



# Automated Regression Testing with **AET** in Continuous Delivery

Radek Lawgmin  
 cognifide

**SOA**<sup>®</sup>  
DAYS#25

# Radek Lawgmin

Radek is a senior QA engineer and QA lead at Cognifide. Being responsible for defining testing strategies, he ensures the product complies with industry and company standards and best practices.

He has 15 years of professional experience in the fields of IT in local and international projects holding various roles (7 years in AEM projects, before engaged in various e-learning projects).

His special expertise includes process optimization and software test efficiency vs. effectiveness.




# Agenda

1. AET Basics
2. AET Report Preview
3. How AET Works
4. AET Advanced Features
5. AET in CD

The background of the slide is a long-exposure photograph of a night sky over a body of water. A bright, glowing orange arc of light, likely from a fountain or fireworks, curves across the upper half of the frame. The sky is dark with faint star trails. The horizon shows some distant lights and a dark silhouette of a shoreline.

# AET Basics



“There's an old saying about those who forget history.  
I don't remember it, but it's good.”  
– Stephen Colbert

# What is AET?



aet

AET is a tool developed at Cognifide that:

- aids front-end client-side layout regression testing
- helps to assess the impact or change of a website

# Test Processing with AET

Step 1 – coding

Step 2 – QA approval and first AET run

Step 3 – coding / content entry

Step 4 – changes comparison  
and assessment



# AET Report Preview



# What AET Features

accessibility

source comparison

js errors

visual

w3c

comparison

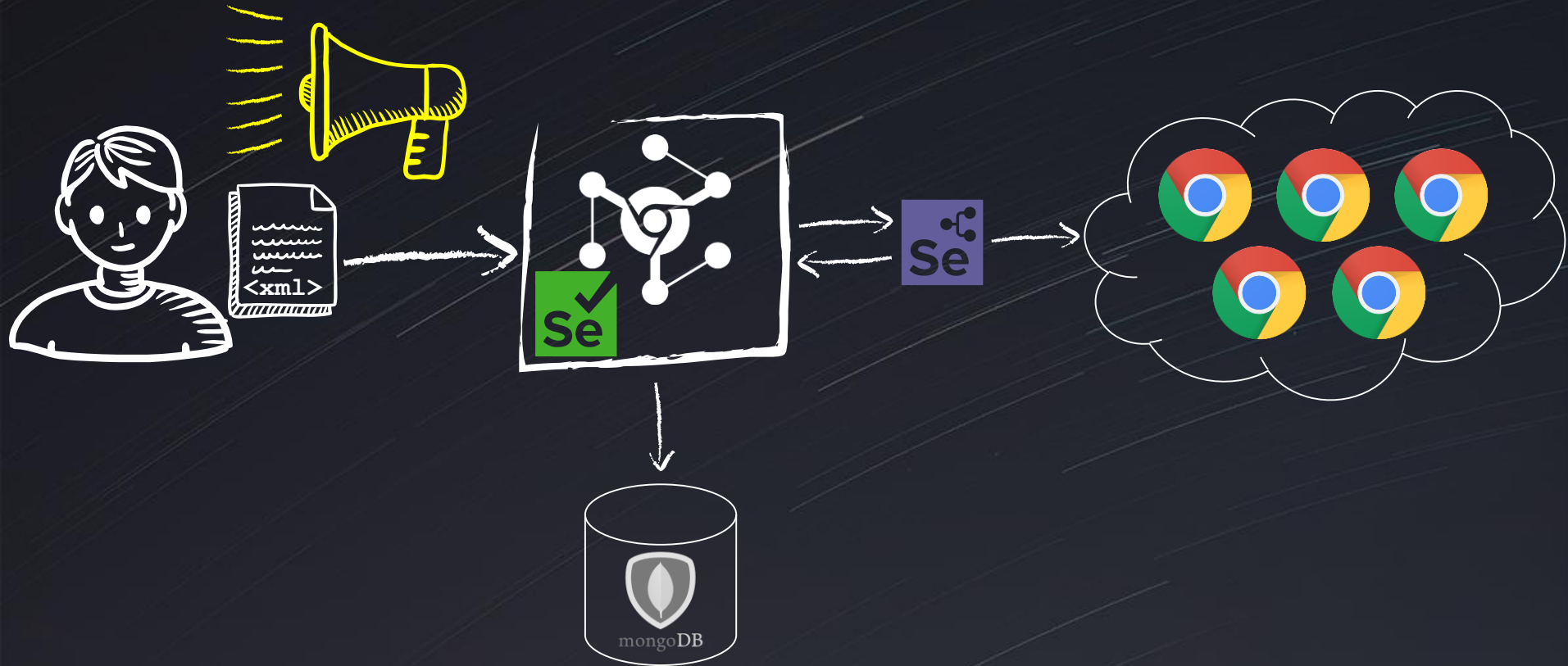
status codes

reports



# How AET Works

# How AET Works?



# How AET Works?



# AET Advanced Features

# AET Advanced Features

extensions

data filters

thresholds

modifiers

cookie

CI/CD support

page history

# AET in CI/CD...

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H1-HC  
Design

1. w
2. w
3. w

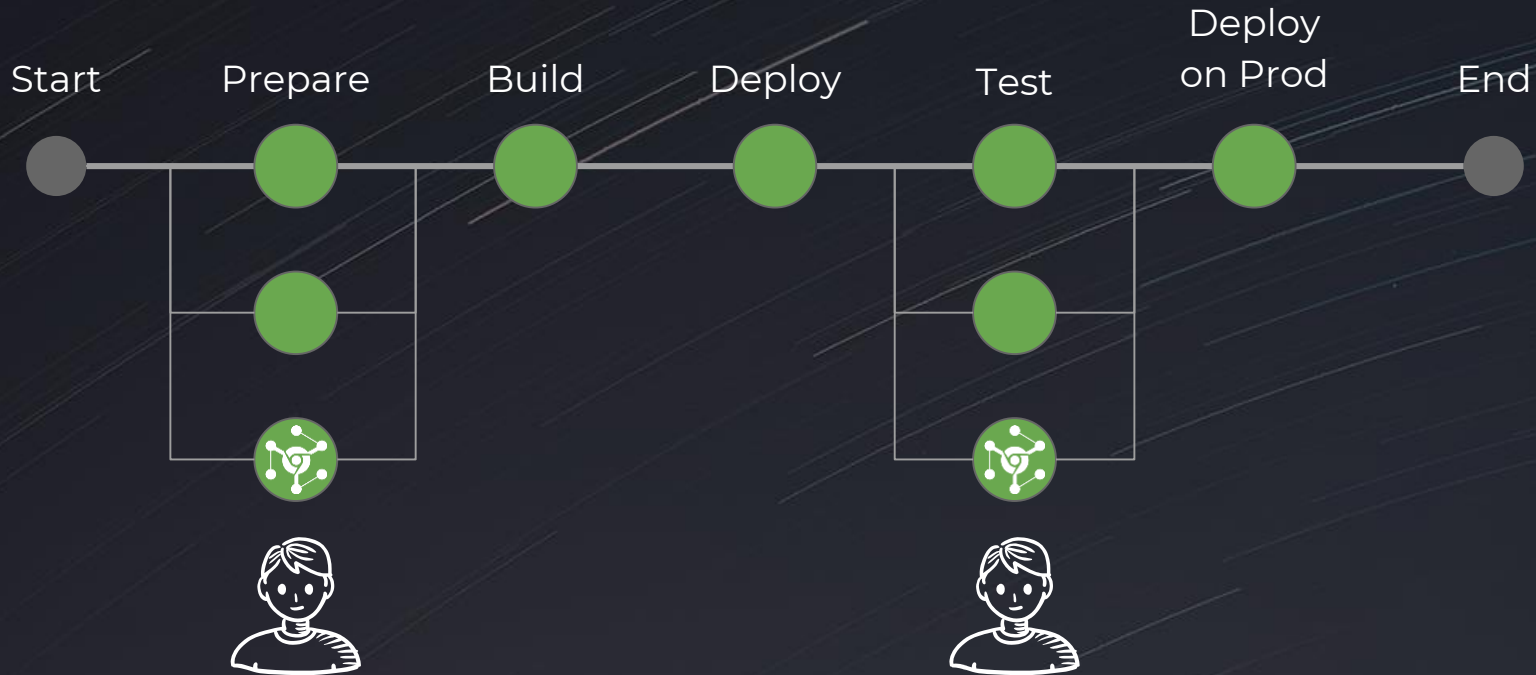
100  
Days

Video  
module

Description

Menu

# AET as a Pipeline Verification Step



... or Local Instance



Run AET with docker...



docker

... or Chef



It's All Free and Open-Sourced!

