



#securityfirst

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ISSA  
POLSKA

17 WRZEŚNIA 2021, ONLINE

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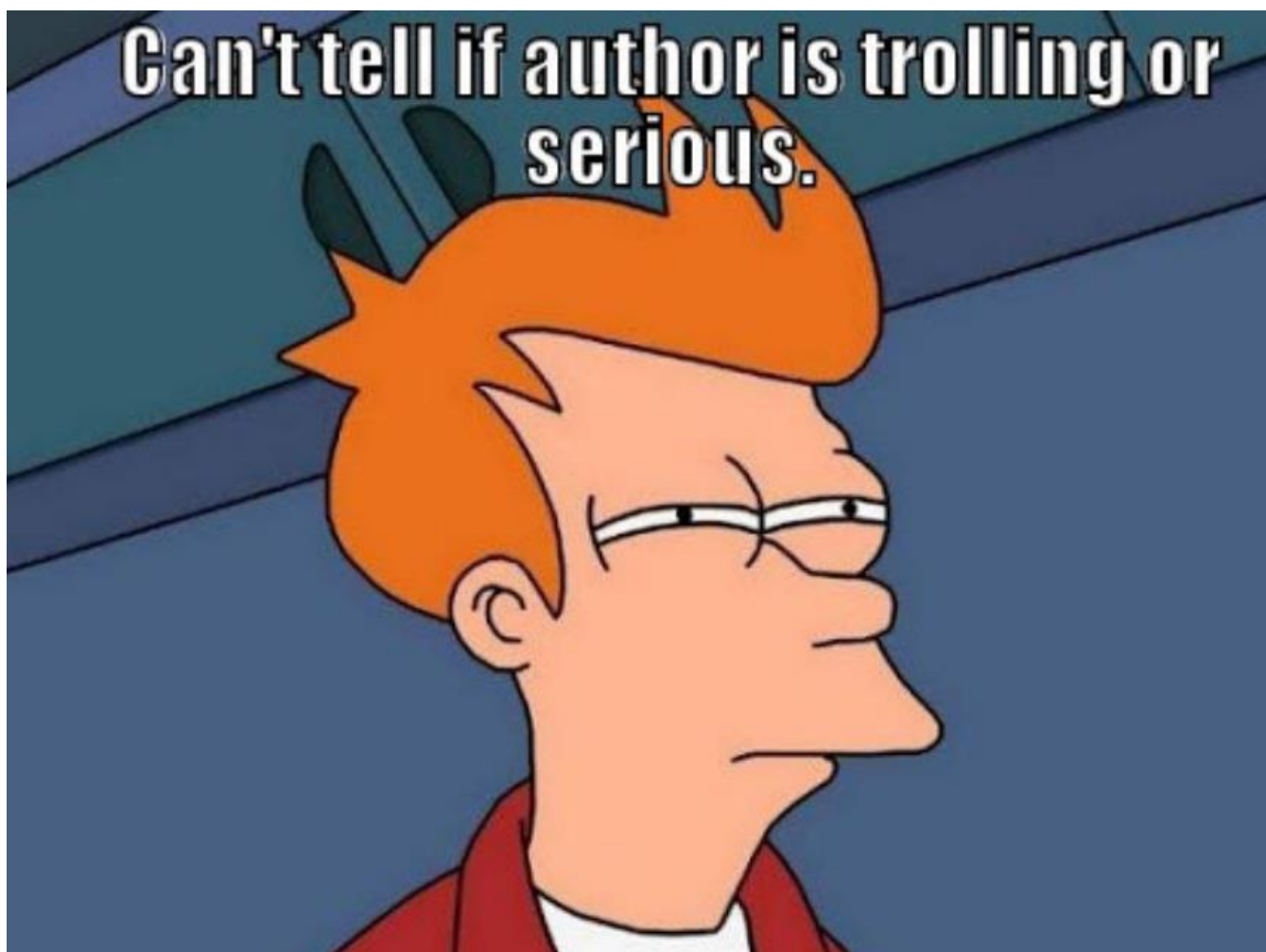
## All you need to know to start Security Automation

Lech Lachowicz

Członek Zarządu ds. Profesjonalnego Rozwoju

ISSA Polska

# Disclaimer



## **Who am I:**

IT Security specialist with decent background in dev  
Global Threat Defense lead responsible for detections,  
hunting, automation and breach simulation  
Big fan of opensource and automation

