How to Speed Up a Site with 500,000 Attachments

A case study

About me

I am a WordPress and PHP specialist

I started my first projects in the late 90s.

I worked on projects with millions of page impressions. As technical lead I developed custom themes, plugins, optimized performance and planned coming features.

I am a frequent speaker at WordPress events, and founder and co-host of the Meetup in Dortmund.

Currently I work as Senior Web Developer at Coding Pioneers in Iserlohn.

https://www.linkedin.com/in/christoph-daum/

Get to know the Project

Bonedo.de - a portal/magazine for musicians

Started as TYPO3 site

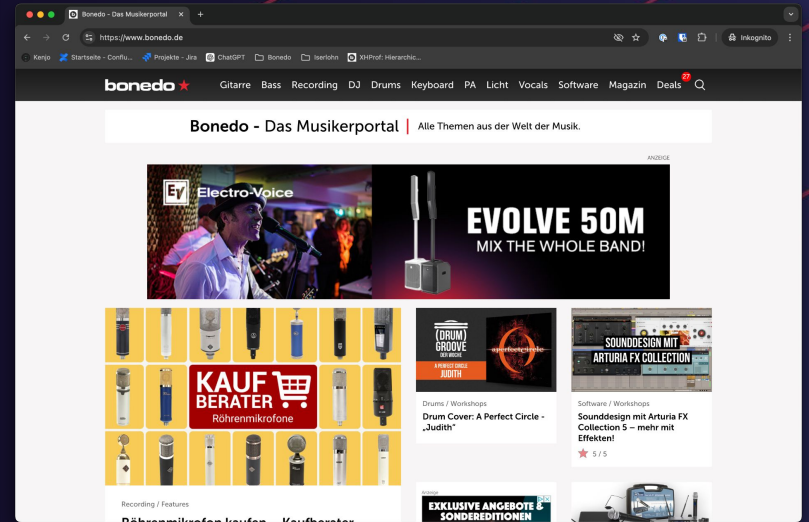**Relaunch as WordPress in 2020**

More than 30'000 posts

250'000+ Audio Attachments

300'000+ Image Attachments

I entered the project in May 2024

Frontend speed was ok, Backend speed was … terrible

Some before Numbers

	Before
Heartbeat	2.5 s
Saving a post	40+ s
Opening a post	8 s
Fully editable	15+ s

What we won't talk about

1. Frontend - Caching

2. Object Caching

3. Server Setup/Scaling

Topics

0. WordPress Plugins for profiling & debugging

- **Query Monitor**

- **Debug Bar**

- **Debug Bar Actions and Filters Addon**

- **Rewrite Rules Inspector**

1. **Tweaking heartbeat**

- **The default heartbeat fires every 30s**
- **Main use of heartbeat is locking posts and to log you out once the session expired**
- **We changed it via 'heartbeat_settings' to**
  - **Editor to 60s**
  - **Backend to 180s**
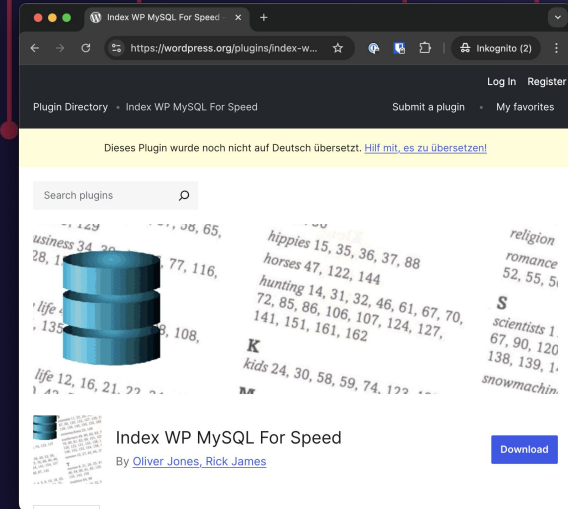 - **Frontend to 1h**

https://gist.github.com/apermo/

2. Optimizing the WordPress Database

After some research and some conversations I found the plugin

Index WP MySQL For Speed

Which was already validated as I found out later

https://wordpress.org/plugins/index-wp-mysql-for-speed/

3. Custom Tables + posts_clauses

- **Custom table creation via helper class**

- **Use via filters (posts_clauses)**

- **Replacing meta_queries with a simple join**

https://gist.github.com/apermo/

4. Optimizing Taxonomy Updates

After reading the blog by 11bytes, on their

1 million product WooCommerce

I optimized the taxonomy update following their example.

