



**WordPress
Ventures**

How to **transform** your **security & performance** for clients and end users

Sponsors



Today's Hosts & Presenters

Keynote Speaker:

Max Matloka / Head of Product - SiteBox

Q&A:

Paul Fawcett / Head of Agency Partnerships - SiteBox

Kasia Wegrzyn / Head of Customer Success - SiteBox

12 February 2025, 12:00 PM UK time

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What we'll cover in today's session



Paul Fawcett
Co-Founder
SiteBox

1 Security

Building a Secure Framework to avoid being hacked

Max Matloka
Head of Product, SiteBox

2 Performance

World-class Digital experiences that Perform

Paul Fawcett
Head of Agency Partnerships SiteBox

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Keynote Session: Security

Building a Secure Framework to avoid being Hacked



Max Matloka
Head of Product
SiteBox

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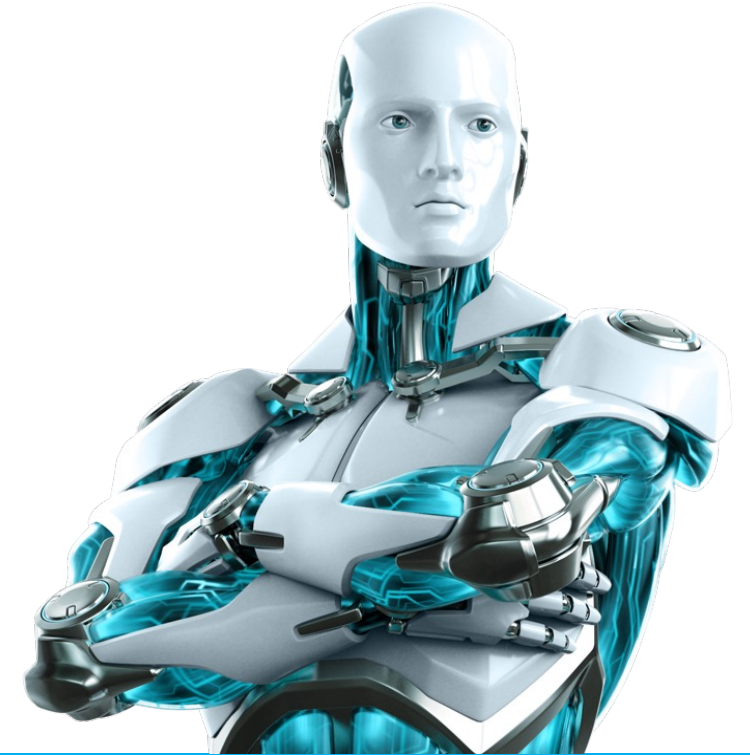
A story behind the Security Framework



Max Matloka
Head of Product
SiteBox

The last 36 months spent discovering security best practice within the WordPress eco-system:

- Countless number of hardening articles,
- Inspecting code of most popular security solutions
- Going through vulnerability databases.



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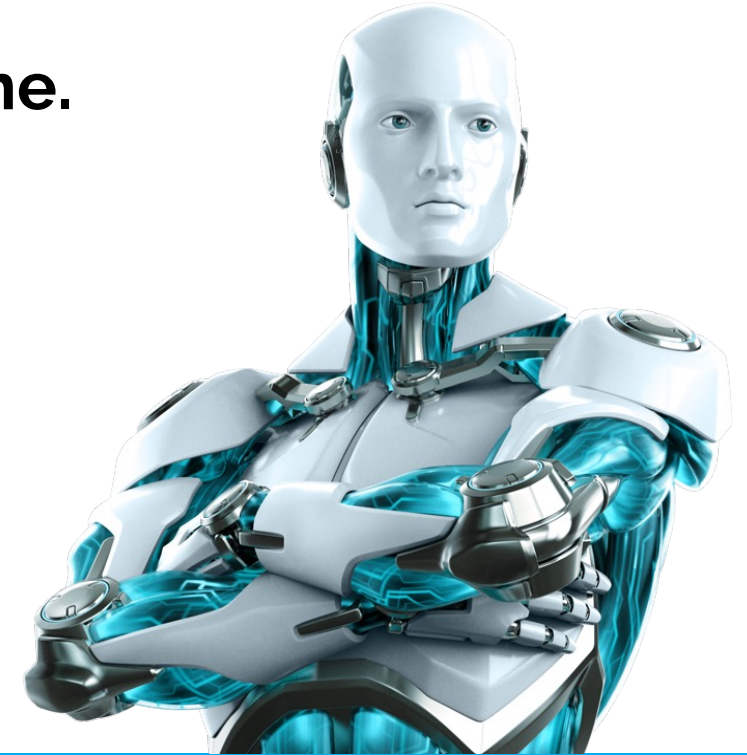
What is the Security Framework?