## **Who I'm not:**

NOT a full time Developer  
NOT A DEVOPS

## **What is it going to be about:**

Better and faster SECURITY



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# Current security operations challenges



Increasing volume and complexity of attacks

67%

of organizations say volume of attacks is increasing

Expanding compliance and obligations

72 hours

to comply with mandatory breach reporting for GPR

Challenging operational environments

26 or more

security products managed on average by organizations



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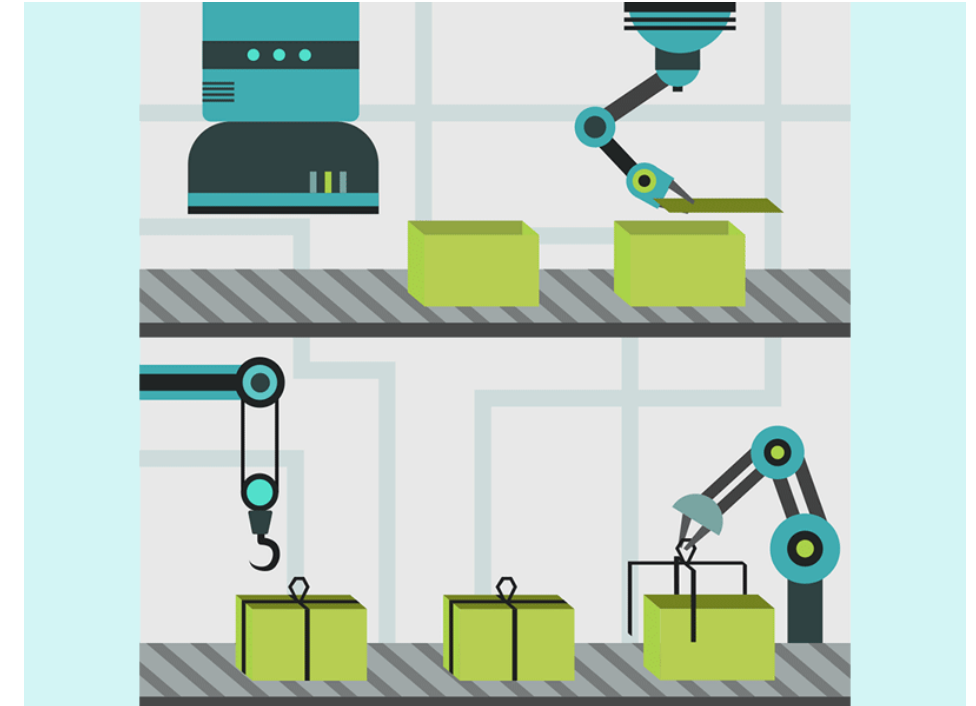
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# Security Operations need to

