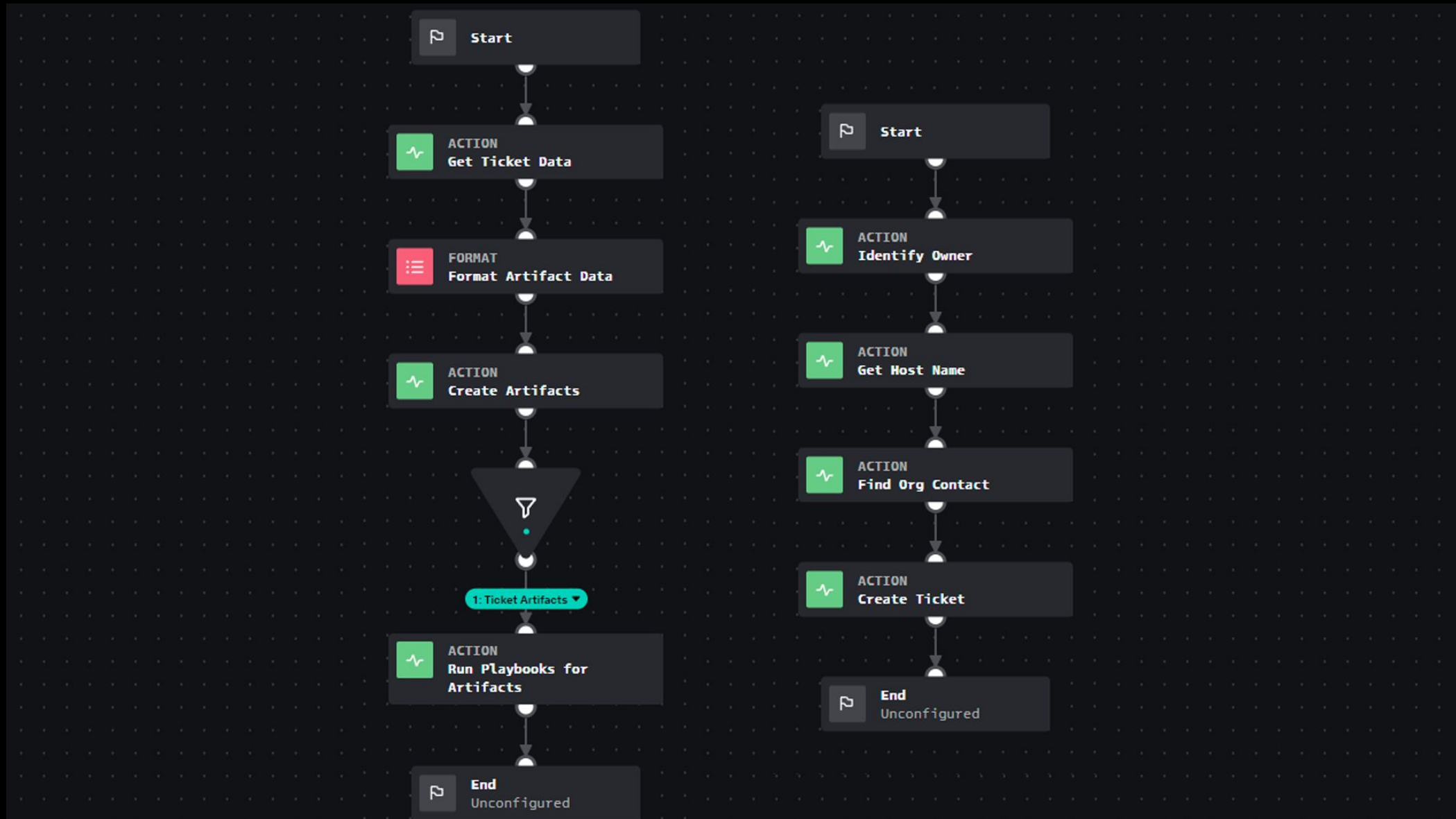
- Processes like ticket creation that require stitching data together can be difficult with multiple tickets
- Executing each artifact ticket with single artifact scope allows for a faster simpler playbook
- Less custom code to work through and maintain

