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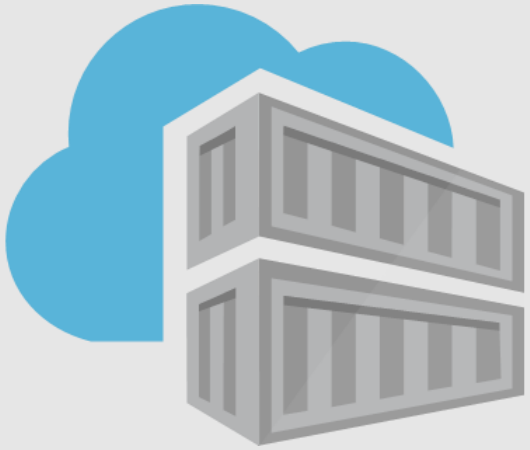
|---|---|---|---|
| | ✓ | 20180810.19 | master |
| | ✗ | 20180810.18 | master |
| | ✗ | 20180810.17 | master |
| | ✗ | 20180810.16 | master |
| | ✗ | 20180810.15 | master |
| | ✗ | 20180810.14 | master |
| | ✗ | 20180810.13 | master |
| | ✗ | 20180810.12 | master |
| | ✗ | 20180810.11 | master |
| | ✗ | 20180810.10 ••• | master |
| | ✗ | 20180810.9 | master |
| | ✗ | 20180810.8 | master |
| | ✗ | 20180810.7 | master |
| | ✗ | 20180810.6 | master |
| | ✗ | 20180810.5 | master |
| | ✗ | 20180810.4 | master |
| | ✗ | 20180810.3 | master |
| | ✗ | 20180810.2 | master |
| | ✗ | 20180810.1 | master |

# Azure App Service For Container With VSTS

Money Yu



# About Me

- 部落格：blog.developer.money
  - 學習學到老，撞牆撞到腦
- .NET、.NET Core、Azure、Cognitive Service

- Microsoft MVP
- Study4TW
- Azure Taiwan

# 大綱

- 科普
  - WebApp
  - Container & Docker
- Web App For Container
- 透過 VSTS 達成 CI/CD

# Web App 是甚麼

- PaaS 服務
- 提供多個常用的快捷服務
- 快速佈建與部署
- 可自動縮放的安全平台
- 監視、警示及自動調整
- 佈署位置
- 應用程式設定
- A/B Test
- 網域 / SSL
- Vnet

# Docker 是甚麼

- World's leading software container platform
- Containers are isolated, but share operating system (OS) and, where appropriate, binaries and libraries.
- Results in faster deployment,  much less overhead, easier migration, and faster restart.

# Why Containers?

## Developers

- Enable ‘write-once, run-anywhere’ apps
- Enables microservice architectures
- Great for dev/test of apps and services
- Production realism
- Growing Developer Community

## Operations

- Portability, Portability, Portability
- Standardized development, QA, and prod environments
- Abstract differences in OS distributions and underlying infrastructure
- Higher compute density
- Easily scale-up and scale-down in response to changing business needs

## DevOps

在我電腦是上好的

# Docker Terminology

- Docker images are read-only templates used to create containers. Each image contains a set of instructions for creating the containers, such as what programs to install, what folders and files to create, what volumes to mount, what port numbers to expose, and so on

- Docker Container is an isolated application platform. Containers are created from docker images.

# Web App For Linux (支援 Container)

## 透過程式碼

## 透過 Container

Web App for Containers

- ✓ 快速部屬到 Azure 雲端
- ✓ 根據需求簡單快速或自動的縮放
- ✓ Designed for your agile web development needs

# Web App for Containers

## High productivity development

- Deployment with ease
- CI/CD build and deploy
- Testing in production
- Staged deployment with slots

## Fully managed platform

- Built-in auto scale and load balancing
- High availability with auto-patching
- Monitoring and diagnosis
- Backup and recovery

## Enterprise-grade apps

- Global data center footprint
- Private registry support
- AAD integrated
- Secure + compliant

# 將你的應用程式容器化

Bring your own runtime

Bring your own stack

Joomla! CMS

# 本地佈署

- Docker CLI
- Use VS Code for Local development
  - Docker Extension
- Managing of Docker Image
  - Docker Hub
  - Azure Container registry

