



# EDGE/WORLD

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EXPERIENCE THE EDGE

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# Bulk Onboard Secure Domains on Akamai



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# Speakers



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- 7+ Years in CDN market.
- Newbie developer

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- 8+ Years in CDN market
- Creator of “Akamai developer toolkit”

Twitter: @akhiljp\_dev

# Agenda

- Background
- Current vs the proposed onboarding process
- The “Bulk Onboarder” tool
- Benefits/Savings
- Resources



# Background

## New Customers

Completes trial and now wishes to accelerate and secure 300+ domains over to Akamai

## SaaS Vendors & Aggregators

Automate Akamai onboarding of new customers on their platform

\*Size of boxes represent market size

## Solution today

- PM CLI, CPS CLI, run script
- Call GSS ask them to create edge hostnames
- Add domains to WAF - all 305 properties
- Total time - **1.5 months**



## Why can't we automate this?



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# Need for a tool

Speed

High onboarding times for bulk onboards

Self-Serviceability

Non Akamai savvy customer needs PS help

Efficiency

Customers do not want to pay for initial onboarding

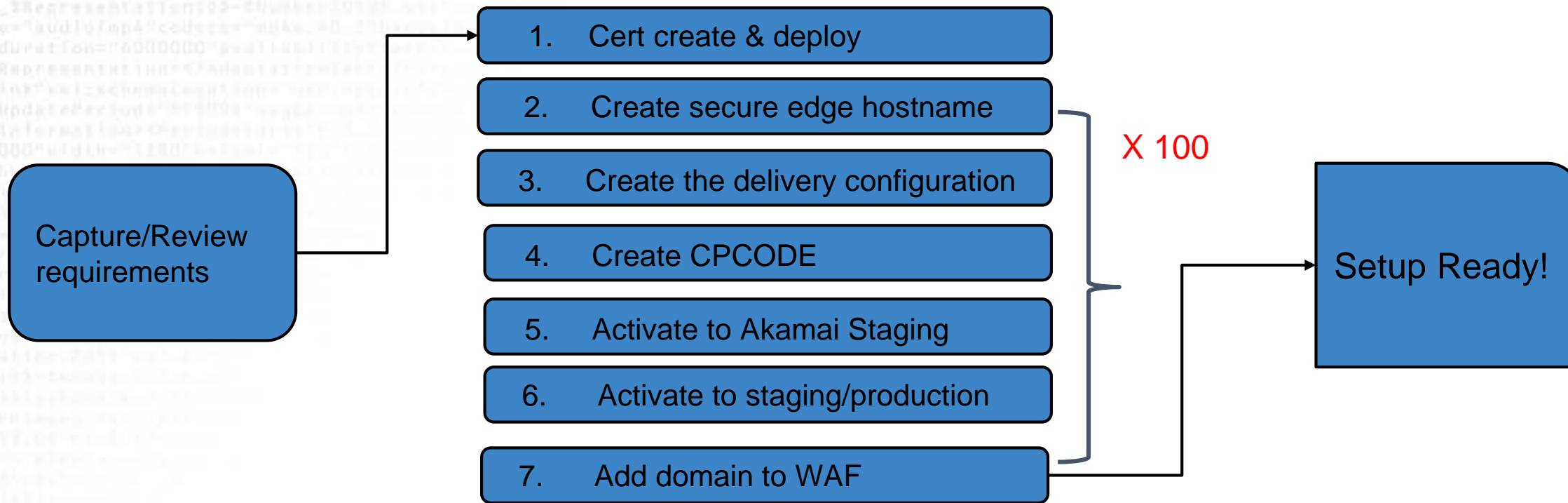


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# Current onboarding process



Effort - at least 1hr per domain/config

TOO MANY MANUAL STEPS!!!

