

Kterak WordPress do cloudu nasadil jsem

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Software Engineer

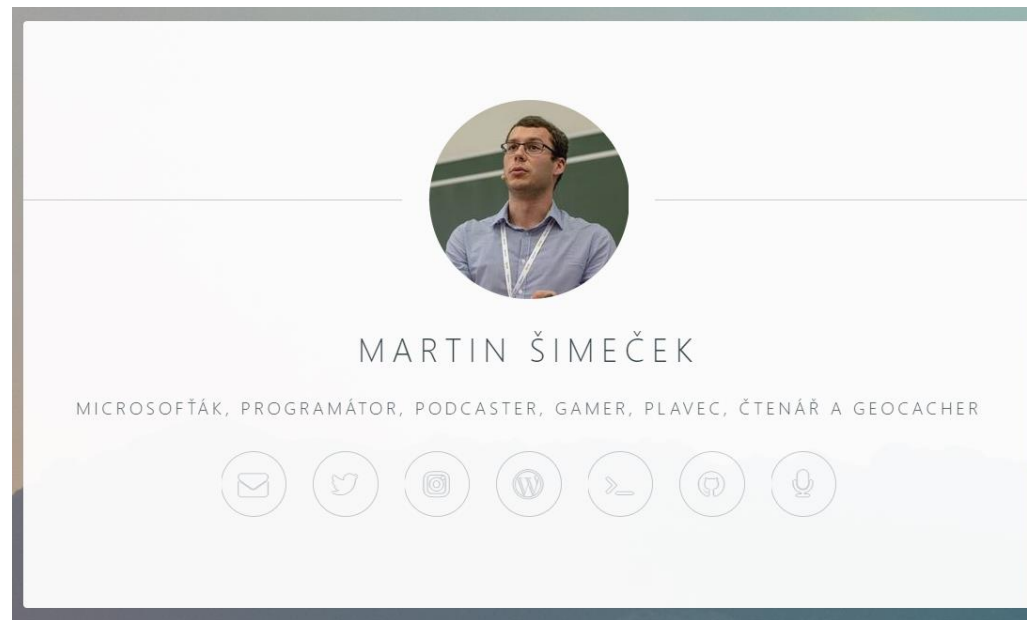
[@deedx](#)

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whoami?

5 years @ Microsoft

Consultant > Technical Evangelist > Software Engineer



<http://deedx.cz>

WordPress

My blog since 2010

<https://devlog.deedx.cz/windows-mobile-6-5/>

Microsoft tech blogs since 2015

<https://blogs.msdn.microsoft.com/vyvojari/>

WordPress in Azure

1. Virtual Machine ☹️
2. Web Apps for Windows 😊
3. Web Apps for Linux 😊
4. Docker container (with optional Kubernetes) 😊

- + MySQL as a service (no MariaDB yet ☹️)
- + Blob Storage for user content
- + CDN as a service
- + Redis as a service (if needed)
- + SSL included

Today



1. development

2. operations

Microsoft Azure

Development

The Fast Way

WordPress template in Azure

Search: wordpress

Results

NAME	PUBLISHER	CATEGORY
WordPress	WordPress	Web + Mobile
WordPress on Linux	WordPress	Web + Mobile
WordPress Multi-Tier	Bitnami	Compute
Hardened Wordpress on CentOS 7.3	Cognosys Inc.	Compute
Wordpress on Windows 2012 R2	CloudHub Technologies	Compute
WordPress Certified by Bitnami	Bitnami	Compute
WordPress on Windows Server 2016	CloudHub Technologies	Compute
WordPress Multisite Certified by Bitnami	Bitnami	Compute

WordPress Create

* App name: dxwp1 .azurewebsites.net

* Subscription: FTE MSDN

* Resource Group: Create new Use existing
WordPress-1

* Database Provider: Azure Database for MySQL (Preview)

* App Service plan/Location: wpplan(North Europe)

* Database: dxwp1-mysqldbserver

Application Insights: On Off

dxwp1 App Service

Overview

Resource group: WordPress-1
Status: Running
Location: North Europe
Subscription: FTE MSDN
Subscription ID: bf407486-0042-43af-a362-3bb21c8f9e2e
OS name: Windows Server 2016

