

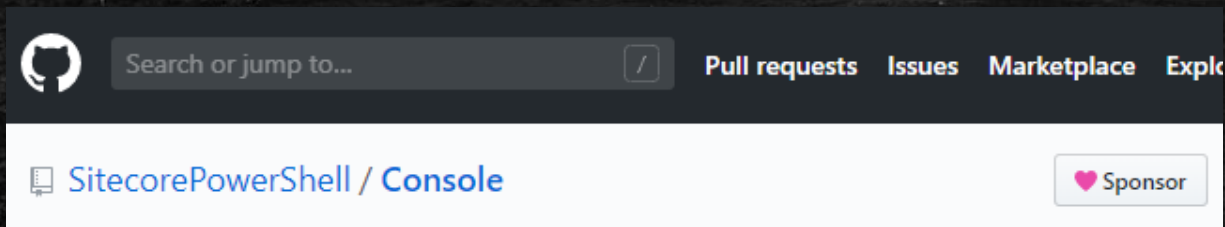
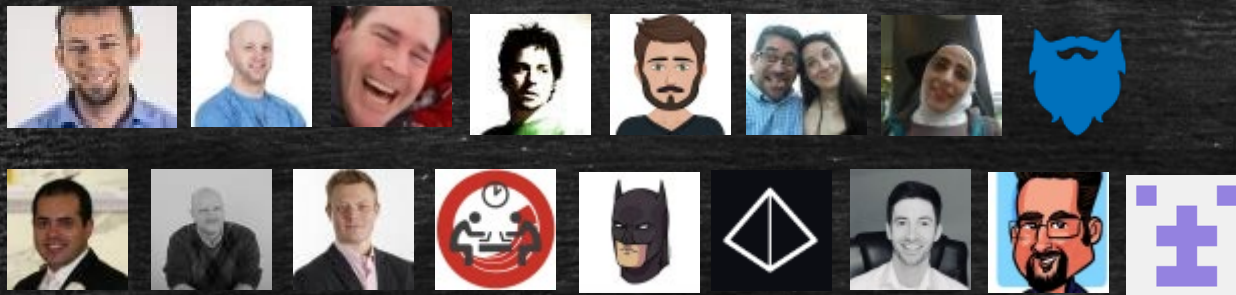