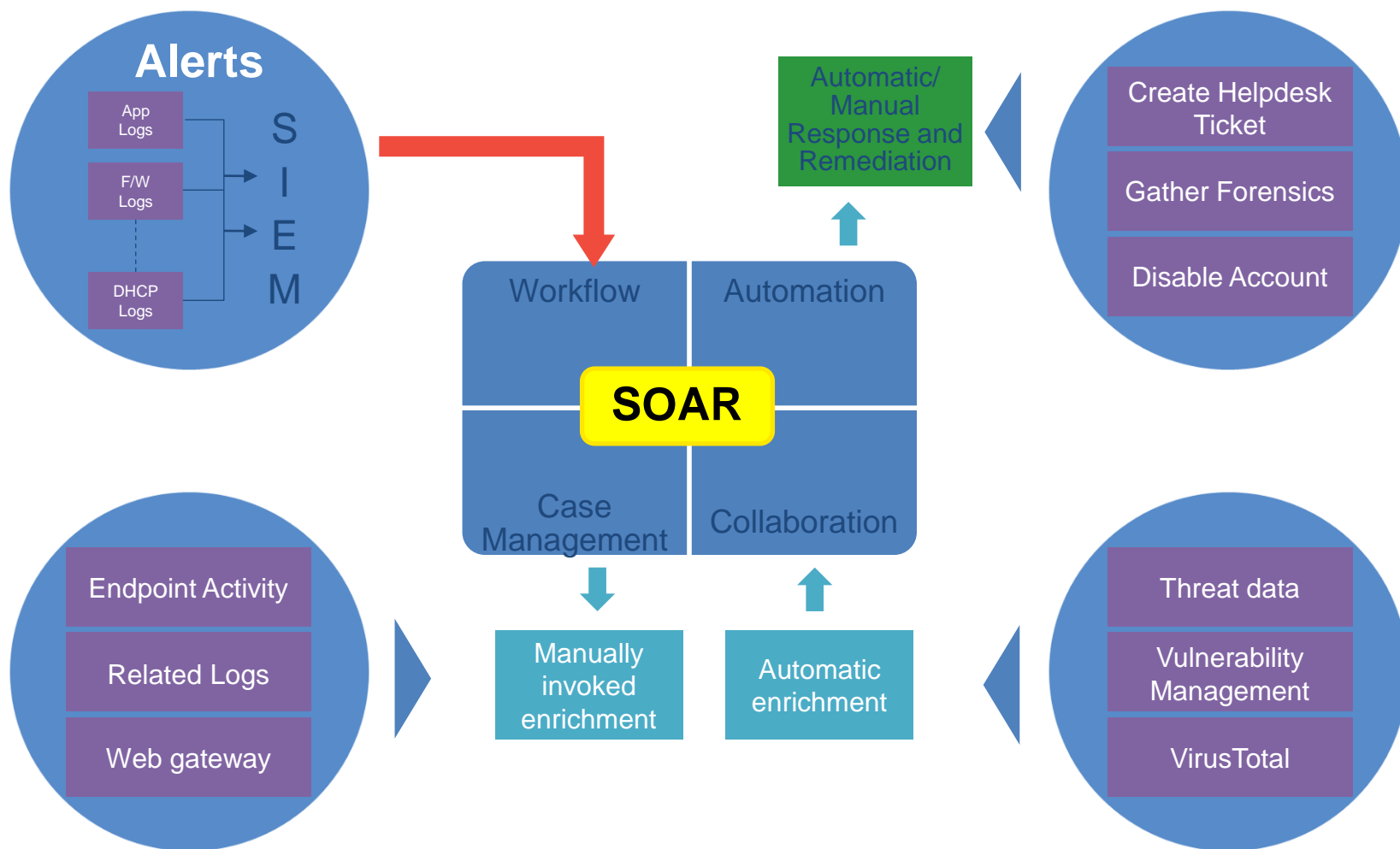
- **Minimize** duration and impact of cyber attacks
- **Optimize** SecOps and reduce staff burnout
- **Address** breach reporting requirements and show compliance
- **Maximize** security investments and scale insights across teams



So we automate



# Step 0 – Pick the tool



Use a tool that's closest to your ecosystem

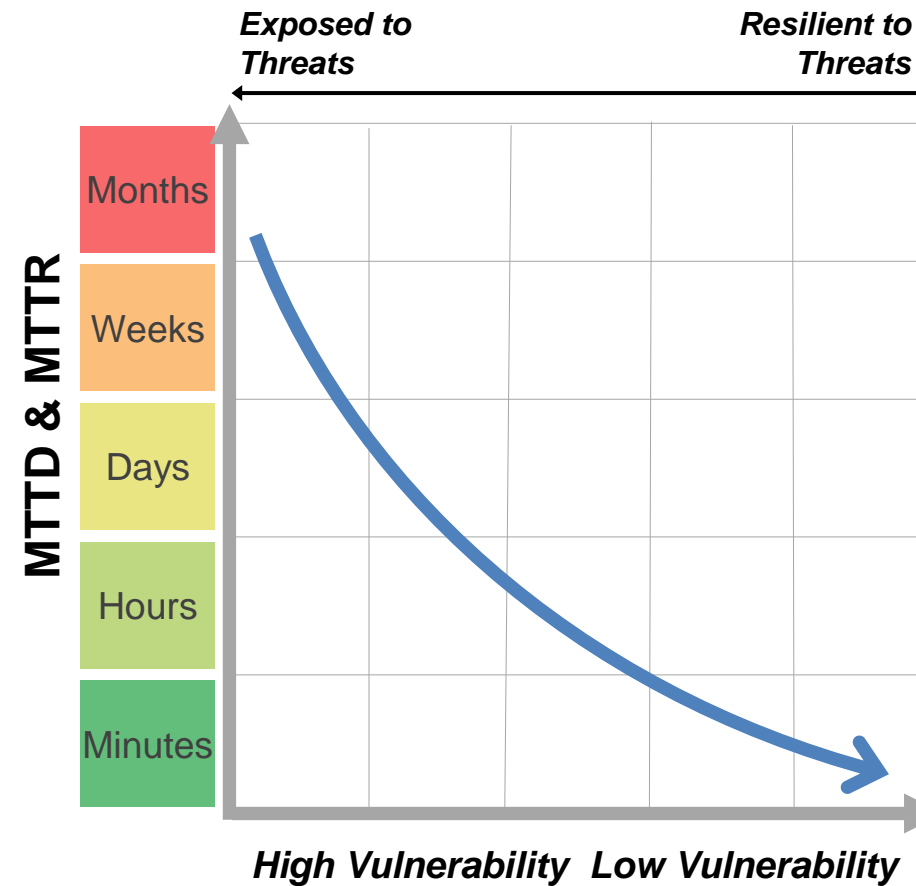
If the tool can be part of your ticketing system – it's the right one