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aet

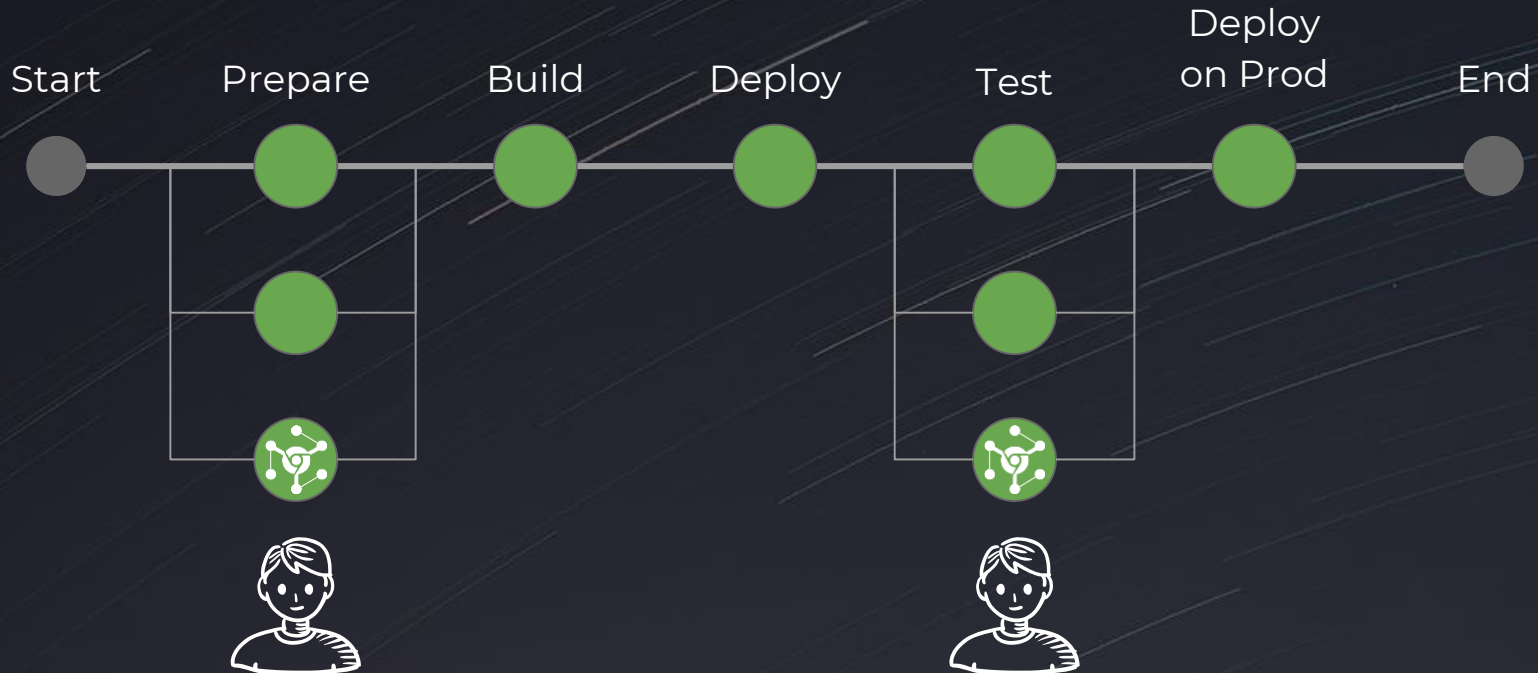
[github.com/Cognifide/aet](https://github.com/Cognifide/aet)



The title 'AET in CD' is centered in the middle of the image. It is written in a large, white, bold, sans-serif font. The background is a dark night sky with a long, bright, curved light trail that starts from the bottom left and arcs across the top of the frame. At the bottom, there is a dark horizon line with some faint lights and a small, illuminated structure on the right side.