Sitecore + Docker

Improving Developer Workflow for SPE and SXA

:michael-west: @michaelwest101

GitHub Sponsors



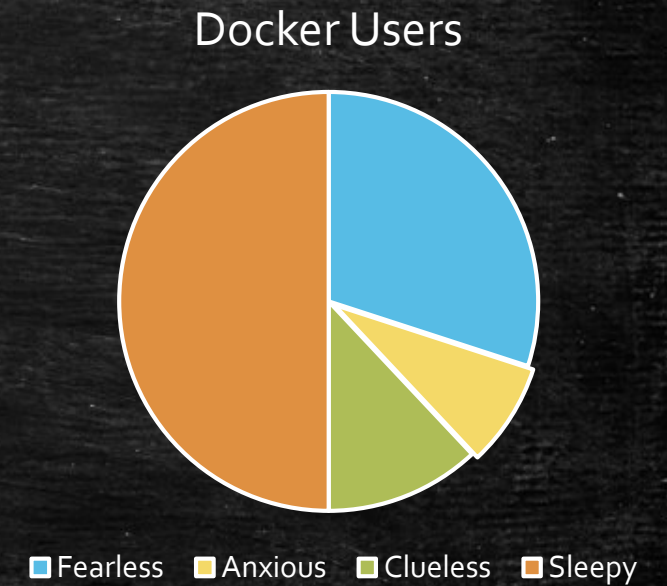
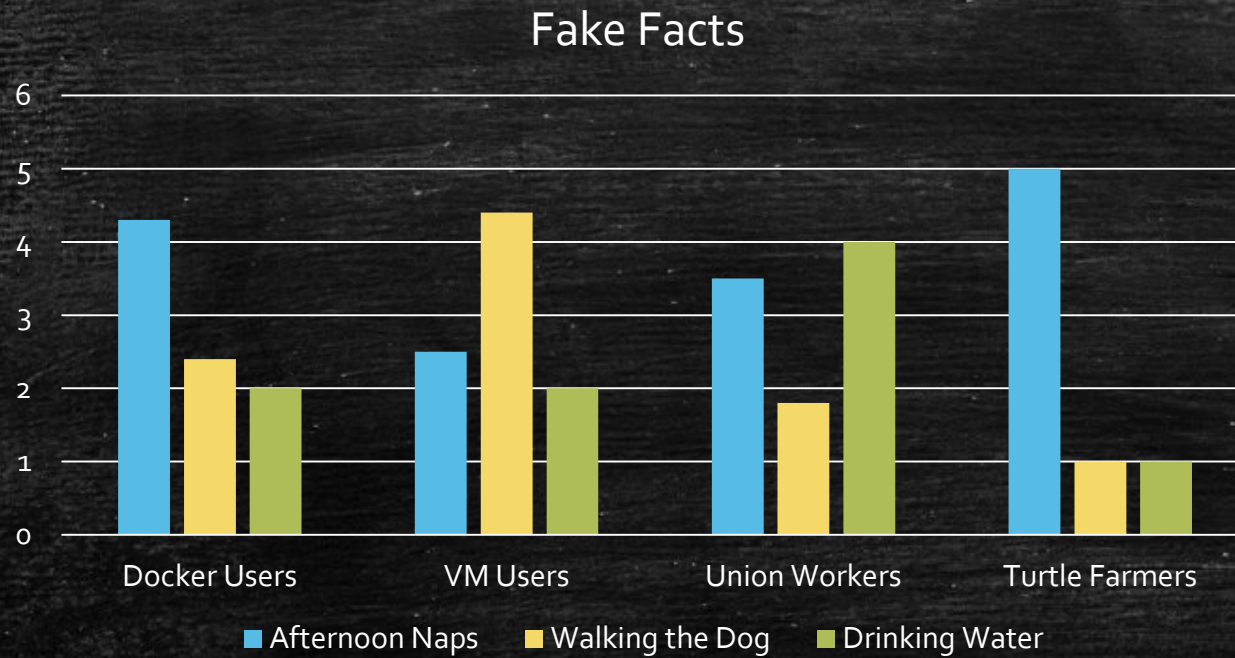
<https://github.com/sponsors/michaellwest>



Presentation Content

- Overview with helpful resources
- SPE codebase configured with CM container
- SXA Creative Exchange CLI with node container