Max Matloka
Head of Product
SiteBox

This document outlines established WordPress security practices and is designed to evolve over time.

- Addresses over 60 security concerns.
- Raises awareness of risks associated with website management.
- Applies to both the WordPress website and our organization.



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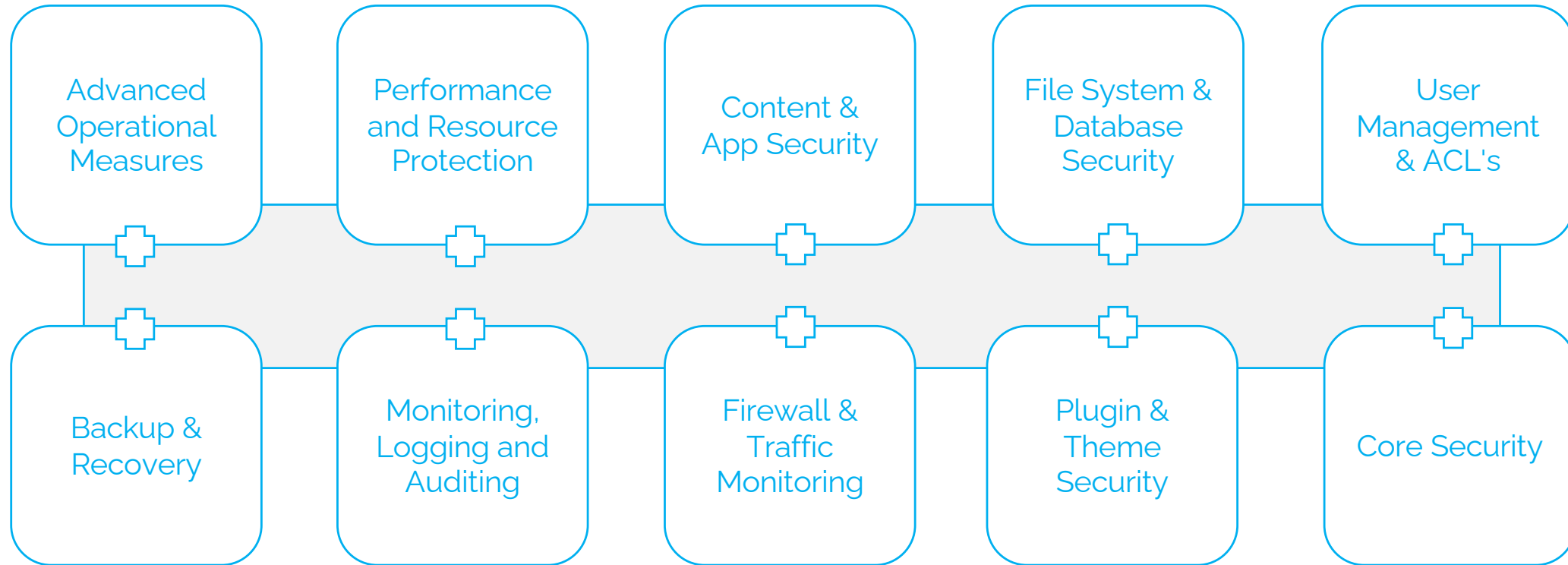


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WordPress Security Framework



Max Matloka
Head of Product
SiteBox



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Max Matloka
Head of Product
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What happens if we don't follow these protocols?