https://woo-million.11bytes.de/

5. Removing unused features

- **A feature which was and meant to be a search filter**
- **It never really worked**
- **It created 1400 taxonomies on every single request**
- **It caused about 10% overhead on average**

Current status?

Improved, but still not fast

8. Optimizing attachment_url_to_postid()

Evaluated adding an index to wp_postmeta

Used a custom table and a custom query.

Added the query to a custom table using 'query'

And created a ticket for a better bypass

https://core.trac.wordpress.org/ticket/61383

Will be released with 6.7 in November 2024

8. Optimizing attachment_url_to_postid()

SELECT post_id, meta_value FROM wp_postmeta WHERE meta_key = '_wp_attached_file' AND meta_value = '/2024/10/wordcamp_karlsruhe.jpg'

Whooping 4s
In words: four seconds

6. Better profiling with xhprof

- **Xhprof is great for profiling single requests**

- **Will not show an overview of request**

- **Will not show the request URI**

- **Will not show the database queries**

Xhprof without our toolset

xhprof.log

```
[2024-07-16 08:44:16 - 08:44:16] Δ 0.11 s | https://bonedo.ddev.site/xhprof/?run=6669632b0500a3&source=ddev | URI: /wp-admin/admin-ajax.php | POST(6 vars, 1.1 kb) | Referrer: /wp-admin/edit.php?post_type=test
[2024-07-16 08:46:16 - 08:46:16] Δ 0.13 s | https://bonedo.ddev.site/xhprof/?run=6669633854f8b&source=ddev | URI: /wp-admin/admin-ajax.php | POST(6 vars, 1.1 kb) | Referrer: /wp-admin/edit.php?post_type=test
[2024-07-16 08:48:16 - 08:48:16] Δ 0.13 s | https://bonedo.ddev.site/xhprof/?run=6669633d05504&source=ddev | URI: /wp-admin/admin-ajax.php | POST(6 vars, 1.1 kb) | Referrer: /wp-admin/edit.php?post_type=test
[2024-07-16 08:50:16 - 08:50:16] Δ 0.16 s | https://bonedo.ddev.site/xhprof/?run=6669634485e5d6&source=ddev | URI: /wp-admin/admin-ajax.php | POST(6 vars, 1.1 kb) | Referrer: /wp-admin/edit.php?post_type=test
[2024-07-16 08:52:16 - 08:52:16] Δ 0.13 s | https://bonedo.ddev.site/xhprof/?run=6669634c057a88&source=ddev | URI: /wp-admin/admin-ajax.php | POST(6 vars, 1.1 kb) | Referrer: /wp-admin/edit.php?post_type=test
[2024-07-16 08:52:49 - 08:52:49] Δ 0.12 s | https://bonedo.ddev.site/xhprof/?run=6669634e1087a8&source=ddev | URI: /wp-admin/admin-ajax.php | POST(6 vars, 1.1 kb) | Referrer: /wp-admin/edit.php?post_type=test
[2024-07-16 08:52:53 - 08:52:54] Δ 1.22 s | https://bonedo.ddev.site/xhprof/?run=6669634e64beda&source=ddev | URI: /wp-admin/post.php?post=1802483&action=edit | GET | Referrer: /wp-admin/edit.php?post_type=test
[2024-07-16 08:52:54 - 08:52:54] Δ 0.14 s | https://bonedo.ddev.site/xhprof/?run=6669634e68c65f&source=ddev | URI: /wp-admin/admin-ajax.php?action=wp-compression-test&test=1&_ajax_nonce=81a87b870a&1721119974433 | GET | Referrer: /wp-admin/post.php?post=1802483&action=edit