Satisfaction Chart



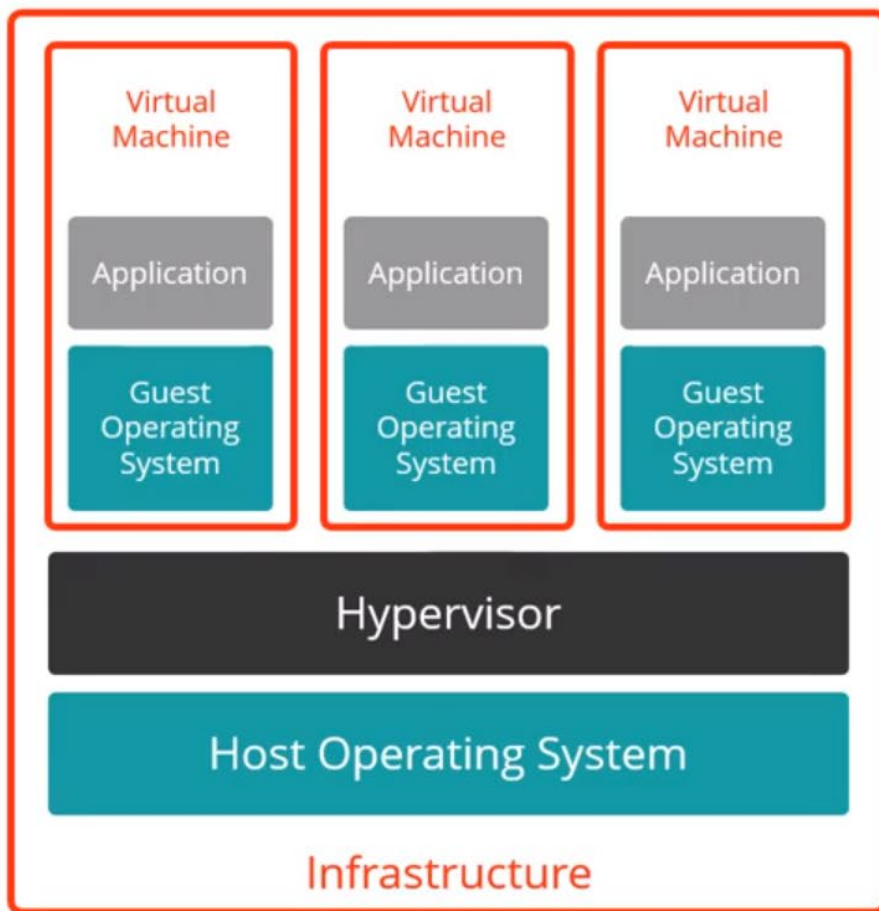
Overview

Helpful blogs and videos to jumpstart your adventure into Dockerland

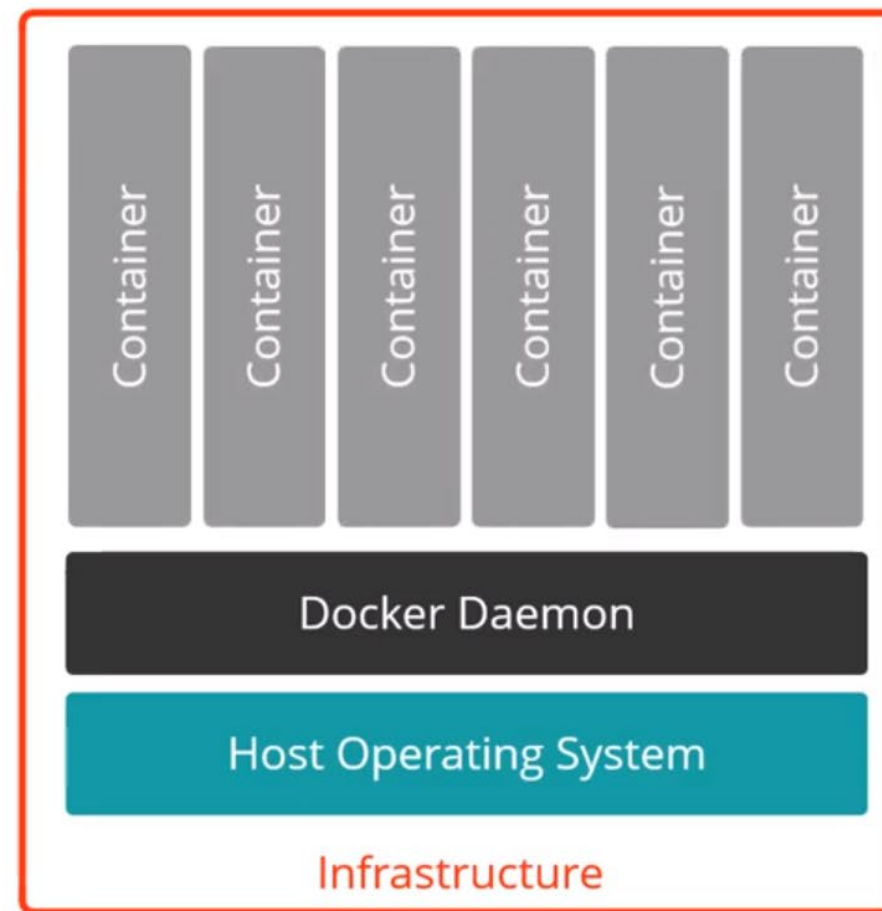
- [illegible]

Quick Intro – <https://www.youtube.com/watch?v=RMYGVOswIKk>
Image Repository - <https://www.youtube.com/watch?v=cA1CMdwrNVU>