URL: <https://dxwp1.azurewebsites.net>
App Service plan/pricing tier: wpplan (Free: 0 Small)
External Repository Project: <https://github.com/azureappservice/wordpress-azure>

Http 5xx: 0

Data In: 22.08 MB

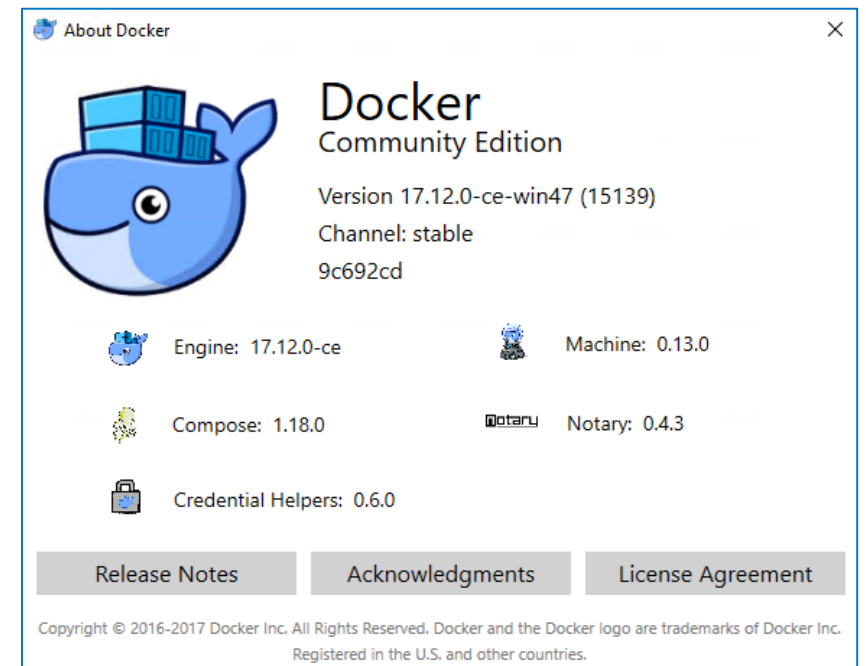
Development

...without (L/W)AMP

Docker in Azure VM (Hyper-V in Hyper-V)

- kaihofstetter/docker-wordpress-xdebug
- mysql

`docker-compose.yml`



Useful – Deployment Slots

+ Add Slot **↔ Swap**

NAME	STATUS	APP SERVICE PLAN
dxwp-dev-staging	Running	wpplan
dxwp-dev-beta	Running	wpplan

Swap □ ×

Choose which slots to swap

Swap type ⓘ
Swap ▼

Source
staging ▼


Destination
production ▼

Preview Changes 🔒
No Warnings

Useful - Identity

Azure Active Directory

Authentication / Authorization

 Anonymous access is enabled on the App Service app. Users will

App Service Authentication

Off On

Action to take when request is not authenticated

- Allow Anonymous requests (no action)
- Allow Anonymous requests (no action)
- Log in with Azure Active Directory
- Log in with Facebook
- Log in with Google
- Log in with Microsoft Account
- Log in with Twitter