[2024-07-16 08:52:54 - 08:52:54] Δ 0.16 s | https://bonedo.ddev.site/xhprof/?run=6669634e693020&source=ddev | URI: /wp-json/wp/v2/taxonomies?context=edit&_locale=user | GET | Referrer: /wp-admin/post.php?post=1802483&action=edit
[2024-07-16 08:52:54 - 08:52:54] Δ 0.10 s | https://bonedo.ddev.site/xhprof/?run=6669634e6ad9d5&source=ddev | URI: /wp-admin/admin-ajax.php?action=wp-compression-test&test=no&_ajax_nonce=81a87b870a&1721119974603 | GET | Referrer: /wp-admin/post.php?post=1802483&action=edit
[2024-07-16 08:52:55 - 08:52:55] Δ 0.26 s | https://bonedo.ddev.site/xhprof/?run=6669634e74a662&source=ddev | URI: /wp-json/wp/v2/block-patterns/categories?_locale=user | GET | Referrer: /wp-admin/post.php?post=1802483&action=edit
[2024-07-16 08:52:55 - 08:52:55] Δ 0.25 s | https://bonedo.ddev.site/xhprof/?run=6669634e74b51b&source=ddev | URI: /wp-json/?_fields=description%2Cgmt_offset%2Chome%2Cname%2Csite_icon%2Csite_icon_url%2Csite_logo%2Ctimezone_string%2Curl&_locale=user | GET | Referrer: /wp-admin/post.php?post=1802483&action=edit
[2024-07-16 08:52:55 - 08:52:55] Δ 0.14 s | https://bonedo.ddev.site/xhprof/?run=6669634e76df54&source=ddev | URI: /wp-admin/admin-ajax.php | POST(7 vars, 1.5 kb) | Referrer: /wp-admin/post.php?post=1802483&action=edit
[2024-07-16 08:52:55 - 08:52:55] Δ 0.17 s | https://bonedo.ddev.site/xhprof/?run=6669634e774b88&source=ddev | URI: /wp-admin/admin-ajax.php | POST(7 vars, 1.8 kb) | Referrer: /wp-admin/post.php?post=1802483&action=edit
[2024-07-16 08:52:55 - 08:52:55] Δ 0.13 s | https://bonedo.ddev.site/xhprof/?run=6669634e7914fa&source=ddev | URI: /wp-admin/admin-ajax.php | POST(7 vars, 1.8 kb) | Referrer: /wp-admin/post.php?post=1802483&action=edit
[2024-07-16 08:52:55 - 08:52:55] Δ 0.15 s | https://bonedo.ddev.site/xhprof/?run=6669634e79bc3f&source=ddev | URI: /wp-admin/admin-ajax.php | POST(7 vars, 1.8 kb) | Referrer: /wp-admin/post.php?post=1802483&action=edit
[2024-07-16 08:52:55 - 08:52:55] Δ 0.18 s | https://bonedo.ddev.site/xhprof/?run=6669634e7bfe27&source=ddev | URI: /wp-admin/admin-ajax.php | POST(7 vars, 1.6 kb) | Referrer: /wp-admin/post.php?post=1802483&action=edit
[2024-07-16 08:52:55 - 08:52:55] Δ 0.16 s | https://bonedo.ddev.site/xhprof/?run=6669634e7c9f28&source=ddev | URI: /wp-admin/admin-ajax.php | POST(7 vars, 1.9 kb) | Referrer: /wp-admin/post.php?post=1802483&action=edit
[2024-07-16 08:52:55 - 08:52:55] Δ 0.24 s | https://bonedo.ddev.site/xhprof/?run=6669634e7cdd77&source=ddev | URI: /wp-admin/admin-ajax.php | POST(7 vars, 2.8 kb) | Referrer: /wp-admin/post.php?post=1802483&action=edit
[2024-07-16 08:52:55 - 08:52:55] Δ 0.84 s | https://bonedo.ddev.site/xhprof/?run=6669634e7dc0d3&source=ddev | URI: /wp-json/wp/v2/media/1802534?context=edit&_locale=user | GET | Referrer: /wp-admin/post.php?post=1802483&action=edit