Make sure you have the talent to maintain the tool – you'll need Python, Javascript, Ruby or something else

Be prepared to scale!



# Step 1 – build the measure



## MEAN-TIME-TO-DETECT (MTTD)

The average time it takes to recognize a threat requiring further analysis and response efforts

## MEAN-TIME-TO-RESPOND (MTTR)

The average time it takes to respond and ultimately resolve the incident

*As organizations improve their ability to quickly detect and respond to threats, the risk of experiencing a damaging breach is greatly reduced*



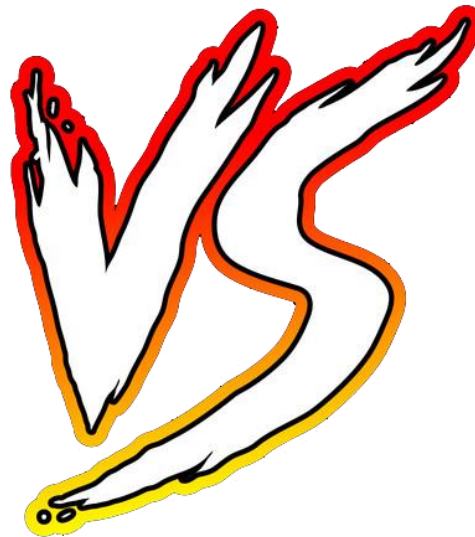
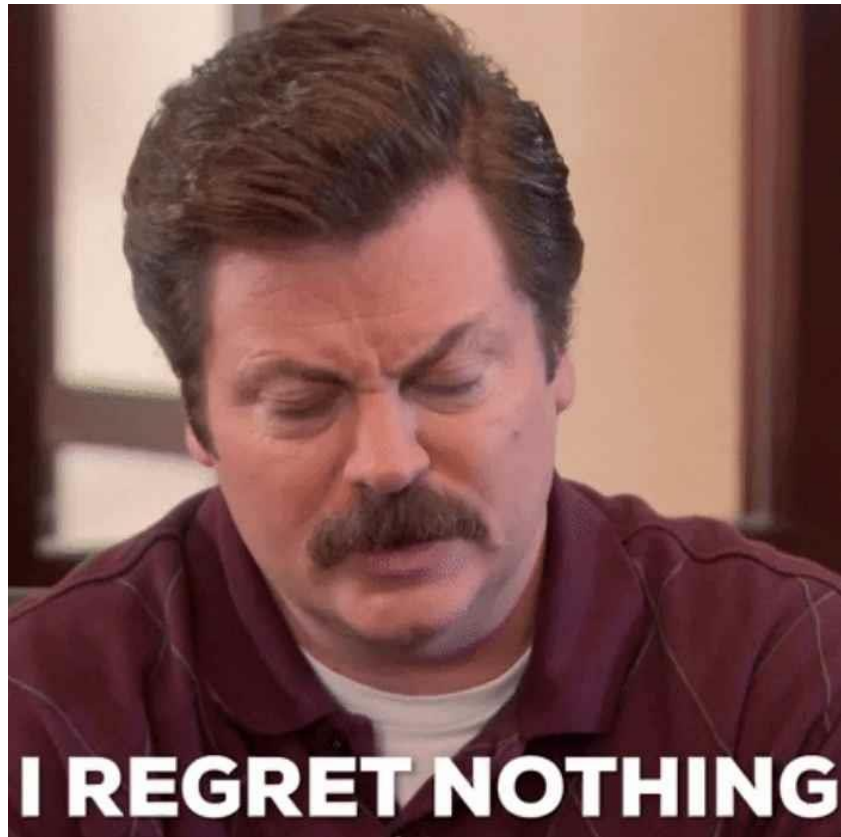
# Step 2 – Pick the process