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How the results of hacking experiments, helped define a Security Framework



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Terraform



New Relic



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timestamp	message	path
17:55:47.000		/workspace/drupal/vendor/phpunit/phpunit/src/Util/PHP/eval-stdin.php
17:55:47.000		/panel/vendor/phpunit/phpunit/src/Util/PHP/eval-stdin.php

Since Nov 19, 04:29 pm until Nov 19, 04:54 pm

Timestamp	Message
November 19, 2024 16:54:03	Connection closed by invalid user uftp 95.214.227.188 ...
November 19, 2024 16:54:03	Invalid user uftp from 95.214.227.188 port 46824
November 19, 2024 16:52:04	Connection closed by invalid user alex 95.214.227.188 ...
November 19, 2024 16:52:04	Invalid user alex from 95.214.227.188 port 33050
November 19, 2024 16:51:07	Connection closed by invalid user oracle 95.214.227.188 ...
November 19, 2024 16:51:07	Invalid user oracle from 95.214.227.188 port 46640
November 19, 2024 16:46:15	Connection closed by invalid user gpadmin 95.214.227.188 ...
November 19, 2024 16:46:15	Invalid user gpadmin from 95.214.227.188 port 54750
November 19, 2024 16:46:00	Connection closed by invalid user 12345 92.255.185.188 ...
November 19, 2024 16:46:00	Invalid user 12345 from 92.255.185.188 port 58898

```

t/src/Util/PHP/eval-stdin.php
/src/Util/PHP/eval-stdin.php
src/Util/PHP/eval-stdin.php
=1732038948.2930369377136230468750
pp/invokefunction&function=call_user_func_array&vars[0]=md5(
hink\app/invokefunction&function=call_user_func_array&vars[0
../usr/local/lib/php/pearcmd&+config-create+/&/<?echo(md5(
../usr/local/lib/php/pearcmd&+config-create+/&/<?echo(md5(
../tmp/index1
  
```

Log details

Nov 19, 2024 15:24:03.000

```

Message
Invalid user a from 92.255.185.188 port 29394
  
```

Formatted Unformatted

```

{
  host : "wordpress"
  ident : "sshd"
  message : "Invalid user a from 92.255.185.188 port 29394"
  newrelic.logPattern : "nr.DID_NOT_MATCH"
  newrelic.source : "api.logs"
  pid : "23803"
  plugin.type : "fluentd"
  plugin.version : "1.2.3"
  timestamp : 1732029843000
}
  
```

08:18:39.859	2024-11-20T08:18:39.859679Z	787	Connect	Access denied for user 'root'@'194.4	(using password: YES)
08:18:39.905	2024-11-20T08:18:39.905234Z	788	Connect	Access denied for user 'root'@'194.4	(using password: YES)