[2024-07-16 08:52:55 - 08:52:55] Δ 0.19 s | https://bonedo.ddev.site/xhprof/?run=6669634e7f0774&source=ddev | URI: /wp-admin/admin-ajax.php | POST(7 vars, 1.6 kb) | Referrer: /wp-admin/post.php?post=1802483&action=edit
[2024-07-16 08:52:56 - 08:52:56] Δ 0.20 s | https://bonedo.ddev.site/xhprof/?run=6669634e80a0cf&source=ddev | URI: /wp-admin/admin-ajax.php | POST(7 vars, 2.9 kb) | Referrer: /wp-admin/post.php?post=1802483&action=edit
[2024-07-16 08:52:56 - 08:52:56] Δ 0.19 s | https://bonedo.ddev.site/xhprof/?run=6669634e81179&source=ddev | URI: /wp-admin/admin-ajax.php | POST(7 vars, 3.1 kb) | Referrer: /wp-admin/post.php?post=1802483&action=edit
[2024-07-16 08:52:56 - 08:52:56] Δ 0.19 s | https://bonedo.ddev.site/xhprof/?run=6669634e8172bf&source=ddev | URI: /wp-admin/admin-ajax.php | POST(7 vars, 2.5 kb) | Referrer: /wp-admin/post.php?post=1802483&action=edit
[2024-07-16 08:52:56 - 08:52:56] Δ 0.15 s | https://bonedo.ddev.site/xhprof/?run=6669634e824c5b&source=ddev | URI: /wp-admin/admin-ajax.php | POST(7 vars, 1.7 kb) | Referrer: /wp-admin/post.php?post=1802483&action=edit
[2024-07-16 08:52:56 - 08:52:56] Δ 0.14 s | https://bonedo.ddev.site/xhprof/?run=6669634e82eb0&source=ddev | URI: /wp-admin/admin-ajax.php | POST(7 vars, 1.3 kb) | Referrer: /wp-admin/post.php?post=1802483&action=edit
[2024-07-16 08:52:56 - 08:52:56] Δ 0.14 s | https://bonedo.ddev.site/xhprof/?run=6669634e83784&source=ddev | URI: /wp-admin/admin-ajax.php | POST(7 vars, 3.3 kb) | Referrer: /wp-admin/post.php?post=1802483&action=edit
[2024-07-16 08:52:56 - 08:52:56] Δ 0.13 s | https://bonedo.ddev.site/xhprof/?run=6669634e838bb1&source=ddev | URI: /wp-admin/admin-ajax.php | POST(7 vars, 1.3 kb) | Referrer: /wp-admin/post.php?post=1802483&action=edit
[2024-07-16 08:52:56 - 08:52:56] Δ 0.13 s | https://bonedo.ddev.site/xhprof/?run=6669634e846ca2&source=ddev | URI: /wp-admin/admin-ajax.php | POST(7 vars, 1.3 kb) | Referrer: /wp-admin/post.php?post=1802483&action=edit
[2024-07-16 08:52:56 - 08:52:56] Δ 0.12 s | https://bonedo.ddev.site/xhprof/?run=6669634e84ef24&source=ddev | URI: /wp-admin/admin-ajax.php | POST(7 vars, 0.4 kb) | Referrer: /wp-admin/post.php?post=1802483&action=edit
[2024-07-16 08:52:56 - 08:52:56] Δ 0.14 s | https://bonedo.ddev.site/xhprof/?run=6669634e85da9d&source=ddev | URI: /wp-admin/admin-ajax.php | POST(7 vars, 2.9 kb) | Referrer: /wp-admin/post.php?post=1802483&action=edit
[2024-07-16 08:52:56 - 08:52:56] Δ 0.16 s | https://bonedo.ddev.site/xhprof/?run=6669634e863c57&source=ddev | URI: /wp-json/wp/v2/users?context=view&who=authors&per_page=50&_fields=id%2Cname&_locale=user | GET | Referrer: /wp-admin/post.php?post=1802483&action=edit
[2024-07-16 08:52:56 - 08:52:56] Δ 0.15 s | https://bonedo.ddev.site/xhprof/?run=6669634e86f39&source=ddev | URI: /wp-json/wp/v2/taxonomies?context=edit&per_page=100&_locale=user | GET | Referrer: /wp-admin/post.php?post=1802483&action=edit