#	Action	Current manual time spent (sec)	Current manual time spent - Explanation
A	Have a look at the email content	30	Need to download the email, open it and save a screenshot
B	Collect email header	60	Need to grab the email header then run it through a parsing script/tool and finally attach the data to the ticket
C	Check URL & determination	300	Need to manually check it against VT/OSINT, test it within SafeBrowser and determine if bad. Finally document it as IOC.
D	Check attachment & determination	300	Need to grab the sample, detonate it manually in Sandbox, create IOC and attach the report into Incident
E	Check downloaded malware & determination	300	Need to grab the sample, detonate it manually in Sandbox, create IOC and attach the report into Incident



# Step 3 – Pick the strategy



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# Step 4 – Develop the playbook

## Keep it simple

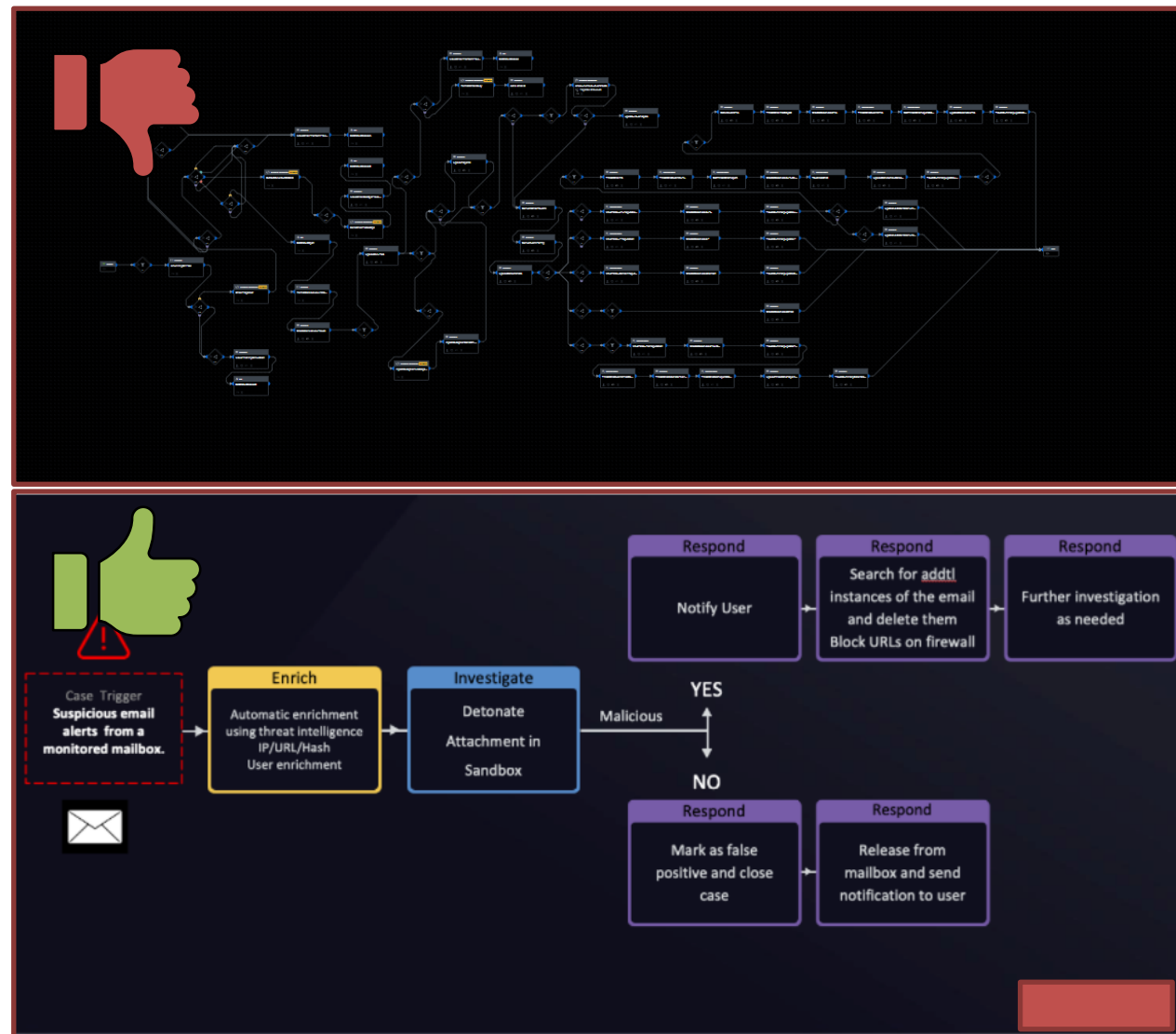
- Break into smaller pieces
- monster playbooks look cool but are hard to maintain