# AET in CD

# AET as a Quality Gate in CD



# AET in CD - Simple Workflow



# AET in CD - Complex Workflow



# AET in CD - Complex Workflow

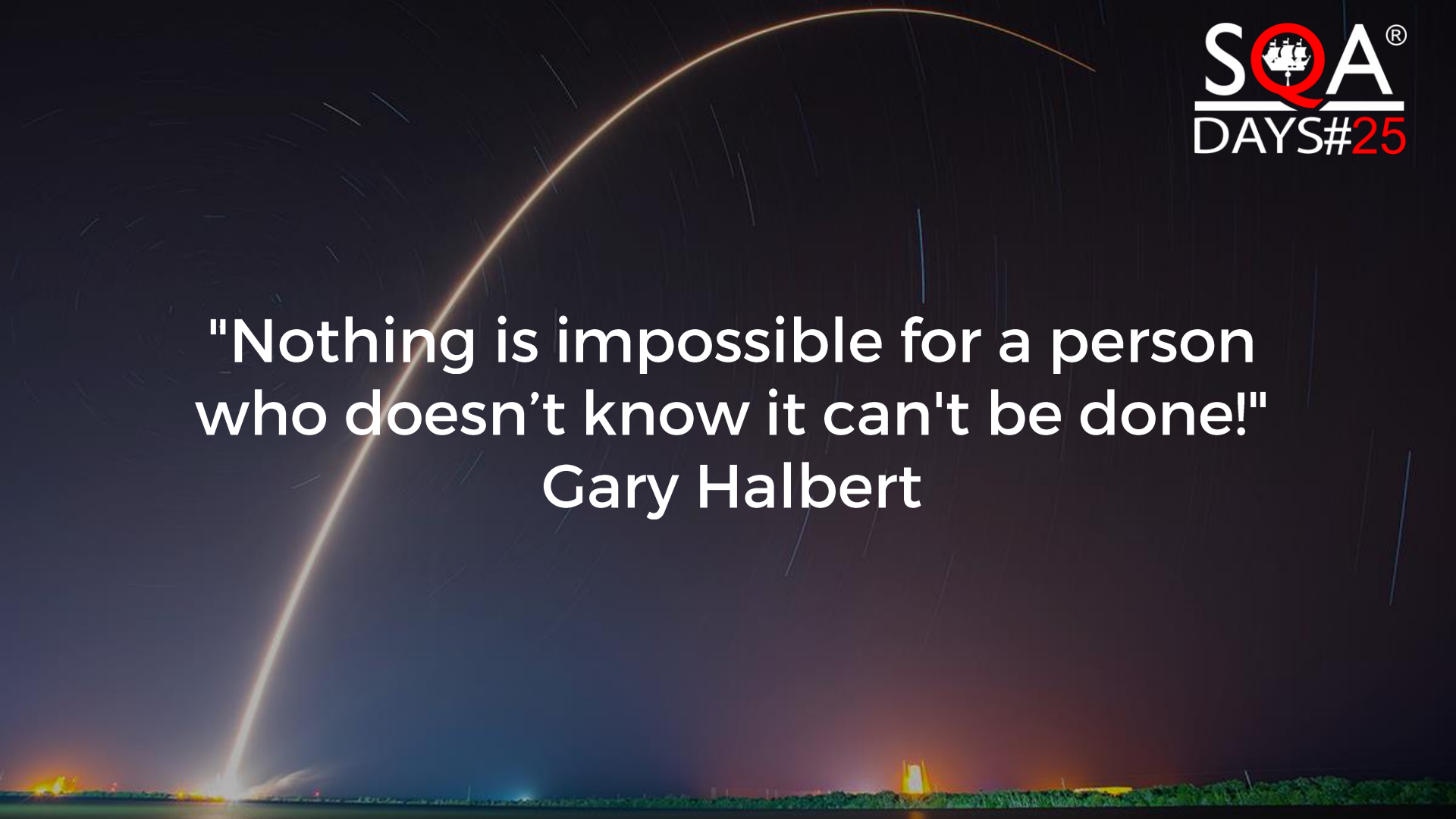
	DEV	STG	UAT
1.0	<b>ALFA</b> (develop/1.0)	<b>DELTA</b> (master/1.0)	<b>GOLF</b> (master/1.0)
1.1	<b>FOXTROT</b> (develop/1.1)	<b>VICTOR</b> (master/1.1)	<b>TANGO</b> (master/1.1)

# AET in CD - Complex Workflow

	DEV	STG	UAT
1.0	<b>ALFA</b> (develop/1.0)	<b>DELTA</b> (master/1.0)	<b>GOLF</b> (master/1.0)
1.1	<b>FOXTROT</b> (develop/1.1)	<b>VICTOR</b> (master/1.1)	<b>TANGO</b> (master/1.1)
1.2	<b>CHARLIE</b> (develop/1.2)	<b>HOTEL</b> (master/1.2)	<b>KILO</b> (master/1.2)

# AET in CD - Complex Workflow

	DEV	STG	UAT
1.0	<b>ALFA</b> (develop/1.0)	<b>DELTA</b> (master/1.0)	<b>GOLF</b> (master/1.0)
1.1	<b>FOXTROT</b> (develop/1.1)	<b>VICTOR</b> (master/1.1)	<b>TANGO</b> (master/1.1)
1.2	<b>CHARLIE</b> (develop/1.2)	<b>HOTEL</b> (master/1.2)	<b>KILO</b> (master/1.2)
...	...	...	...

The background of the slide is a long-exposure photograph of a night sky. A prominent, bright, orange-gold light streak curves from the bottom left towards the top right, resembling a meteor or a satellite. The sky is dark with some faint, vertical light trails. At the bottom, a dark horizon line is visible with some distant lights and a small, bright yellow light source on the right side.

**"Nothing is impossible for a person  
who doesn't know it can't be done!"  
Gary Halbert**

# Summary

1. AET is an open-source tool
2. AET aids front-end client-side layout regression testing
3. AET helps to assess the impact or change of a website
4. AET is a perfect tool to apply in CD

# Thank you!



For more information contact:

**Radek Lawgmin**

Senior QA Engineer

[radek.lawgmin@cognifide.com](mailto:radek.lawgmin@cognifide.com)

For support contact:

[aet@cognifide.com](mailto:aet@cognifide.com)

or join:

<https://gitter.im/aet-tool/Lobby>



THE END