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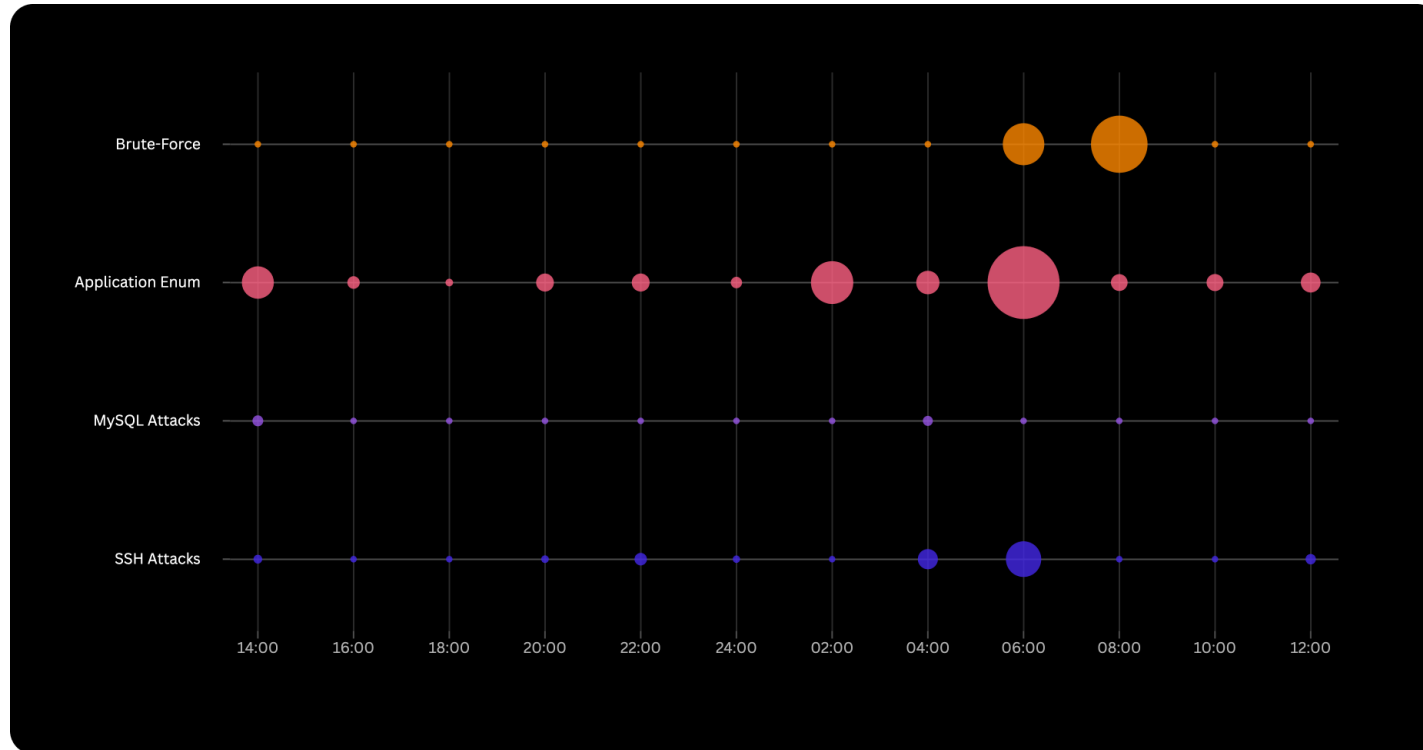
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Resulting in...



Max Matloka
Head of Product
SiteBox



150k
logs

1,500
log-in
attempts

~100
MySQL
attempts

500
SSH
attempts

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Experiment: Human Factor



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Head of Product
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1

Conclusion:

Human factors are still a source of risk.

2

Observations:

It's worrying that WordPress managers are aware of the risks, but do not have full visibility of their stack.

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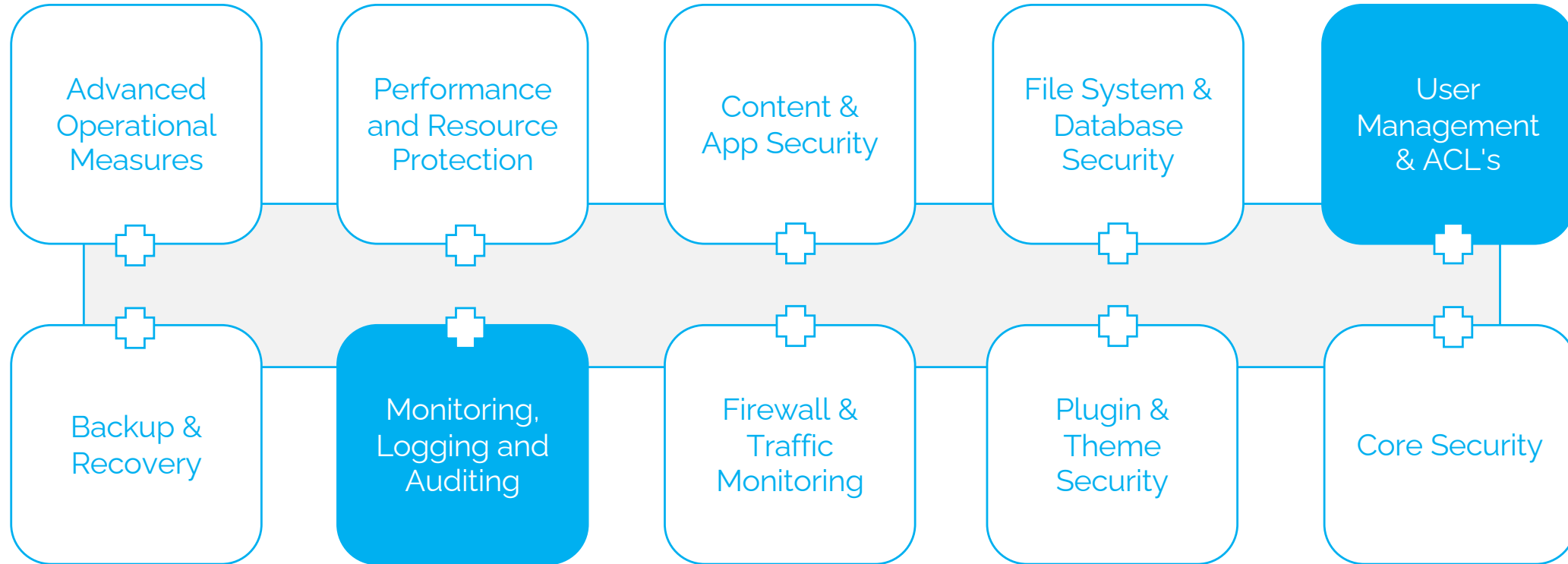