Operations

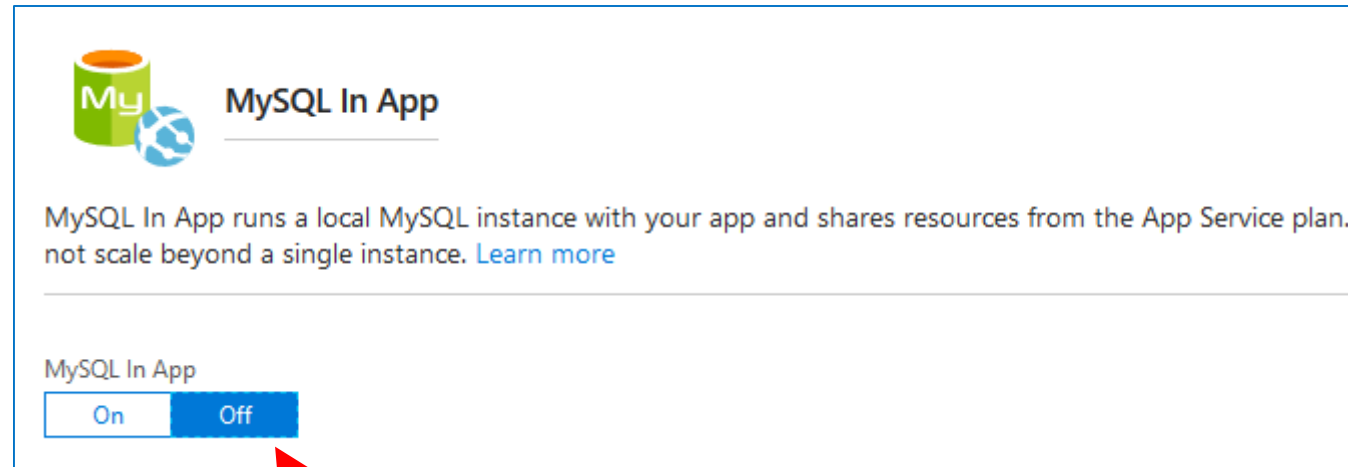
Performance 101


Turn the „Always On“ feature On



Performance 101

Don't use *MySQL in App* for production



 **MySQL In App**

MySQL In App runs a local MySQL instance with your app and shares resources from the App Service plan. not scale beyond a single instance. [Learn more](#)

MySQL In App

On Off

Performance 101

Use Azure Storage for user-generated content
(i.e. images)



Microsoft Azure Storage for WordPress Installing...
[More Details](#)

Use the Microsoft Azure Storage service to host your website's media files.

By 10up, Microsoft Open Technologies

★★★★☆ (5) Last Updated: 3 weeks ago
1,000+ Active Installations ✓ Compatible with your version of WordPress

Use Microsoft Azure Storage when uploading via WordPress' upload tab.
Note: Uncheck this to revert back to using your own web host for storage at anytime.

Survival 101

Understand how scaling works



„S1 -> S2“




„1 instance -> 2 instances“

- Manual
- Auto-scale

Performance 201

Use WP-SuperCache



WP Super Cache

A very fast caching engine for WordPress that produces static html files.

By *Automattic*

Active

[More Details](#)

★★★★☆ (1,344)

1+ Million Active Installations

Last Updated: 2 months ago

✓ **Compatible** with your version of WordPress

Watch out: Local Cache

Turning it on is tempting...

```
WEBSITE_LOCAL_CACHE_OPTION = Always
```

But... updates get lost on restart/redeploy

Can be useful when used with the Staging slot

Performance 201

CDN

Easy Advanced **CDN** Contents Preload Plugins Debug

Your website probably uses lots of static files. Image, Javascript and CSS files are usually static files that could just as easily be served from another site or CDN. There are `includes` directories (except for PHP files) on your site with the URL you provide below. That way you can either copy all the static content to a dedicated host or mirror it to a CDN.

WARNING: Test some static urls e.g., `http://wordpressdemo01cdn.azureedge.net/wp-includes/js/prototype.js` to ensure your CDN service is fully working before you create the CDN.

You can define different CDN URLs for each site on a multisite network.

Enable CDN Support

Off-site URL
*The new URL to be used in place of `http://wordpressdemo01.azurewebsites.net` for rewriting. No trailing `/` please.
Example: `http://wordpressdemo01cdn.azureedge.net/wp-includes/js/prototype.js`.*

Include directories
Directories to include in static file matching. Use a comma as the delimiter. Default is `wp-content, wp-includes`, which will be enforced if this field is empty.

Exclude if substring
Excludes something from being rewritten if one of the above strings is found in the match. Use a comma as the delimiter like this, `.php, .flv, .doc`.