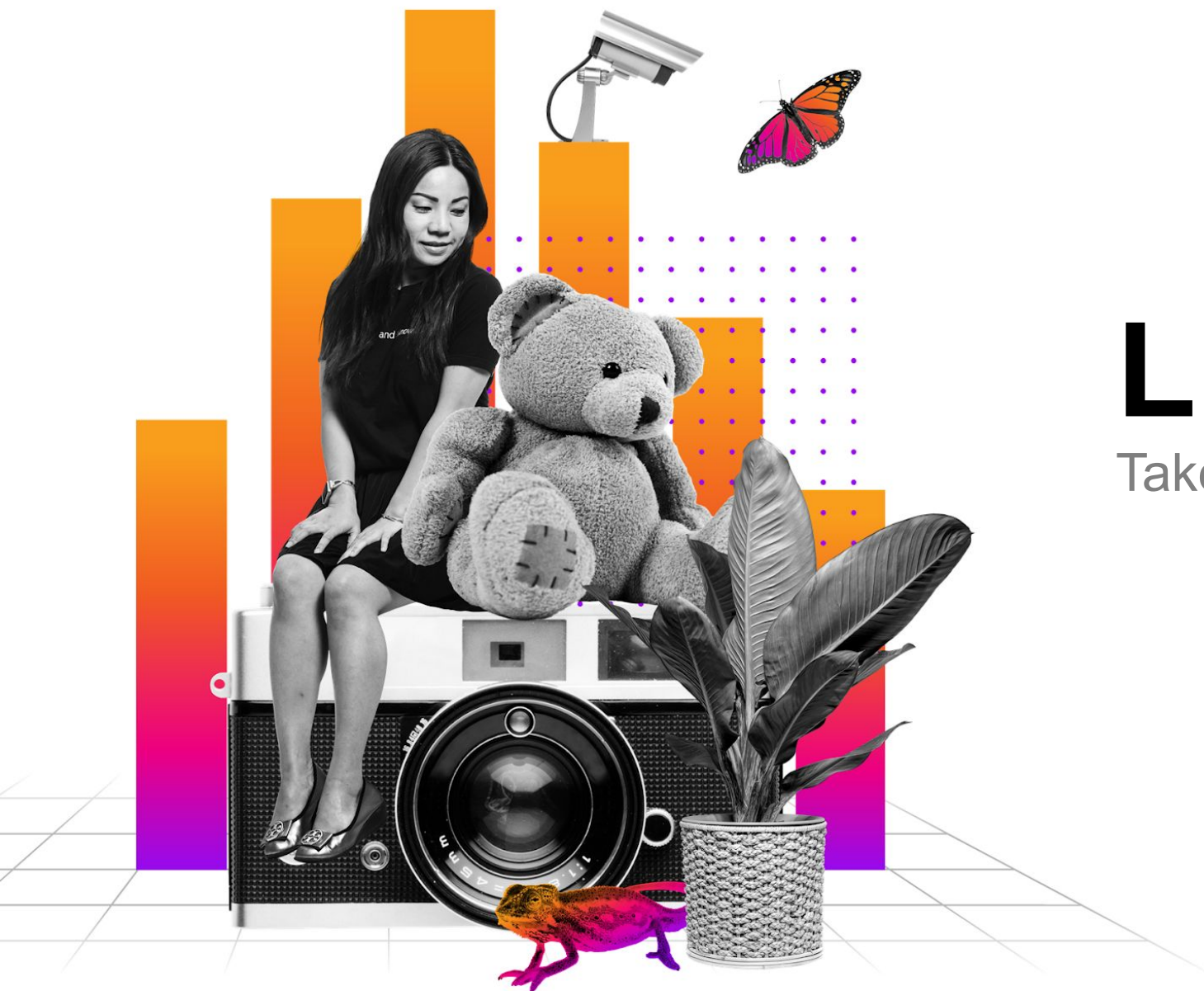


Data Stitching

- Difficult to handle individual failures
- Code blocks are complex
- List order operations can be complicated to manage