Virtual Machines vs Containers

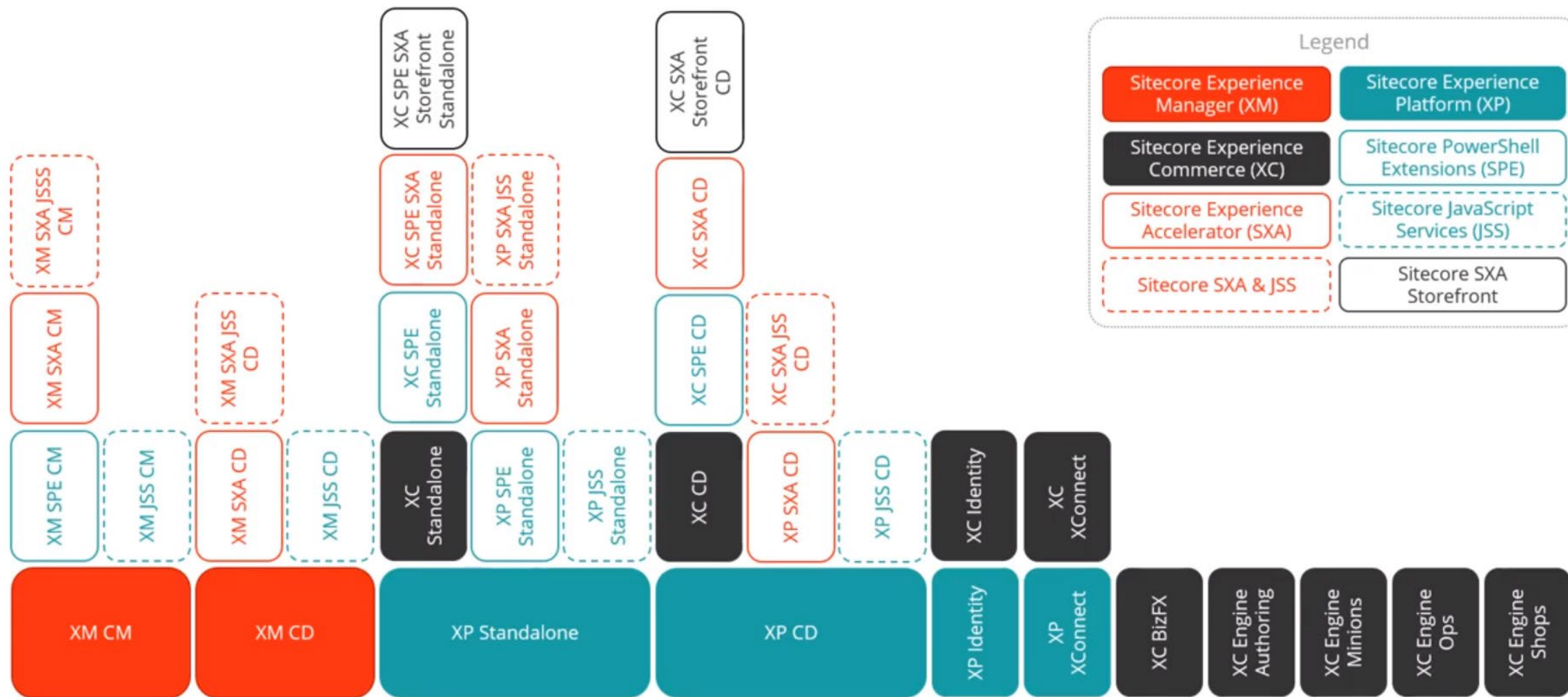


Virtual Machines

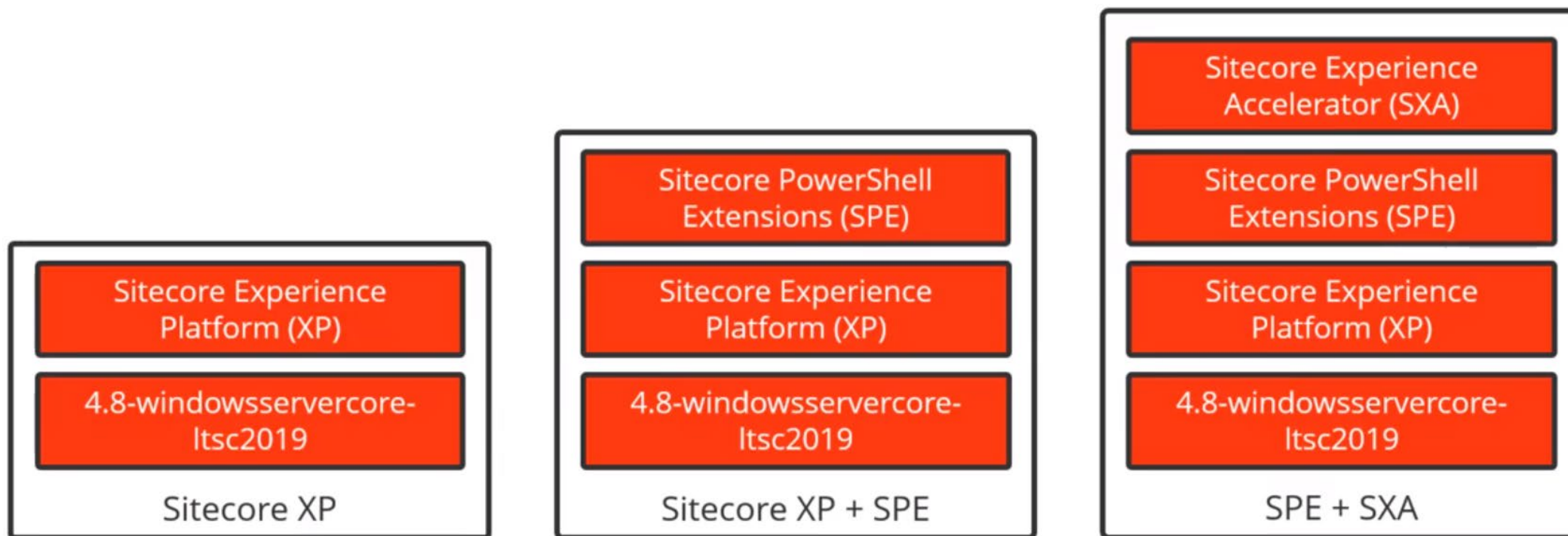


Containers

What Images are built?



What's inside an Image?



pboard

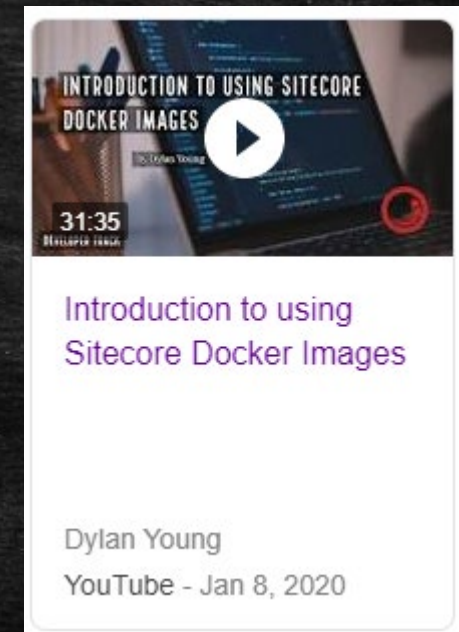
Organize New Open Select

> This PC > OS (C:) > Projects > Spe > data > sql

Name	Date modified	Type	Size
.gitkeep	1/19/2020 2:33 PM	GITKEEP File	0 KB
Sitecore.Core_Primary.Idf	4/15/2020 10:02 AM	SQL Server Databa...	73,728 KB
Sitecore.Core_Primary.mdf	4/15/2020 10:02 AM	SQL Server Databa...	73,728 KB
Sitecore.Experienceforms_Primary.Idf	4/15/2020 10:02 AM	SQL Server Databa...	8,192 KB
Sitecore.Experienceforms_Primary.mdf	4/15/2020 10:02 AM	SQL Server Databa...	8,192 KB
Sitecore.Master_Primary.Idf	4/15/2020 10:02 AM	SQL Server Databa...	73,728 KB
Sitecore.Master_Primary.mdf	4/15/2020 10:02 AM	SQL Server Databa...	73,728 KB
Sitecore.Sessions_Primary.Idf	4/15/2020 10:02 AM	SQL Server Databa...	8,192 KB
Sitecore.Sessions_Primary.mdf	4/15/2020 10:02 AM	SQL Server Databa...	8,192 KB
Sitecore.Web_Primary.Idf	4/15/2020 10:02 AM	SQL Server Databa...	73,728 KB
Sitecore.Web_Primary.mdf	4/15/2020 10:02 AM	SQL Server Databa...	73,728 KB