# What can we improve?

**Automate**

Using Akamai APIs



Mask

**Akamai processes**

Automation reduces

**Manual errors**



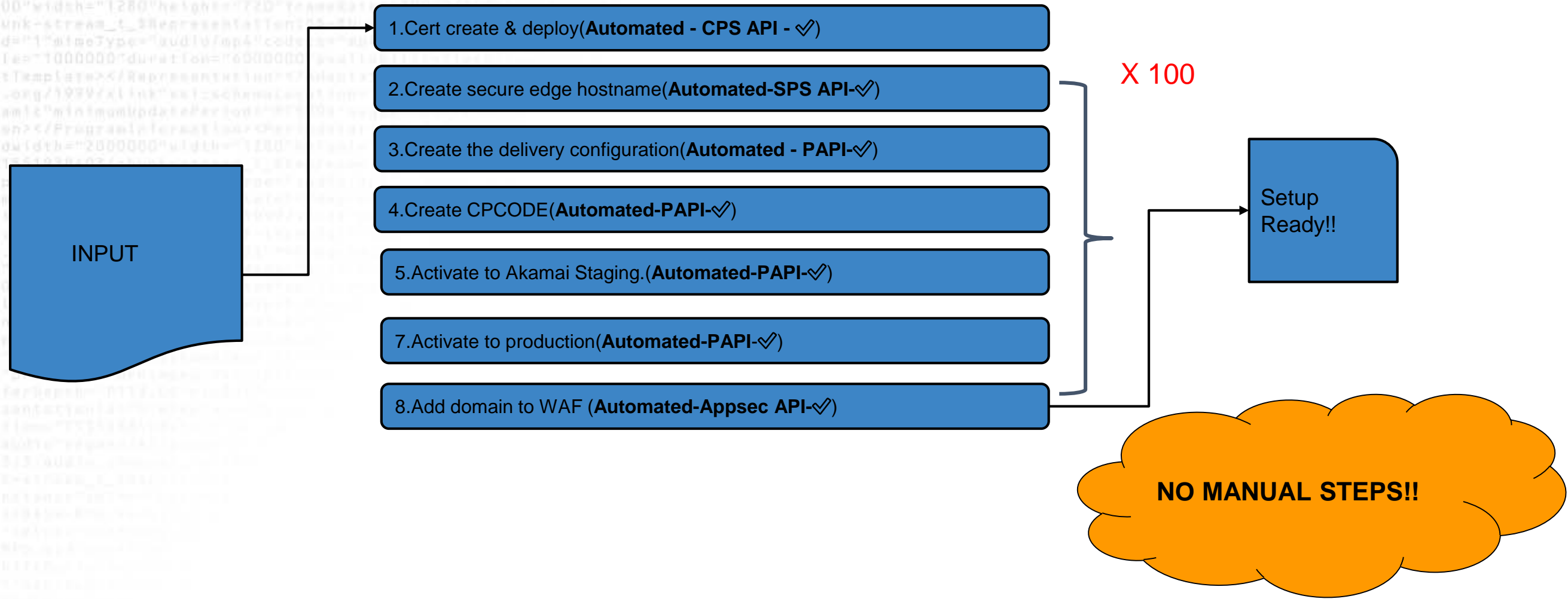
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# Proposed onboarding process!



# The Bulk Onboarder tool

## OnboardConfig:

### Account:

#Enter contract ID

- **ctr\_G-XXXX**

#Enter Group ID

- **grp\_XXXXX**

### ProductId:

#Enter the product ID

- **prd\_Fresca**

### Host-Origin:

#Enter hostnames:originnames one per line.

- **onboard10.akamai.tools:onboard10-origin.akamai.tools**

- **onboard11.akamai.tools:onboard11-origin.akamai.tools**

### notify:

#Enter notification email.