Link

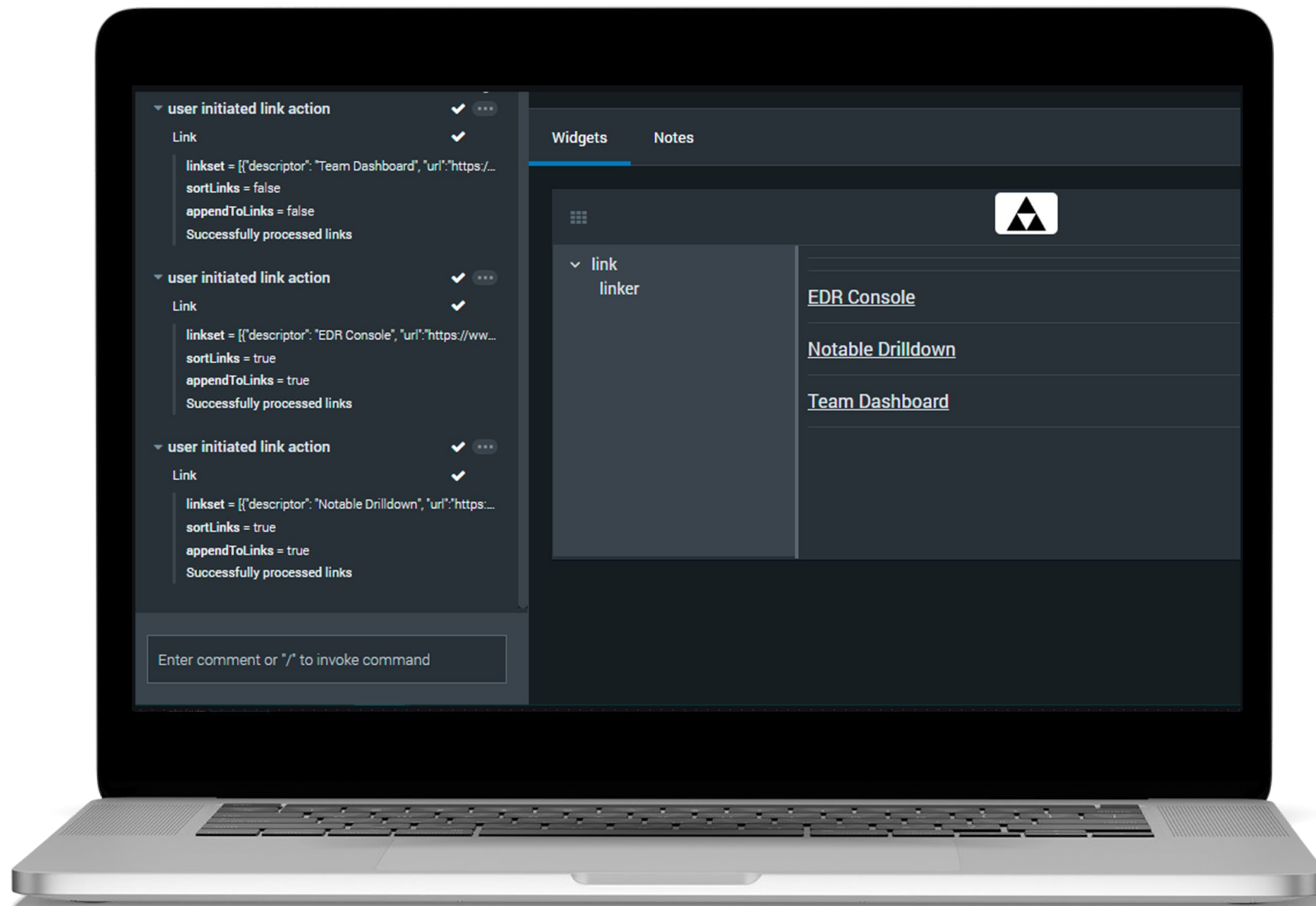
Take the Risk Out of Clicks

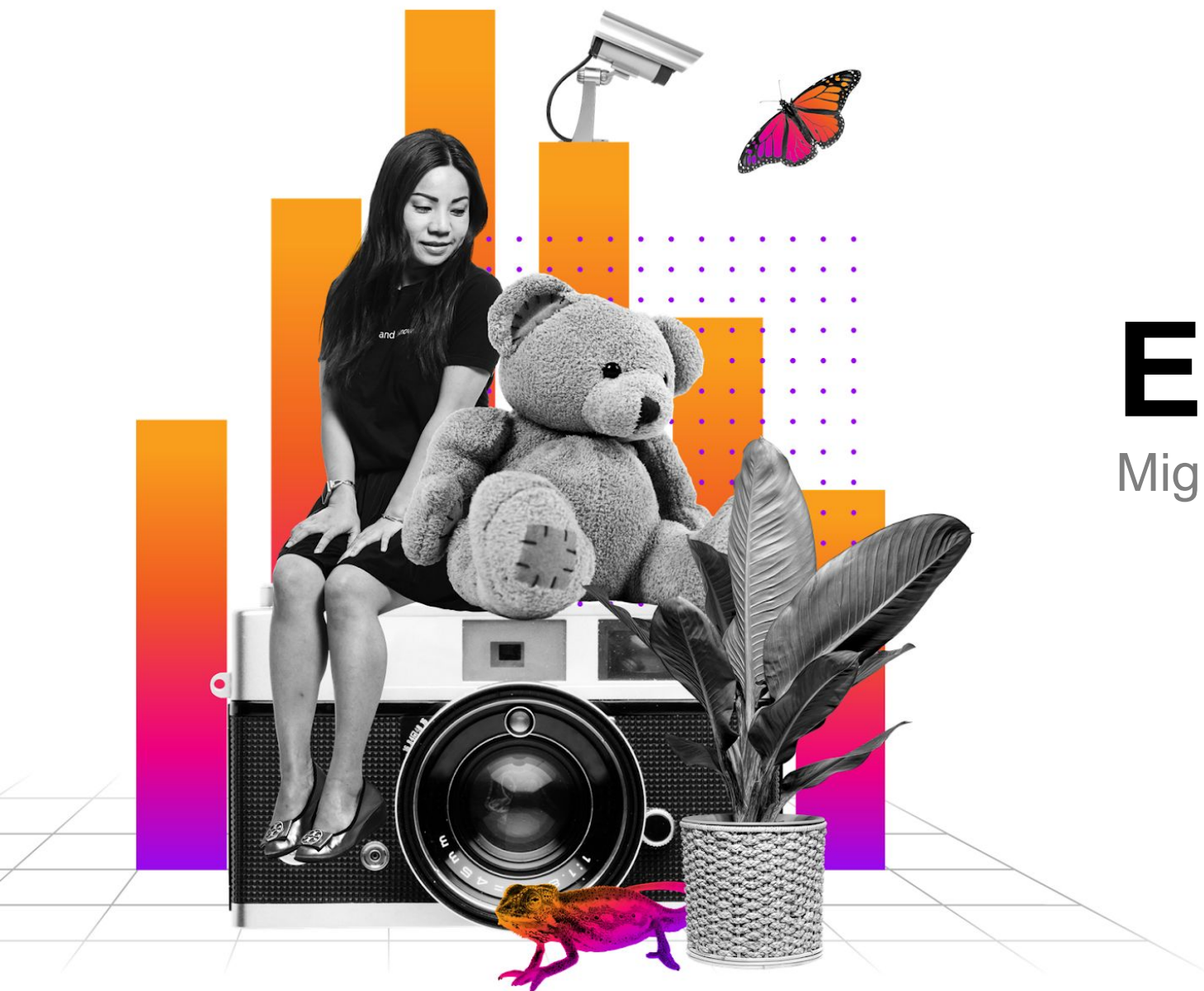
splunk>

.conf22

Link Widget

- Clickable links are created in a widget
- Links can be appended and sorted from any playbook
- Links open in a new tab
- Widgets are shown by default so they are easy to find
- That risky admin setting can be switched off





