



# Deploying Windows Apps Using Draft, Helm, and Kubernetes



DAN GARFIELD  
CHIEF TECHNOLOGY EVANGELIST  
@TODAYWASAWESOME



JESSICA DEEN  
AZURE CLOUD EVANGELIST  
@JLDEEN

# Dan Garfield

*Chief Technology Evangelist*

 **codefresh**



# Jessica Deen

*Cloud Developer Advocate*



# Windows Containers



**Working with Windows containers is special, but still has significant advantages over VMs.**

# Working with Windows Containers

— Containers require matching kernel versions

Kernel needs to be the same across build/deploy

The rest of your pipeline can be Linux

Nothing special about your Docker Registry

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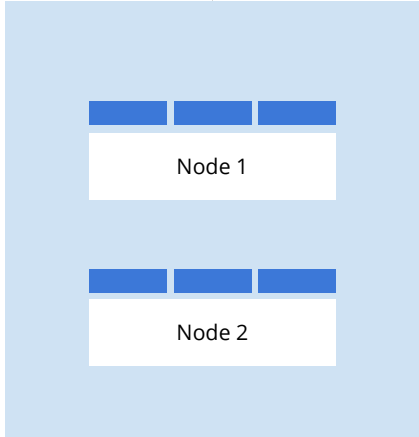
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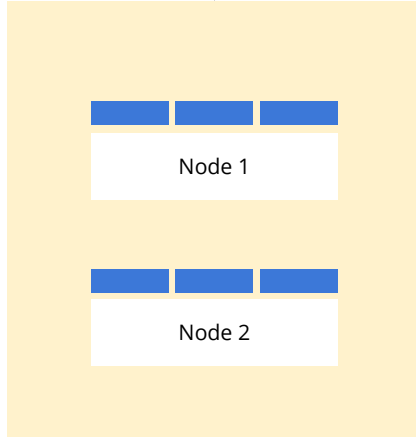
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Kubernetes Master



Linux Agent Pool



Windows Agent Pool

# Kubernetes Hybrid Clusters

# HELM

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## Helm

### Package Manager for Kubernetes

Helm helps you manage Kubernetes applications — Helm Charts help you define, install, and upgrade even the most complex Kubernetes application.

Charts are easy to create, version, share, and publish — so start using Helm and stop the copy-and-paste.

<https://helm.sh/>

# Draft

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## Draft

Works with Helm, but made to simplify the process for developers

With just 2 commands, a developer can get started with Cloud Native Applications

```
`draft create`
```

```
`draft up`
```

<https://github.com/Azure/draft>

# Pre-Reqs

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## ASP .NET

- Windows 10 version 1803, Windows Server version 1803 or later
- Visual Studio 2017 (any edition)
- .Net Framework 4.7.2 SDK, ASP.Net Targeting Pack for Visual Studio
- Docker

<https://github.com/PatrickLang/fabrikamfiber/tree/helm-2019-mssql-linux>

# Pre-Reqs

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## .Net Core

- [.Net Core 2.2 SDK](#)
- Kubernetes cluster with Windows nodes
- A working container registry
  - If you're using Azure
    - [Set up ACR](#)
    - [Authenticate it to ACR](#)
    - [Log in to ACR](#) on your Windows machine
  - Otherwise, use docker login on your Windows machine, and be sure to set up a Kubernetes [image pull secret](#)
- [Windows Draft Pack](#)

<https://github.com/PatrickLang/KubernetesForWindowsTutorial/tree/master/DraftWalkthrough>

**Demo time!**



# Questions?



**DAN GARFIELD**  
CHIEF TECHNOLOGY EVANGELIST  
@TODAYWASAWESOME



**JESSICA DEEN**  
AZURE CLOUD EVANGELIST  
@JLDEEN



# Thank you



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