



# Open Standards in Scaling WordPress

using Kubernetes



Hi, I'm Călin

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## First WP website in 2006



**BEST**  
www.BEST.eu.org

**JobShop**  
Career Test Drive  
Universitatea "Politehnica" Timișoara  
27 martie - 6 aprilie

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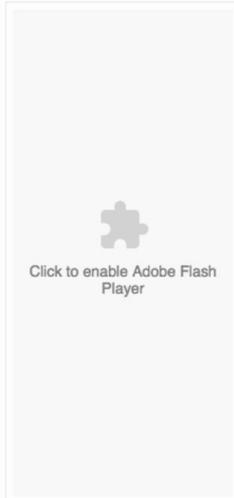
### Bine ai venit la ediția a 13-a a JobShop®!

Avem ceva ce poate să-ți schimbe programul pe toată săptămâna. Ești gata?

Săptămâna viitoare la JobShop® 2006 vor avea loc prezenări ale următoarelor companii, în această ordine:

- RDS&RCS
- TRW Automotive
- SSI Schaefer
- Océ Software
- Honeywell - Honeywell Awards
- Siemens VDO
- Oltechim
- P&G
- Azur
- Hella
- Takata
- Yazaki
- BOS Automotive
- Route 66
- Freescale

Pe lângă toate acestea, doritorii mai pot participa la training-ul de **Career Management** susținut de A&C Consulting Centre

[Program »](#)

### JobShop® 2006 Live!

#### Delphi Packard - Prezentare



Amfiteatrul 150 a fost plin de studenți interesați de cariera lor, prilej cu care cei 4 manageri ai companiei...

Publicat în 31 martie. Citește -



# Hi, I'm Călin

First WP website in 2006

Since 2011 CTO of Presslabs

The image shows a screenshot of the Presslabs website and its dashboard. The website header includes the Presslabs logo and navigation links for Publishers, Agencies, Enterprises, Specifications, and Login. The main heading is "Smart Managed WordPress Hosting", with a subtext stating "Presslabs provides high-performance hosting and business intelligence for the WordPress sites you care about." and a "Get Started" button. Below this is a section titled "Turn overlooked data into actionable insights" with a subtext: "Presslabs puts you in a very comfortable seat with a 360° overview of your site's performance, from which you can take data-driven decisions. Benefit from actionable points to save time, stay in complete control and continuously improve the KPIs of your business." To the right is a screenshot of the dashboard, which displays various metrics and charts under the heading "Sites". The dashboard includes sections for "DEV" environments, "DNS Zones", "Certificates", "Quick Access", "Latest site backups", and "Site Codebase".

Some of our happy clients



[More clients →](#)

Review Signal  
2018

Enterprise WordPress Hosting Performance Benchmarks (2018)

A regular in our testing, this is the first year PressLabs jumped up to compete in the Enterprise tier. And they did fantastic. 100% uptime. Almost no errors on Load Storm and a perfect Load Impact test. They even had the best rating on their SSL certificate. Great to see Presslabs jump up to play with the biggest boys and earn a Top Tier performance award.

Kevin Cheah

# Current Standards in the WordPress ecosystem

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WordPress naming guidelines

# Current Standards in the WordPress ecosystem

- ✓ WordPress naming guidelines
- ✓ Core coding standards

# Current Standards in the WordPress ecosystem

- ✓ WordPress naming guidelines
- ✓ Core coding standards
- ✓ Plugins and themes definition standard