Exodus

Migrate Content Consistently

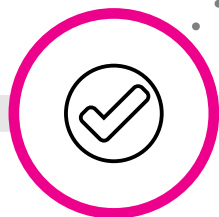
splunk>

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Exodus Migration

Provide oversight and reduce human error

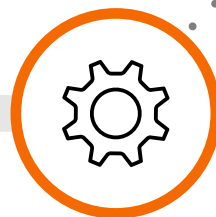
Enforces tagging and
repo management



Playbook or Utility Created or Updated

In proper repo with prod
tags applied

Provides permission
controls to approval
process



On Poll Creates Exodus Ticket

Exodus label is limited
to approvers
Ticket contains name
and ID of updated
content

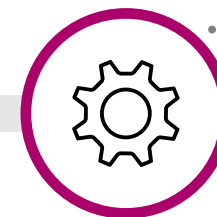
Requires oversight
before code reaches
prod



Dev Lead Approves Ticket

Via automation or
manual intervention
Ideally after reviewing
the material

Error prone operations
handed off to
automation



On Poll Copies Content to Prod

Fully Automated Using
Rest API

Nothing is Perfect

Exodus is no exception

Pros

Migrates Playbooks

Migrates Utilities

Migrates New Assets

Adds Control Gateways

Removes Human Error

Creates Historical Record

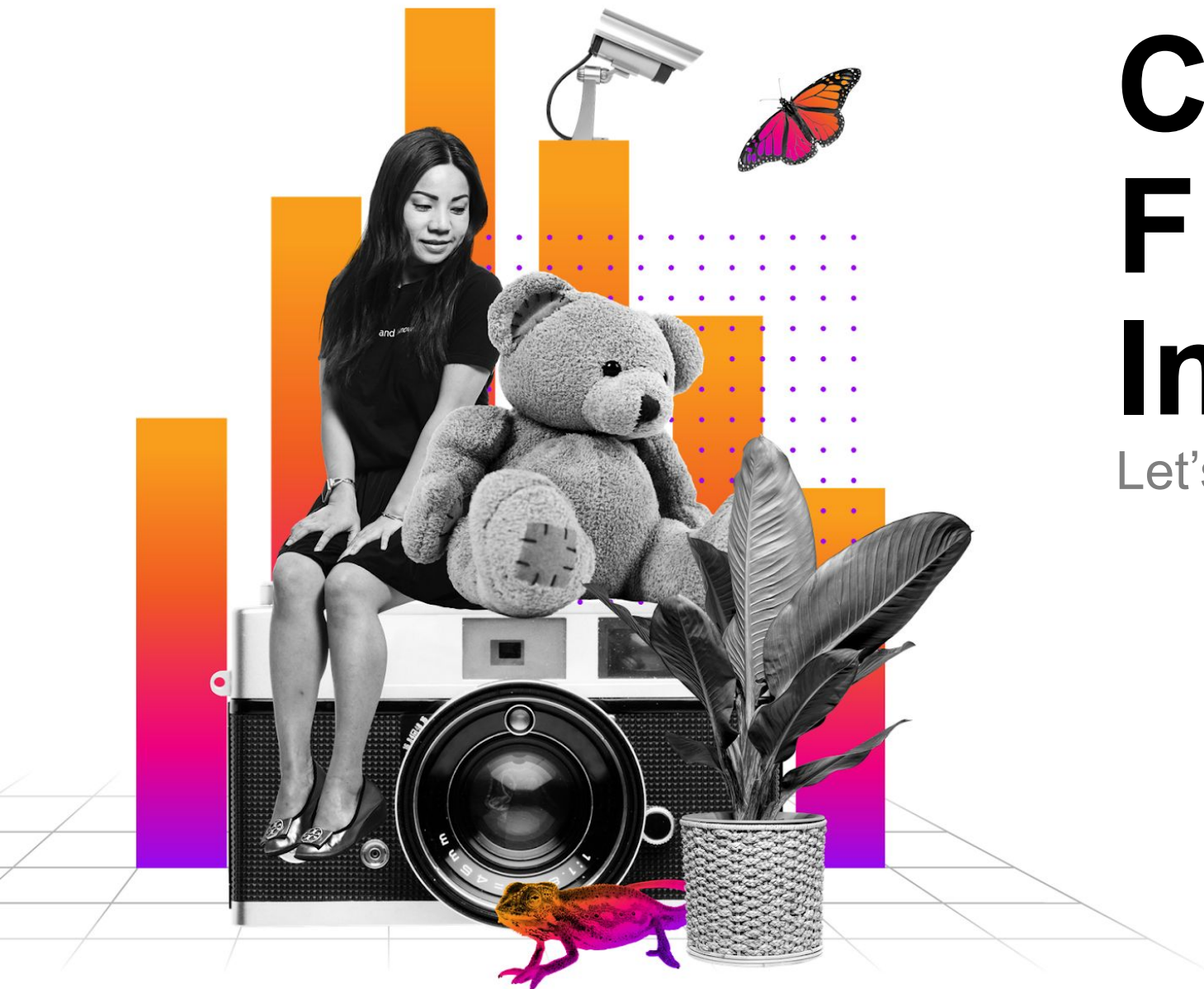
Cons

Requires HTTP access between hosts

Loses Tenant Assignments

Cannot Move Apps

Utilities Cannot be Tagged



Custom Function Imports