Overview : Dylan Young

- Introduction – January 2020
 - Getting started with building images
 - Running with Docker Compose
- Visual Studio
 - Setup from scratch
 - Publishing code to volume
- Unicorn
 - Setup serialization with volume



Quick Intro - <https://www.youtube.com/watch?v=SRsCgyPeCTg>

VS Setup - <https://www.youtube.com/watch?v=kuz7GFKyjFo>

Unicorn Setup - <https://www.youtube.com/watch?v=6FYapLQOLEo>

Overview : Aaron Bickle

- Sitecore Docker Dev Environment – February 2020
 - Walkthrough on basic setup
 - Docker Dashboard
 - Deploying Code
 - Configuring HTTPS and hosts file



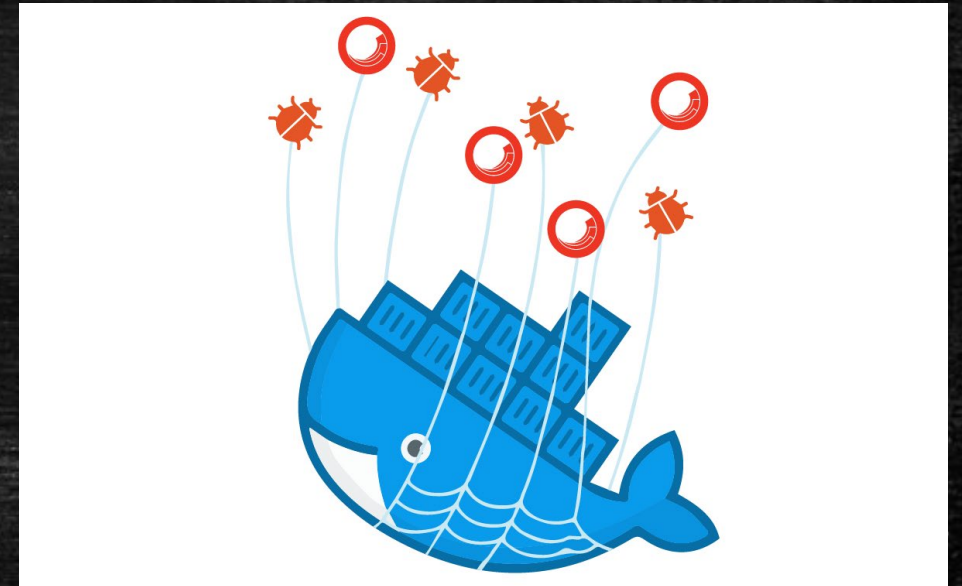
<https://www.xcentium.com/blog/2020/02/20/sitecore-docker-dev-environment>

<https://www.xcentium.com/blog/2020/02/22/sitecore-docker-part-2>

<https://www.xcentium.com/blog/2020/03/14/sitecore-docker-part-3>

Overview : Kamruz Jaman

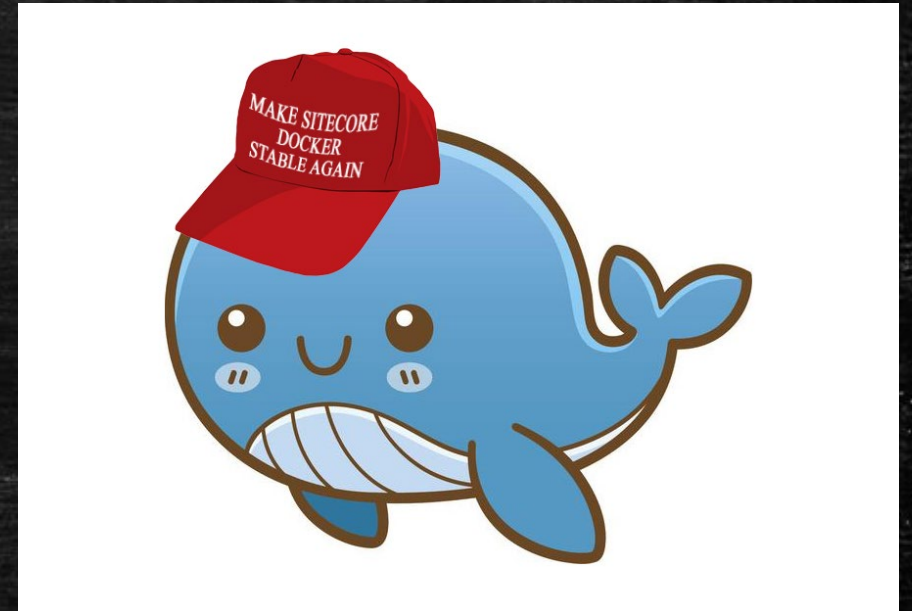
- Debugging Sitecore Docker Containers – April 2020
 - Visual Studio 2019 features
 - Docker Dashboard