CDN profile

* Subscription

* Resource group
 Create new Use existing

* Resource group location ⓘ

* Pricing tier (View full pricing details)

Create a new CDN endpoint now

* CDN endpoint name

.azureedge.net

* Origin type

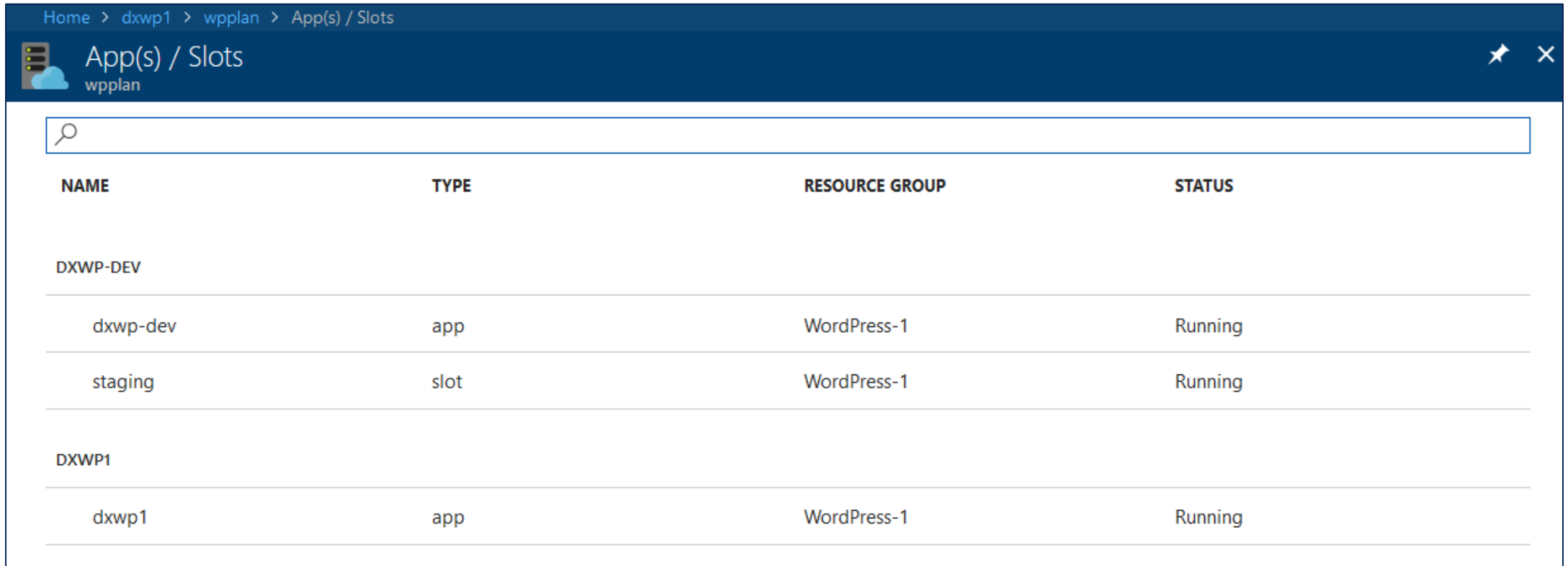
* Origin hostname ⓘ

Pin to dashboard

[Automation options](#)

Useful

Multiple sites on a service plan, paid only once



The screenshot shows the Azure portal interface for managing applications and slots. The breadcrumb navigation is 'Home > dxwp1 > wpplan > App(s) / Slots'. The page title is 'App(s) / Slots' for the service plan 'wpplan'. A search bar is located at the top of the table area. The table lists applications and slots, grouped by environment: DXWP-DEV and DXWP1. Each entry shows its name, type (app or slot), resource group (WordPress-1), and status (Running).

NAME	TYPE	RESOURCE GROUP	STATUS
DXWP-DEV			
dxwp-dev	app	WordPress-1	Running
staging	slot	WordPress-1	Running
DXWP1			
dxwp1	app	WordPress-1	Running

Unlimited for Standard, 10 for Free

Useful - Backup

App Service + MySQL

Backup Schedule

Configure the schedule for your app backup.

Scheduled backup On Off

* Backup Every

* Start backup schedule from

* Retention (Days)

Keep at least one backup

Backup Database

Select the databases you to include with your backup. The backup database list is based on the apps configured connection strings.