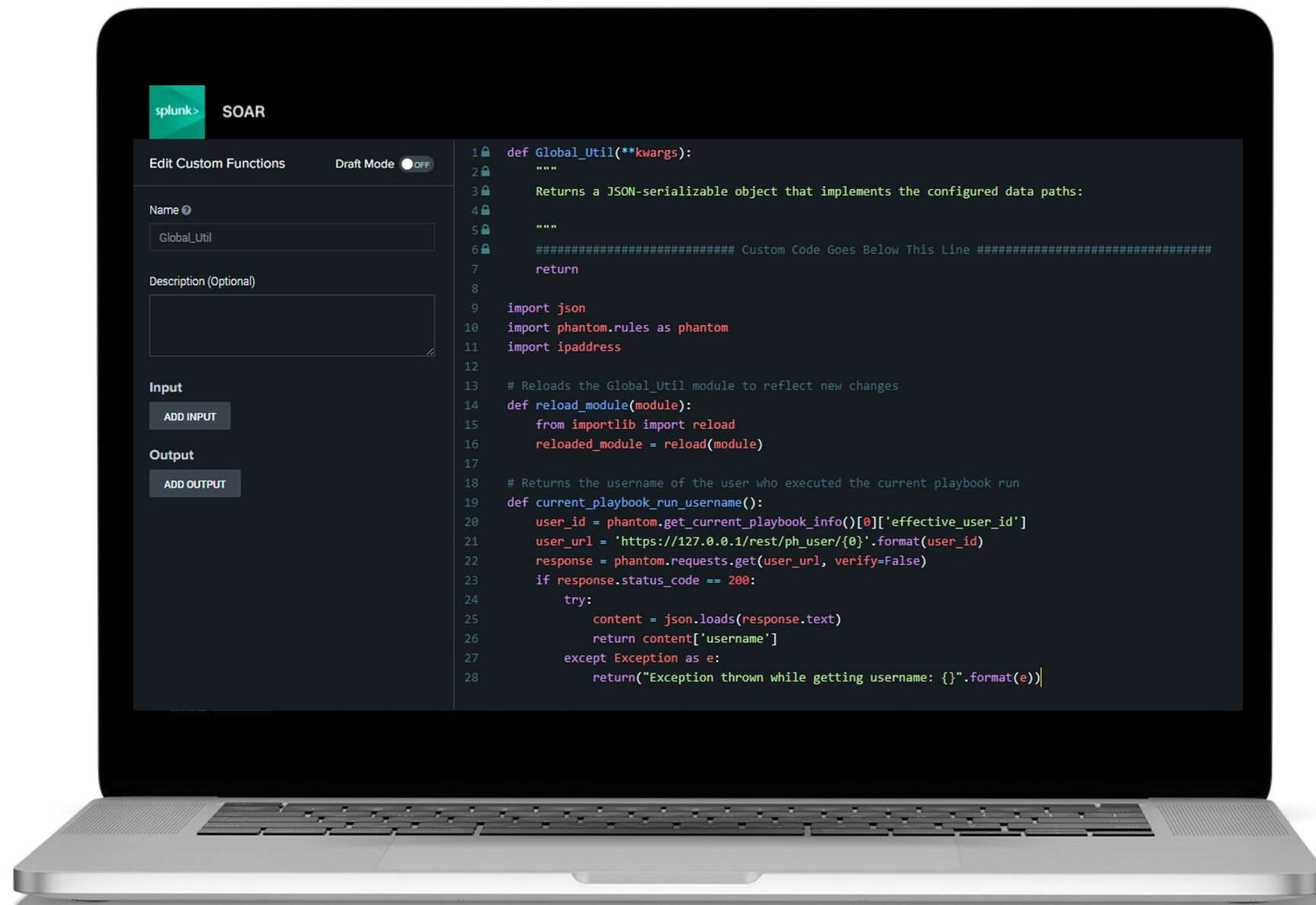
Let's get a little sketchy

splunk>

.conf22

Hijacking a Utility Block

- Utilities live in the same directory as playbooks so it's easy to import
- Requires a reload capability
- Requires an init function as well
- Required on a per repo basis (Don't cross the streams)



Playbooks ▾

Playbooks

Custom Functions

Custom Lists

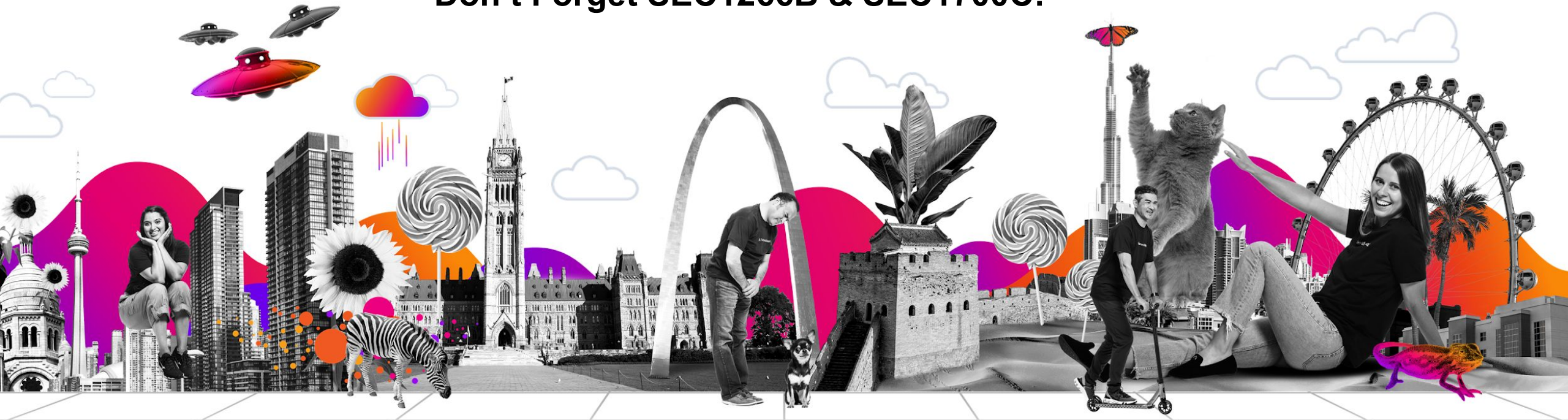
NAME	DRAFT	DESCRIPTION	REPO ▾	PYTHON VERSION ▾
> <input type="checkbox"/> Global_Util		DO NOT DELETE	local	3.6
> <input type="checkbox"/> __init__		DO NOT DELETE	local	3.6