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Human Factor in Security Framework



Max Matloka
Head of Product
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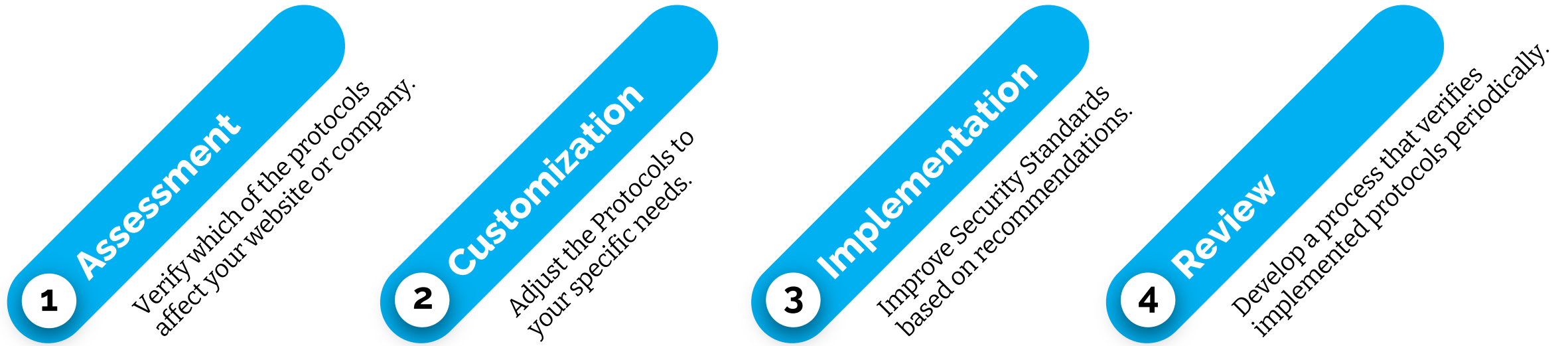


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Implement Framework



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Session 2: Performance

World-Class Digital experiences that Perform.



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Head of Agency
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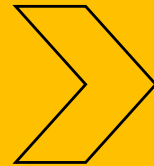
Improved Site Performance



Paul Fawcett
Head of Agency
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SiteBox



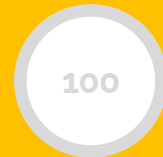
Performance



Metrics that matter



Accessibility



Best Practice



SEO

- **FCP** (First Content Paint)
- **SI** (Speed Index)



Grade



- **LCP** (Largest Contentful Paint)
- **TBT** (Total Blocking Time)
- **CLS** (Cumulative Layout Shift)