# 佈署方式

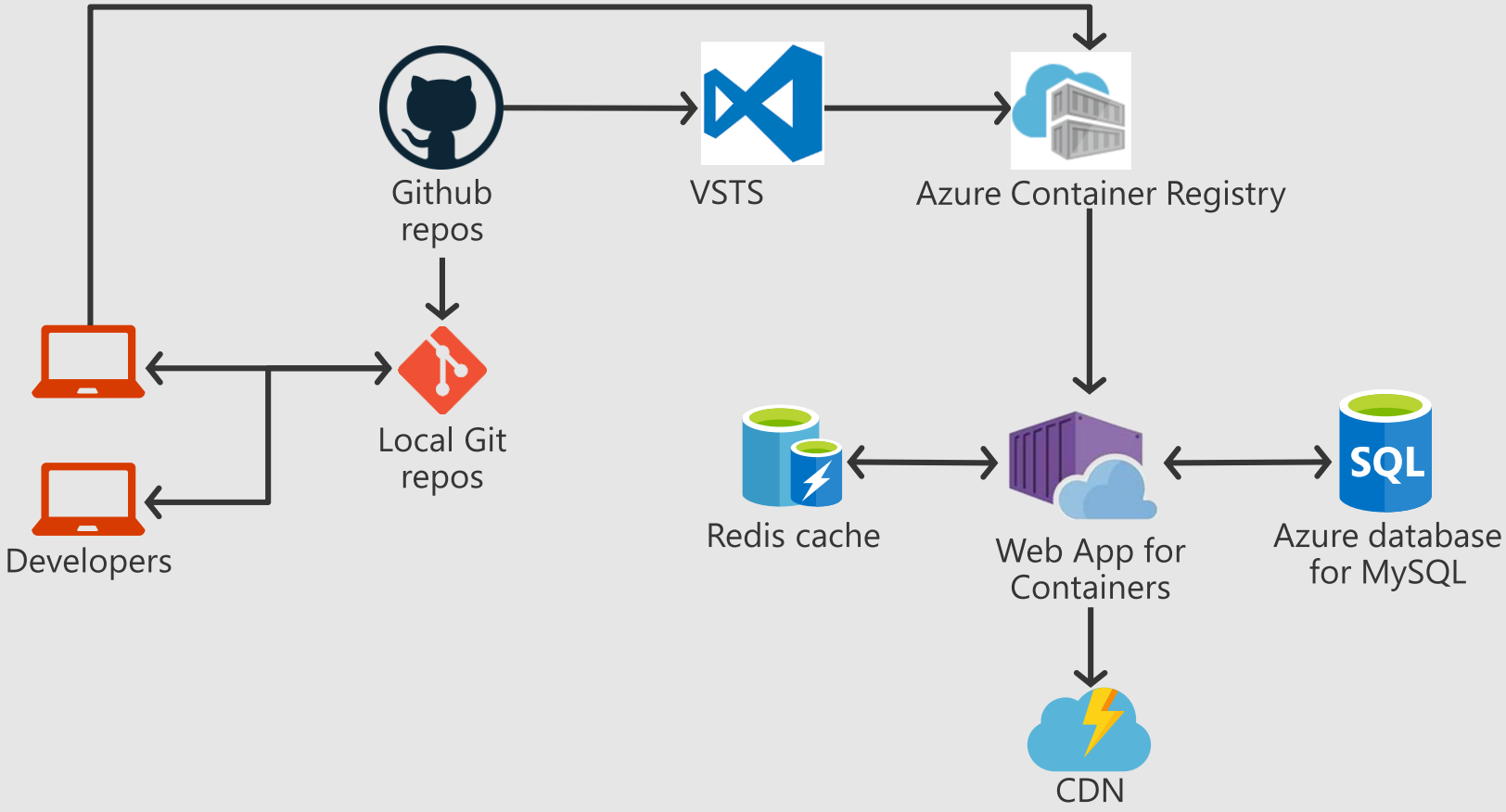
## Basic

- FTP

## Source Control / Continuous Deployment

- Github
- Azure Container Registry
- Docker Hub
- Private registry
- Continuous Delivery ( Preview) – VSTS

# 開發與佈署流程


Github
repos
VSTS
Azure Container Registry
Local Git
repos
Developers
Redis cache
Web App for
Containers
SQL
Azure database
for MySQL
CDN

坦白從寬 牢底坐穿 抗拒從嚴 回家過年

# Docker 新手

# 哪些地方會出錯 – Platform Issues

- Azure App Service depends on other services
  - SQL Azure
  - Storage
  - Network
  - Cloud Services (management)
- Azure App Service deployment gone bad
- Random bugs
- ASP.NET Core 2.1

# 如何進行疑難排解

- SSH
- Enable Diagnostics
  - Docker Logs
  - Server logs
- Best practices for logging to custom docker images

# VSTS

- Triggers
- Build
  - Use Default Context
    - .
  - Image Name
  - Include Latest Tag
- Release
  - Image Name
  - Include Latest Tag

# VSTS

- Agent pool
  - Hosted Linux Preview & Hosted VS2017
- 差在哪?

Queued 2 hours ago

Ran for 02:51

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Ran for 08:57

From KK Bruce