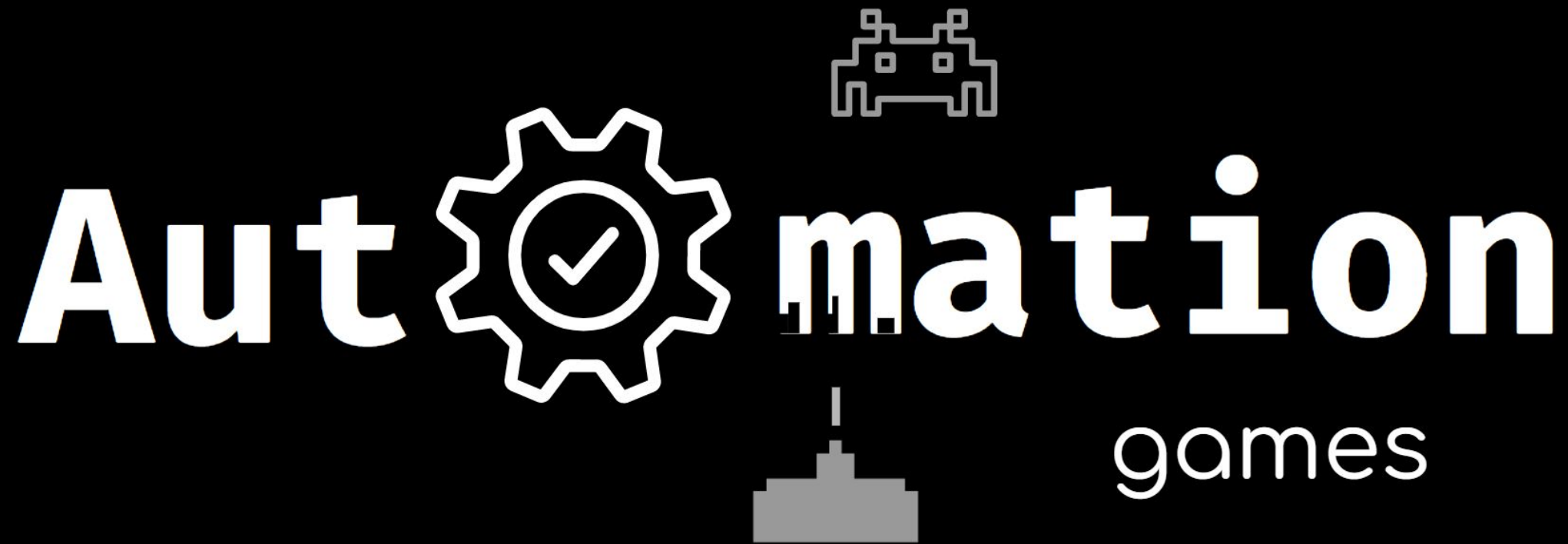
```
1  def prompt_1(action=None, success=None, container=None, results=None, handle=None, filtered_artifacts=None,
2      phantom.debug("prompt_1() called")
3
4      #user = "admin"
5
6      import custom_functions.Global_Util as utils
7      phantom.debug(utils.__file__)
8      user = utils.current_playbook_run_username
9
10
11     message = """Is this a cool coding strategy? I think so!"""
12
13     # parameter list for template variable replacement
14     parameters = []
15
16     phantom.prompt2(container=container, user=user, message=message, respond_in_mins=30, name="prompt_1", pa
17
18  return
```




Thank You

Don't Forget SEC1266B & SEC1700C!



The logo for 'Automation Games' features the word 'Automation' in a large, white, sans-serif font. A gear icon with a checkmark inside is positioned between the 't' and 'm'. The word 'games' is in a smaller, white, sans-serif font below 'Automation'. Above the 'm' is a small, white, pixelated cityscape icon. Below the 'm' is a small, grey, pixelated robot icon.

Automation

games

an interactive workshop on security automation

Sign up in the Session Scheduler or Mobile App

SEC1761 - The Automation Games
Thursday June 16 | 12-2pm PST