● **wordpress**  
Search term

+ Compare

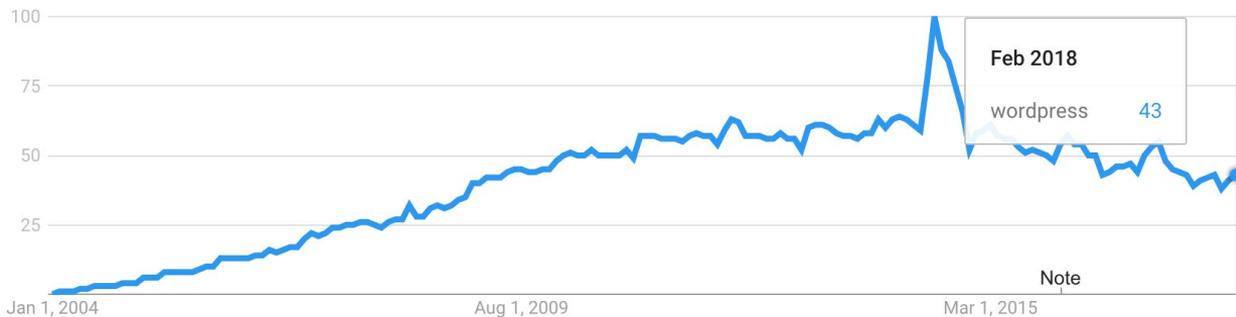
Worldwide ▾

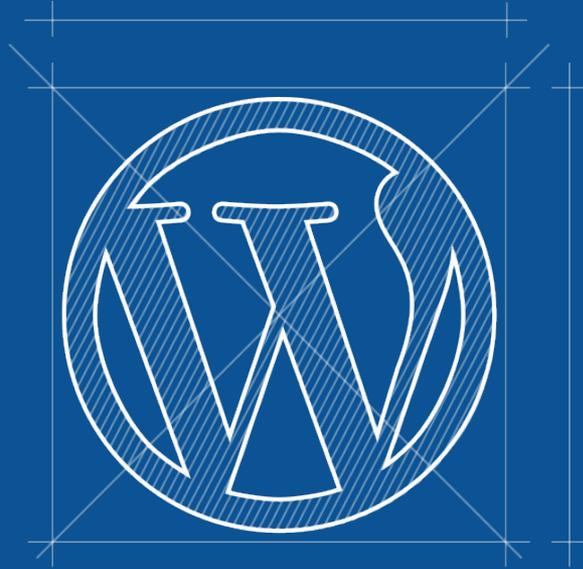
2004 - present ▾

All categories ▾

Web Search ▾

Interest over time ?





**WordPress is moving  
towards standardization**



Tide is a series of automated tests run against the WordPress.org directory and then displays PHP compatibility and errors/warnings

XWP

— XWP's project tide for code quality

<https://make.wordpress.org/tide/>



All plugins that collect personal data or set cookies can output some concise information about what they collect and store and why. This information should be phrased for inclusion in the site's privacy policy.

— WordPress core GDPR compliance effort

<https://make.wordpress.org/core/2018/03/28/roadmap-tools-for-gdpr-compliance/>



**“Everyone is doing roughly  
the same thing”**

— Overheard at a few Wordcamps, when  
speaking about Managed Hosting



# Why can't we be friends?

The data portability flaw



# Who really owns the data?

The ownership flaw

Solution?



**Define and implement an open  
standard for WordPress hosting**

[hawp.io](https://hawp.io)

# Consequences

✓ Own your data

# Consequences

- ✓ Own your data
- ✓ Democratize hosting

# Consequences

- ✓ Own your data
- ✓ Democratize hosting
- ✓ Good practices for devops



# Steps to reach the goal

Open-source hosting platform on  
Kubernetes



Why Kubernetes?

# The big Kubernetes picture

# The big Kubernetes picture



# The big Kubernetes picture



# The big Kubernetes picture



# The big Kubernetes picture



WordPress Chart



MySQL



Memcached



Presslabs  
Runtime

# The big Kubernetes picture



WordPress Chart



presslabs/mysql-operator

MySQL



Memcached



presslabs/runtime

Presslabs  
Runtime



The Open  
Presslabs stack



presslabs/stack

# How to

```
helm repo add presslabs https://charts.presslabs.org/
```

```
helm install --namespace presslabs-sys presslabs/stack
```

```
helm install -n my-site presslabs/wordpress --set="mainDomain=my-site.com"
```

Demo  
time!

# Demo time!

- ✓ Deploy a live scalable cluster
- Throw the Locust at it
- Rank it against top tier enterprise results

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How can I contribute?

[hawp.io](http://hawp.io)



Thank you!

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