[2024-07-16 08:52:56 - 08:52:56] Δ 0.16 s | https://bonedo.ddev.site/xhprof/?run=6669634e87a69&source=ddev | URI: /wp-json/wp/v2/test/1802483?_locale=user | OPTIONS | Referrer: /wp-admin/post.php?post=1802483&action=edit
[2024-07-16 08:52:56 - 08:52:56] Δ 0.16 s | https://bonedo.ddev.site/xhprof/?run=6669634e8884ad&source=ddev | URI: /wp-json/wp/v2/wp_pattern_category?context=view&per_page=100&_fields=id%2Cname%2Cdescription%2Cslug&_locale=user | GET | Referrer: /wp-admin/post.php?post=1802483&action=edit
[2024-07-16 08:52:56 - 08:52:56] Δ 0.15 s | https://bonedo.ddev.site/xhprof/?run=6669634e888bc9&source=ddev | URI: /wp-json/wp/v2/themes?context=edit&status=active&_locale=user | GET | Referrer: /wp-admin/post.php?post=1802483&action=edit
[2024-07-16 08:52:56 - 08:52:56] Δ 0.15 s | https://bonedo.ddev.site/xhprof/?run=6669634e8944ca&source=ddev | URI: /wp-json/?_fields=description%2Cgmt_offset%2Chome%2Cname%2Csite_icon%2Csite_icon_url%2Csite_logo%2Ctimezone_string%2Curl&_locale=user | GET | Referrer: /wp-admin/post.php?post=1802483&action=edit
[2024-07-16 08:52:56 - 08:52:56] Δ 0.14 s | https://bonedo.ddev.site/xhprof/?run=6669634e89d3da&source=ddev | URI: /wp-json/wp/v2/users/667?context=view&_fields=id%2Cname&_locale=user | GET | Referrer: /wp-admin/post.php?post=1802483&action=edit
```

```
c@bonedo-web:/tmp/xhprof$ more xhprof.log
[2024-07-16 10:34:55 - 10:34:55] Δ 0.14 s | https://bonedo.ddev.site/xhprof/?run=66964ccfacbac&source=ddev | URI: /wp-admin/admin-ajax.php | POST(76 vars, 22.2 kb) | Referrer: /wp-admin/post.php?post=615818&action=edit
[2024-07-16 10:35:28 - 10:35:28] Δ 0.12 s | https://bonedo.ddev.site/xhprof/?run=66964cf036c58&source=ddev | URI: /wp-admin/admin-ajax.php | POST(6 vars, 0.2 kb) | Referrer: /wp-admin/post.php?post=615818&action=edit
[2024-07-16 10:34:55 - 10:37:12] Δ 136.67 s | https://bonedo.ddev.site/xhprof/?run=66964d5867d62&source=ddev | URI: /wp-json/wp/v2/test/615818?_locale=user | POST(0 vars, 58.9 kb) | Referrer: /wp-admin/post.php?post=615818&action=e
[2024-07-16 10:37:12 - 10:37:14] Δ 2.01 s | https://bonedo.ddev.site/xhprof/?run=66964d5a7f441&source=ddev | URI: /wp-admin/post.php?post=615818&action=edit&meta-box-loader=1&meta-box-loader-nonce=0d55fdbdb8&_locale=user | POST(67
[2024-07-16 10:37:14 - 10:37:16] Δ 1.84 s | https://bonedo.ddev.site/xhprof/?run=66964d5c5abd4&source=ddev | URI: /wp-admin/post.php?post=615818&action=edit&message=4 | GET | Referrer: /wp-admin/post.php?post=615818&action=edit
[2024-07-16 10:37:28 - 10:37:28] Δ 0.23 s | https://bonedo.ddev.site/xhprof/?run=66964d68495ef&source=ddev | URI: /wp-admin/admin-ajax.php | POST(6 vars, 0.2 kb) | Referrer: /wp-admin/post.php?post=615818&action=edit
```
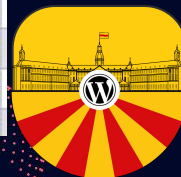
Additional information with our toolset blocking sessions