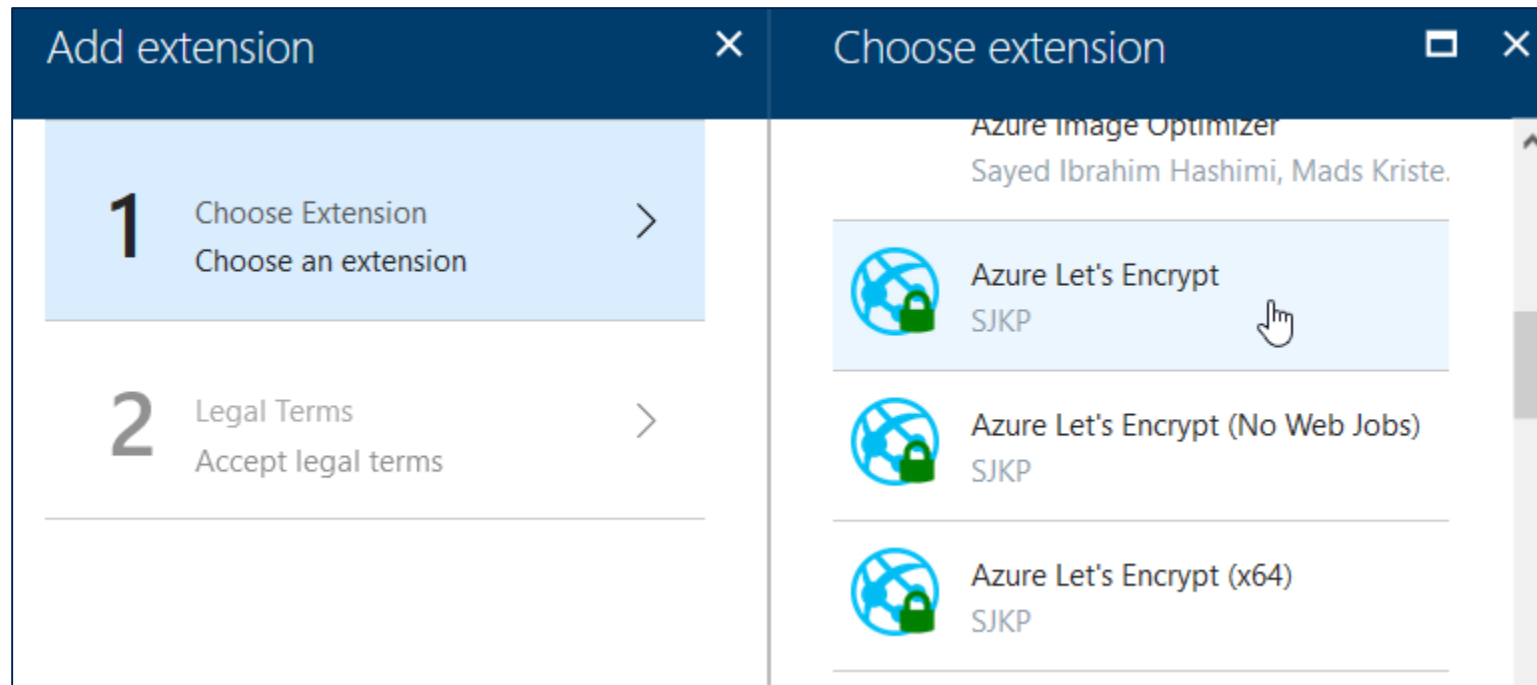
<input checked="" type="checkbox"/> INCLUDE IN BACKUP	CONNECTION STRING NAME	DATABASE TYPE
<input checked="" type="checkbox"/> ✓ Included	defaultConnection	MySQL Database

- App configuration
- File content
- Database

Useful - SSL

Default domain SSL included (great for dev/test)

Let's Encrypt extension



...with auto-renewal

Useful – E-mail



<https://docs.microsoft.com/en-us/azure/store-sendgrid-php-how-to-send-email>

Ending...

Try it yourself

Free services for 1 year – Web Apps, Virtual Machines

<https://www.visualstudio.com/dev-essentials/>

Free Trial – 1 month, \$200

<https://azure.microsoft.com/en-us/free/>

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