- **prvenkat@akamai.com**

## OnboardCertconfig:

Action: TRUE

#Enter Common Name of the cert

CN: **onboard10.akamai.tools**

#Enter Altnames in the box, enclosed in "" and separated by a comma

Altnames: **["onboard11.akamai.tools"]**

## OnboardSecurityConfig:

#Enter WAF policy ID

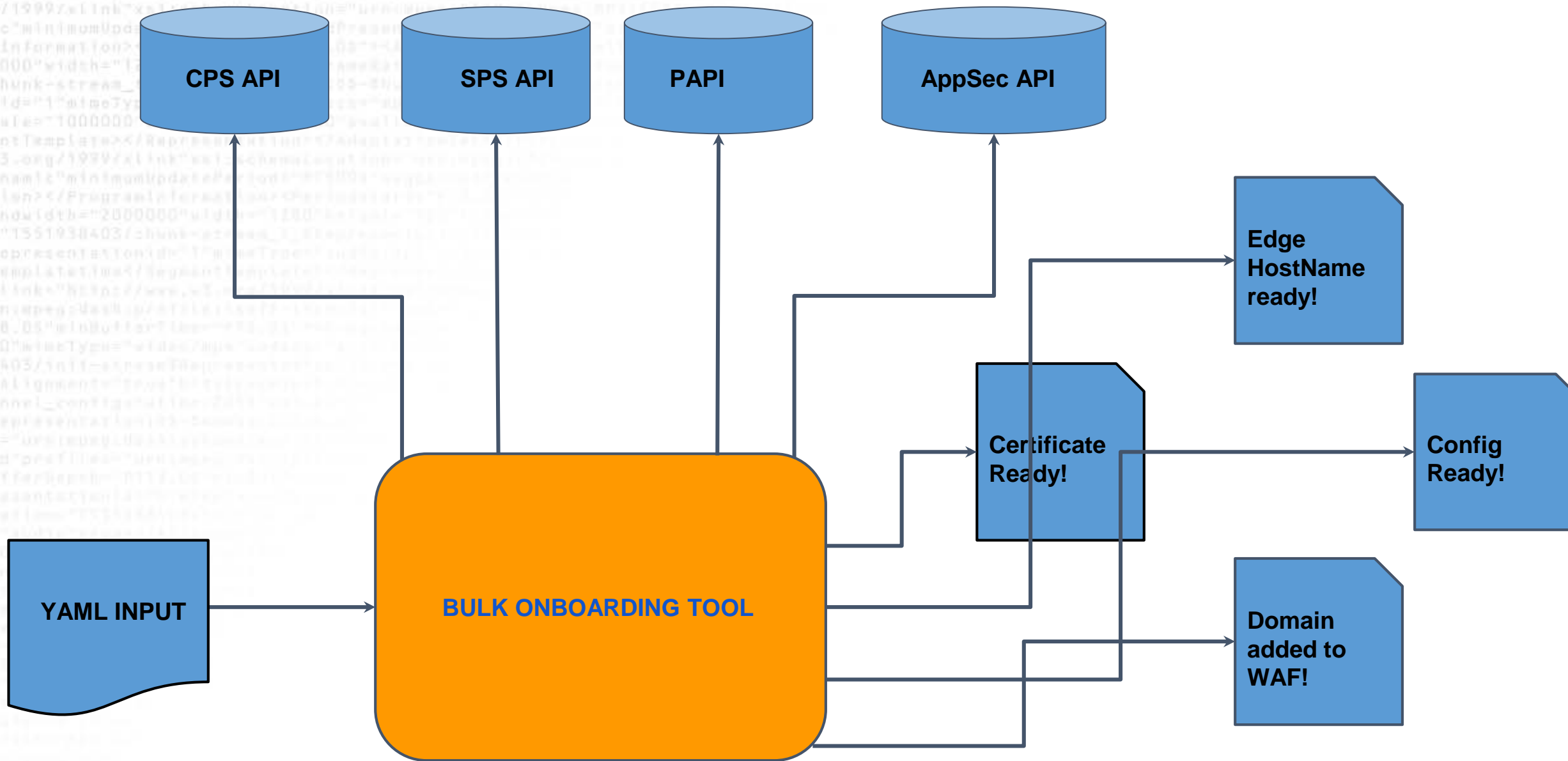
Policy\_ID: **pol\_name1**

#Enter WAF policy version number

Policy\_V\_No: **pol\_v\_no**



# The Bulk Onboarder tool



# Demo

```
blr-mpmov:bulkonboards prvenkat$ python3 hulkcreator.py -f input.yml
```

Loading up!!! We are now reading your input, please give us a moment...

Step 1: Certificate creation job in progress. Please note that the normal certificate creation and deployment ETA is approximately 4 hours...

Looks like the DV SSL Certificate was created successfully. In ~5-10 minutes, we should have the DV challenges ready for you.