[2024-07-16 10:55:40 - 10:55:40] Δ 0.22 s | https://bonedo.ddev.site/xhprof/?run=669651acac557&source=ddev | URI: /wp/wp-admin/admin-ajax.php?action=wp-compression-test&test=no&_ajax_nonce=81a87b870a&1721127340486 | GET | Referrer: /
[2024-07-16 10:55:40 - 10:55:56] Δ 15.90 s | https://bonedo.ddev.site/xhprof/?run=669651bcc19f5&source=ddev | URI: /wp-json/wp/v2/blocks?context=edit&per_page=100&_locale=user | GET | Referrer: /wp/wp-admin/post.php?post=615818&action=edit
[2024-07-16 10:55:40 - 10:55:56] Δ 16.03 s | https://bonedo.ddev.site/xhprof/?run=669651bce2c52&source=ddev | URI: /wp-json/wp/v2/block-patterns/categories/?_locale=user | GET | Referrer: /wp/wp-admin/post.php?post=615818&action=edit
[2024-07-16 10:55:40 - 10:55:57] Δ 16.40 s | https://bonedo.ddev.site/xhprof/?run=669651bd4973f&source=ddev | URI: /wp-json/wp/v2/media/615820?context=edit&_locale=user | GET | Referrer: /wp/wp-admin/post.php?post=615818&action=edit
[2024-07-16 10:55:40 - 10:55:57] Δ 16.53 s | https://bonedo.ddev.site/xhprof/?run=669651bd6a873&source=ddev | URI: /wp-json/?_fields=description%2Cgmt_offset%2Chome%2Cname%2Csite_icon%2Csite_icon_url%2Csite_logo%2Ctimezone_string%2Cur
[2024-07-16 10:55:41 - 10:55:57] Δ 16.12 s | https://bonedo.ddev.site/xhprof/?run=669651bd9d0be&source=ddev | URI: /wp/wp-admin/admin-ajax.php | POST(7 vars, 1.1 kb) | Referrer: /wp/wp-admin/post.php?post=615818&action=edit
[2024-07-16 10:55:42 - 10:55:57] Δ 15.23 s | https://bonedo.ddev.site/xhprof/?run=669651bdba1f0&source=ddev | URI: /wp/wp-admin/admin-ajax.php | POST(7 vars, 0.5 kb) | Referrer: /wp/wp-admin/post.php?post=615818&action=edit
[2024-07-16 10:55:42 - 10:55:57] Δ 15.38 s | https://bonedo.ddev.site/xhprof/?run=669651bddc9e6&source=ddev | URI: /wp/wp-admin/admin-ajax.php | POST(7 vars, 1.2 kb) | Referrer: /wp/wp-admin/post.php?post=615818&action=edit
[2024-07-16 10:55:43 - 10:55:58] Δ 14.52 s | https://bonedo.ddev.site/xhprof/?run=669651be0b264&source=ddev | URI: /wp/wp-admin/admin-ajax.php | POST(7 vars, 0.7 kb) | Referrer: /wp/wp-admin/post.php?post=615818&action=edit
[2024-07-16 10:55:56 - 10:55:58] Δ 1.37 s | https://bonedo.ddev.site/xhprof/?run=669651be29529&source=ddev | URI: /wp/wp-admin/admin-ajax.php | POST(7 vars, 1.4 kb) | Referrer: /wp/wp-admin/post.php?post=615818&action=edit