## Reuse code

- Make the playbooks modular
- Do not modify built-in code... unless there's no other choice

## Build testing scenarios

- And test error handlers
- this is a MUST, period.



# Step 5 – Measure the results

#	Action	Current manual time spent (sec)	Current manual time spent - Explanation	New manual time spent (sec)	New manual time spent - Explanation	Manual time saved (sec)
A	Have a look at the email content	30	Need to download the email, open it and save a screenshot	5	Screenshot already present in the Incident	25
B	Collect email header	60	Need to grab the email header then run it through a parsing script/tool and finally attach the data into the ticket	5	Header already displayed in the Incident, with quick spoof check for determination	55
C	Check URL & determination	300	Need to manually check it against VT/OSINT, test it within SafeBrowser and determine if bad. Finally document it as IOC.	120	OSINT is automatically gathered, and IOCs created. URL is detonated in Sandbox. Use Sandbox score and OSINT for determination.	180
D	Check attachment & determination	300	Need to grab the sample, detonate it manually in Sandbox, create IOC and attach the report into Incident	60	IOC already created with Sandbox report, for quick determination	240
E	Check downloaded malware & determination	300	Need to grab the sample, detonate it manually in Sandbox, create IOC and attach the report into Incident	60	IOC already created with Sandbox report, for quick determination	240

Thats 990sec vs 250sec = **~4 times better**



# The benefits

## Reliable



Operate 365 days a year!

## Retention



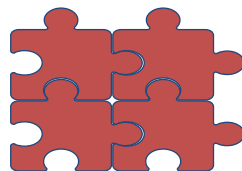
Freed up human resources for higher value-added tasks