<https://www.konabos.com/blog/tooling-to-help-debug-your-sitecore-docker-containers>

Overview : Akshay Sura

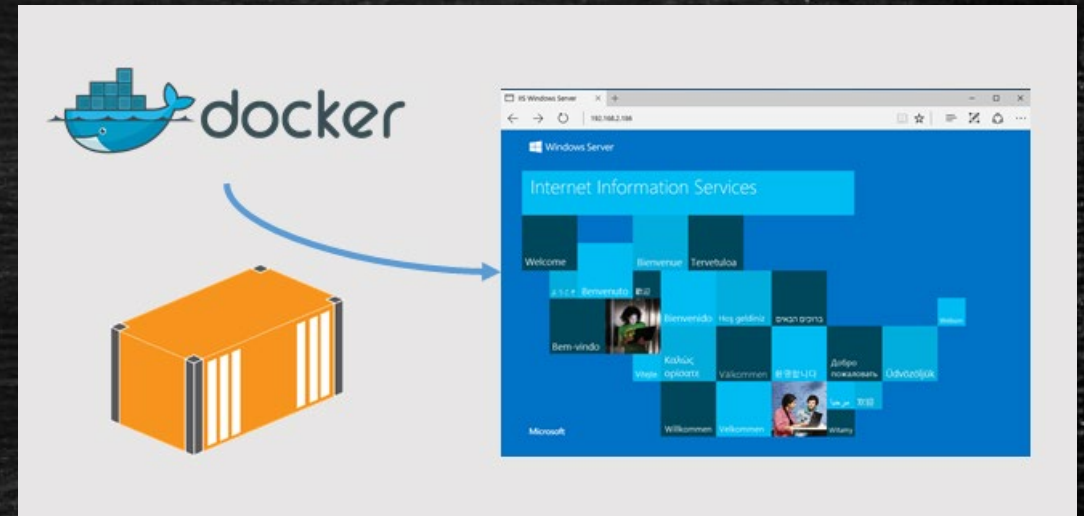
- SSL, CM, and Identity Server – April 2020
 - Configuring with SSL
 - Configuring with Identity Server



<https://www.konabos.com/blog/dockerify-your-sitecore-9-3-xp-development-environment-ssl-cm-and-identity.html>

Overview : Michael West

- Secure Docker Websites
 - Certs applied to host and IIS
- SXA CLI + node
 - Installing node in a container
 - Building SXA theme with CLI and CEL



<https://blog.sixeyed.com/1-2-3-iis-running-in-nano-server-in-docker-on-windows-server-2016/>

HTTPS + SXA CLI - https://www.youtube.com/playlist?list=PLph7ZchYd_nAUIgQD74gl7o33p5x-mX4T

Development Setup for SPE

- Benefits discovered
 - Testing across multiple Sitecore releases (8.2, 9.3)
 - Simplified and consistent setup for contributors
 - Reproducing bugs less time consuming
 - Restoring filesystem trivial
- Frustrations
 - Early debugging was sketchy – see posts by Konabos and Aaron
 - Deleting files in volume
 - Peeking into file system

[Source](#)

Containerized SXA Theme

- Benefits hosting in a container
 - Gulp (3.x) used by SXA CLI is a tad out-of-date, requires out-of-date node (11.x)
 - Installing multiple versions of gulp and node on the same machine is a pain
 - Low effort required to switch between projects
 - Issues with npm happen less often
 - Possible to work offline when everything baked into image

[Source](#)

<https://github.com/markvanaalst/SXA.Styleguide>

Demo

Fingers crossed!

Q & A

Now is a good time for questions

The End

Finish before all the difficult questions are asked