Function Name	Calls	Calls%	Incl. Wall Time (microsec)	IWall%	Excl. Wall Time (microsec)
curl_exec	154	0.0%	14,278,594	89.8%	14,270,510
mysqli_query	285	0.0%	313,581	2.0%	313,581
WP_Hook::apply_filters@2	22,531	1.0%	340,726	2.1%	65,066

Function Name	Calls	Calls%	Incl. Wall Time (microsec)	IWall%	Excl. Wall Time (microsec)
session_start	1	0.0%	15,892,880	99.1%	15,892,880
preg_match	1,488	0.5%	7,126	0.0%	7,126
WP_Translation_File_MO::parse_file	8	0.0%	8,281	0.1%	6,073
WP_Hook::apply_filters@2	3,392	1.0%	7,378	0.0%	3,844

db.log

```
[2024-07-16 10:24:28] xhprof id: 66964a5c0b9b1, https://bonedo.ddev.site/xhprof/?run=66964a5c0b9b1&source=ddev
Total query time: 0.1224 s
Total queries: 73
Queries skipped: 73 (> 0.1 s)
Shown queries 0
----------------------------------------------------------------------
No queries took longer than 0.1 seconds.
```

Additional information with our toolset
slow SQL queries


```
cd@bonedo-web:/tmp/xhprof$ more xhprof.log
[2024-07-16 10:34:55 - 10:34:55] Δ 0.14 s | https://bonedo.ddev.site/xhprof/?run=66964ccfacbac&source=ddev | URI: /wp/wp-admin/admin-ajax.php | POST(76 vars, 22.2 kb) | Referrer: /wp/wp-admin/post.php?post=615818&action=edit
[2024-07-16 10:35:28 - 10:35:28] Δ 0.12 s | https://bonedo.ddev.site/xhprof/?run=66964cf036c58&source=ddev | URI: /wp/wp-admin/admin-ajax.php | POST(6 vars, 0.2 kb) | Referrer: /wp/wp-admin/post.php?post=615818&action=edit
[2024-07-16 10:34:55 - 10:37:12] Δ 136.67 s | https://bonedo.ddev.site/xhprof/?run=66964d5867d62&source=ddev | URI: /wp-json/wp/v2/test/615818?_locale=user | POST(0 vars, 58.9 kb) | Referrer: /wp/wp-admin/post.php?post=615818&action=edit
[2024-07-16 10:37:12 - 10:37:14] Δ 2.01 s | https://bonedo.ddev.site/xhprof/?run=66964d5a7f441&source=ddev | URI: /wp/wp-admin/post.php?post=615818&action=edit&meta-box-loader=1&meta-box-loader-nonce=0d55fdbdb8&_locale=user | POST(67 vars, 0.0
[2024-07-16 10:37:14 - 10:37:16] Δ 1.84 s | https://bonedo.ddev.site/xhprof/?run=66964d5c5abd4&source=ddev | URI: /wp/wp-admin/post.php?post=615818&action=edit&message=4 | GET | Referrer: /wp/wp-admin/post.php?post=615818&action=edit
[2024-07-16 10:37:28 - 10:37:28] Δ 0.23 s | https://bonedo.ddev.site/xhprof/?run=66964d68495ef&source=ddev | URI: /wp/wp-admin/admin-ajax.php | POST(6 vars, 0.2 kb) | Referrer: /wp/wp-admin/post.php?post=615818&action=edit
```

```
[2024-07-16 10:37:12] xhprof id: 66964d5867d62, https://bonedo.ddev.site/xhprof/?run=66964d5867d62&source=ddev
Total query time: 134.7482 s
Total queries: 358
Queries skipped: 306 (> 0.1 s)
Shown queries 52
----------------------------------------------------------------
[6.0875 s] SELECT post_id, meta_value FROM wp_postmeta WHERE meta_key = '_wp_attached_file' AND meta_value = '2022/08/2110_Modularsystem_planen_leicht_gemacht_1260x756_v01-1059136.jpg'
----------------------------------------------------------------
[2.4577 s] SELECT post_id, meta_value FROM wp_postmeta WHERE meta_key = '_wp_attached_file' AND meta_value = '2022/12/2212_Eurorack_erste_Schritte_1260x756_v01.jpg'
----------------------------------------------------------------
[2.3803 s] SELECT post_id, meta_value FROM wp_postmeta WHERE meta_key = '_wp_attached_file' AND meta_value = '2020/07/Doepfer_LowCost_Case.png'
----------------------------------------------------------------
[3.6287 s] SELECT post_id, meta_value FROM wp_postmeta WHERE meta_key = '_wp_attached_file' AND meta_value = '2020/07/A_100PMS12.png'
----------------------------------------------------------------
[2.6960 s] SELECT post_id, meta_value FROM wp_postmeta WHERE meta_key = '_wp_attached_file' AND
----------------------------------------------------------------
```

```
[2024-07-16 10:37:16] xhprof id: https://bonedo.ddev.site/xhprof/?run=66964d5c5abd4&source=ddev, 66964d5c5abd4
Total http requests time: 0.8035 s
Total http requests: 7
----------------------------------------------------------------
[0.1255 s] POST 200 https://external.service/get/recommendations/summary/ (0.2 kb ↑, 0.1 kb ↓)
Headers: none
Body: site=https%3A%2F%2Fbonedo.ddev.site%2Fwp&api_key=42&data%5Bpost_id%5D=0&data%5Bmax_results%5D=50
----------------------------------------------------------------
[0.1166 s] POST 200 https://external.service/get/recommendations/summary/ (0.2 kb ↑, 0.1 kb ↓)
Headers: none
Body: site=https%3A%2F%2Fbonedo.ddev.site%2Fwp&api_key=42&data%5Bpost_id%5D=0&data%5Bmax_results%5D=5000
----------------------------------------------------------------
[0.1609 s] POST 200 https://external.service/get/recommendations/summary/ (0.2 kb ↑, 0.1 kb ↓)
Headers: none
```