## Productivity



Accelerate detection and response

## Consistent



Eliminating variations in processes

## ROI



There are going to be savings

## Fast



Automatically deploy security controls

## Audit trail



Fully maintained logs for compliance

## Scalable



Ramp up and down to match demand

## Visibility



Single pane of glass



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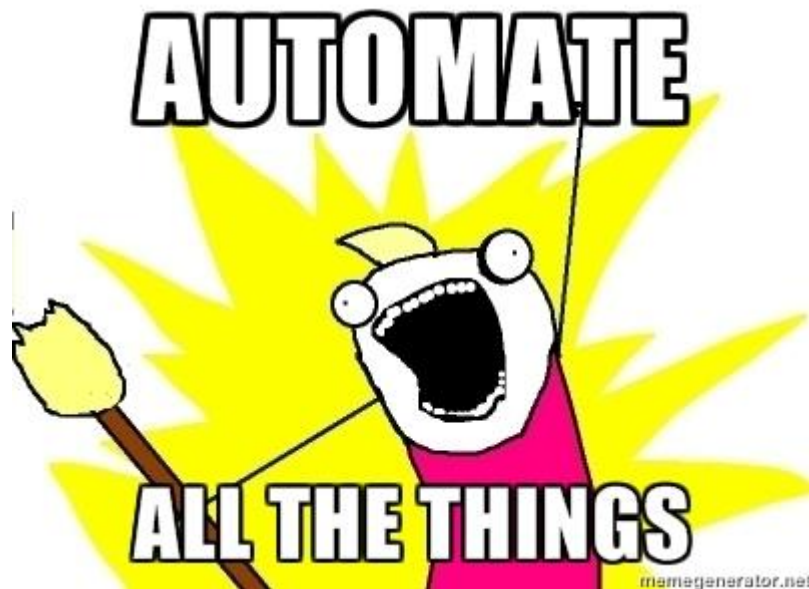
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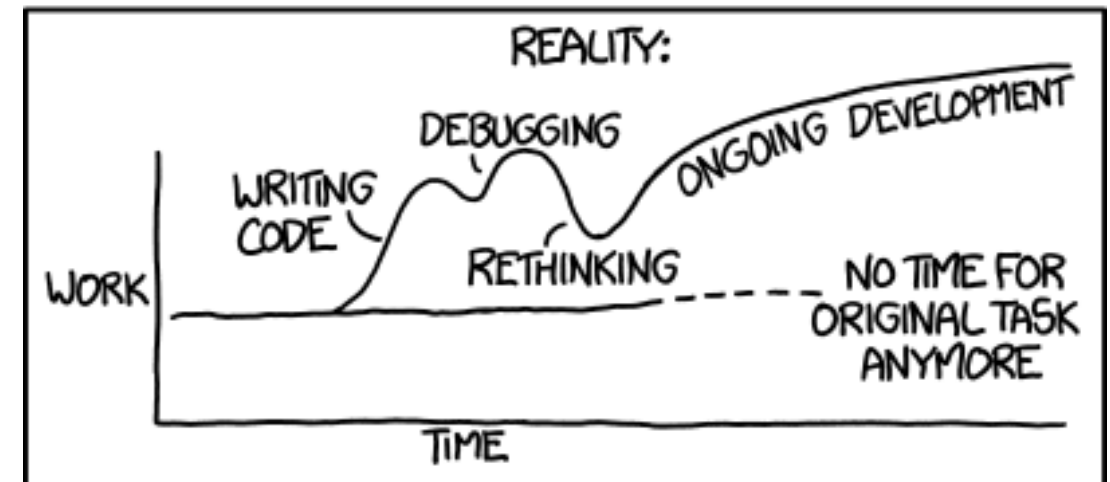
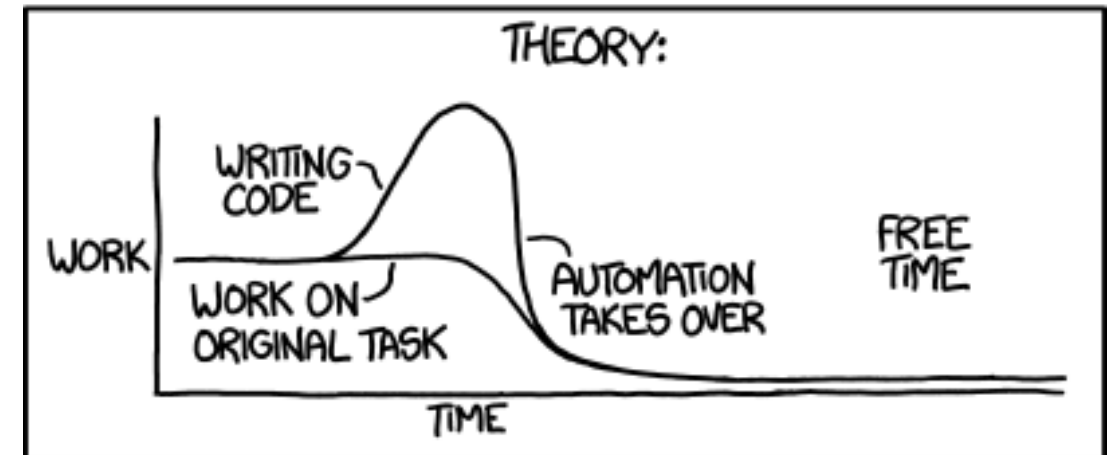


# Watch out!!!



?

"I SPEND A LOT OF TIME ON THIS TASK.  
I SHOULD WRITE A PROGRAM AUTOMATING IT!"



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# Questions







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# Thank you

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