Vitals

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'Headless' Performance



Paul Fawcett
Head of Agency
Partnerships,
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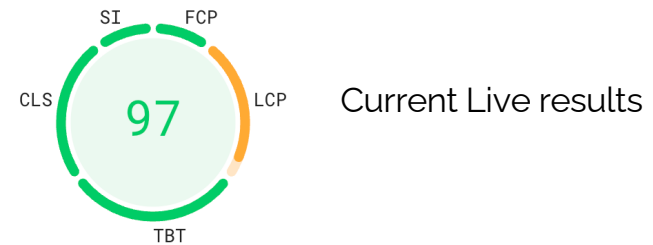
Pre 'Headless' Score

Post 'Headless' Score

Other problems solved



Reduced landing page payload from 40+Mb to 2mb
Saving 92% traffic consumption = Cost savings \$\$\$



69% EU Server response
81% Traffic savings = Cost savings \$\$\$
99% Cache improvement

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Case Study



Paul Fawcett
Head of Agency
Partnerships,
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US

Average Server Response (30 min avg)

175ms in SiteBox was 214ms

18% Improvement

Traffic Savings

Less data transferred from the server to visitors means better performance.

Data Transferred (as per GTMetrix)

2.84MB in SiteBox was 40.7MB

93% Improvement

Time To Live

With proper invalidation protocols, the longer content lives at the edge is better.

Cache Time To Live

30 days in SiteBox 5 minutes

99+% Improvement

GTMetrix

59 → 94

Previous Score SiteBox Score

Lighthouse

48 → 91

Previous Score SiteBox Score

No edits to codebase!

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'Accelerate' Feature



Paul Fawcett
Head of Agency
Partnerships,
SiteBox

Accelerator

Enables static site generation via the Dynamic Site Rendering (DSR) method. Cached content is served to visitors until invalidated by updates in the WordPress backend.

Update

What is Accelerator?

Accelerator converts your website into a static version using the Dynamic Site Rendering (DSR) method. The first visitor to your site generates a cached version, which is then stored until it is invalidated.

Does Accelerator support server-side processing?

Yes, by default, all POST requests are directed to the origin instance unless they are stopped by SiteBox Enclave. This setup allows using existing functionalities or the option to disable them completely, thereby making WordPress invisible to users.

How long does Accelerator cache the content?

Accelerator caches content in object storage until it is invalidated. This can happen in two ways: by manually flushing the cache in the SiteBox dashboard or by applying changes to the content on your WordPress instance.

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'Accelerate' Dashboard



Paul Fawcett
Head of Agency
Partnerships,
SiteBox

The screenshot shows the SiteBox Accelerate dashboard. The left sidebar contains navigation items: main, Overview, IDENTITY (Users, Teams), WEBSITE (Domains, Database, Enclave, Redirects, Cache, Accelerate (Beta), Variables), and TIMELINE (Snapshots). The main content area is titled 'Accelerate' with a 'Beta' badge. It includes three informational cards: 'What is Accelerator?', 'Does Accelerator support server-side processing?', and 'How long does Accelerator...'. Below these is the 'Accelerator' control panel, which features a green toggle switch (currently turned on) and an 'Update' button. A green circle highlights the toggle switch. Below the 'Accelerator' panel is the '103 Early Hints' section, also featuring a green toggle switch and an 'Update' button. A yellow arrow points from the highlighted toggle switch to the text 'Toggle Switch' and 'It's that easy!'.

Toggle Switch

It's that easy!

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Key Outcomes



Paul Fawcett
Head of Agency
Partnerships,
SiteBox

- 1 Headless** - Mitigates risk from front-end attacks.
- 2 Site Performance** - Improved SERP rankings
- 3 Reduced Cost** - Optimised static outputs (Payload)
- 4 Sustainable** - Low-to-No Carbon emissions

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Discussion:

Q&A

Security & Performance



Kasia Wegrzyn
Head of Customer
Success,
SiteBox

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**Thank you
for joining us!**



Paul Fawcett
Head of Agency Partnerships
SiteBox

Next
Event



Explore how design systems can optimise engagement and conversion

Discover how to build out your brand awareness across all digital platforms using a sophisticated design system.

March 19th 2025, 12pm-2pm
ALFI – 3 Crispin Place

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