http.log

```
[2024-07-16 08:53:07] xhprof id: https://bonedo.ddev.site/xhprof/?run=669634f34536a&source=ddev, 669634f34536a
Total http requests time: 0.2178 s
Total http requests: 2
-------------------------------------------------------------------
[0.1086 s] POST 200 https://external.service/get/recommendations/summary/ (0.2 kb ↑, 0.1 kb ↓)
Headers: none
Body: site=https%3A%2F%2Fbonedo.ddev.site%2Fwp&api_key=123456789abcdef&data%5Bpost_id%5D=0&data%5Bmax_results%5D=50
-------------------------------------------------------------------
[0.1092 s] POST 200 https://external.service/get/recommendations/summary/ (0.2 kb ↑, 0.1 kb ↓)
Headers: none
Body: site=https%3A%2F%2Fbonedo.ddev.site%2Fwp&api_key=123456789abcdef&data%5Bpost_id%5D=0&data%5Bmax_results%5D=5000
-------------------------------------------------------------------
```

Xhprof with our toolset

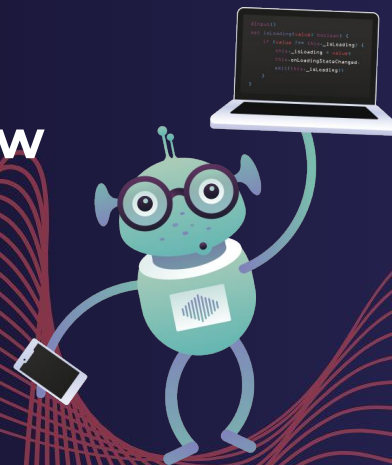https://github.com/coding-pioneers/xhprof-toolset

7. Redis for PHP Sessions

- **By default session_start() is blocking**

  Multiple requests in short succession will slow

  each other down

- **session_start() is used by Ninja Firewall**

- **Using Redis for sessions will prevent this**

Some Numbers

	Before	After
Heartbeat	2.5 s	0.7 s
Saving a post	40+ s	9 s
Opening a post	8 s	2 s
Fully editable	15+ s	4 s

ASK MORE QUESTIONS

– Anthony Burill

Thank you for your attention