To check the status of your certificate, use this enrollment ID:72737 and the change ID:569047

Waiting for the DV challenges from Lets Encrypt!...



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# Demo

```
DNS DV challenges: Creating a TXT record pointing _acme-challenge.testedge225.prasadtest.akamaidevops.com. to 7KhE04J6MYxTnUSIde9UOnQH_mFj8hD46TkyPTN5cMo with a DNS TTL of 60s
DNS record for _acme-challenge.testedge225.prasadtest.akamaidevops.com. successfully created in AWS
DNS DV challenges: Creating a TXT record pointing _acme-challenge.testedge114.prasadtest.akamaidevops.com. to AVlOM7nJMBEJjbAqitU9TNcgPER-dQ_ZjE4hknQF5M with a DNS TTL of 60s
DNS record for _acme-challenge.testedge114.prasadtest.akamaidevops.com. successfully created in AWS
```

```
Have you setup the DNS entries as per the instructions? ONLY Press Y if you have completed the task: Y
```

## Step 2: Certificate Deployment

```
The program will keep checking the status of your certificate every 15 mins, until it gets deployed. We will only go forward with the next steps once certificate is deployed on the platform. This activity might take ~3-4 hours. Appreciate your patience here.
```



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# Demo

Step 3: Creating a new edge hostname and new config. Hostname currently in effect testedge11111114.prasadtest.akamai.com. Please wait...

Let us wait for the EdgeHostnames to get created. This approximately takes 15 mins...

Step 4: Creating new CP codes for configs

CPCODE is created. Updating your configuration...  
Success! Config is now updated!, Activating the configuration to STAGING network now.

Successfully activated the config on production network. Please give it 90 mins for both the activation to complete.

Addition of the hostname to the security policy succesful. Lets move to the next hostnames



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# Demo

Step 3: Creating a new edge hostname and new config. Hostname currently in effect testedge111111115.prasadtest.akamaidevops.com. Please wait...

Let us wait for the EdgeHostnames to get created. This approximately takes 15 mins...

Step 4: Creating new CP codes for configs

CPCODE is created. Updating your configuration...  
Success! Config is now updated!, Activating the configuration to STAGING network now.

Successfully activated the config on production network. Please give it 90 mins for both the activation to complete.

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# Benefits/Savings

**~100 manual hours**

saved for onboarding

**100**

domains!



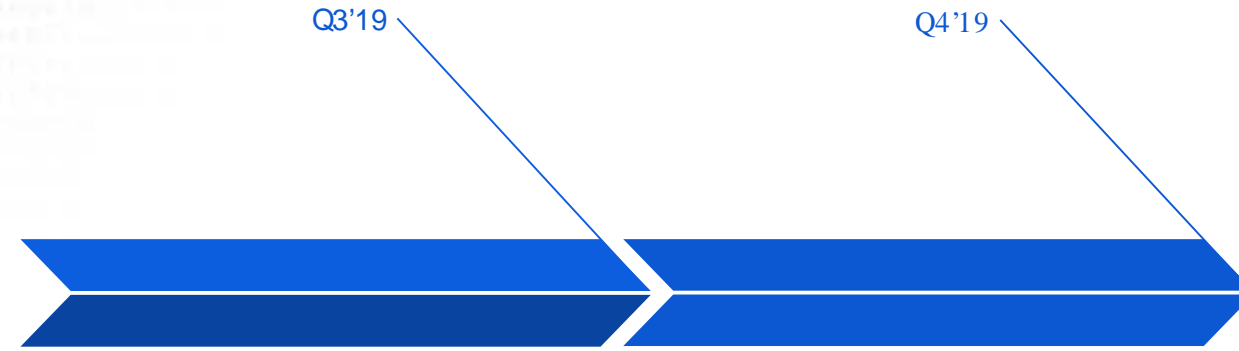
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# Roadmap



**Flexible Input**  
**Multi product support**

**Parallel Execution**



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# Resources

- <https://github.com/akamai-contrib/secure-bulk-onboarder>
- <https://developer.akamai.com/api>
- <https://developer.akamai.com/cli>





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THANK YOU

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