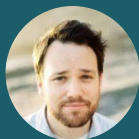




# Deploying Windows Apps Using Draft, Helm, and Kubernetes



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# Dan Garfield

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# 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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# Working with Windows Containers

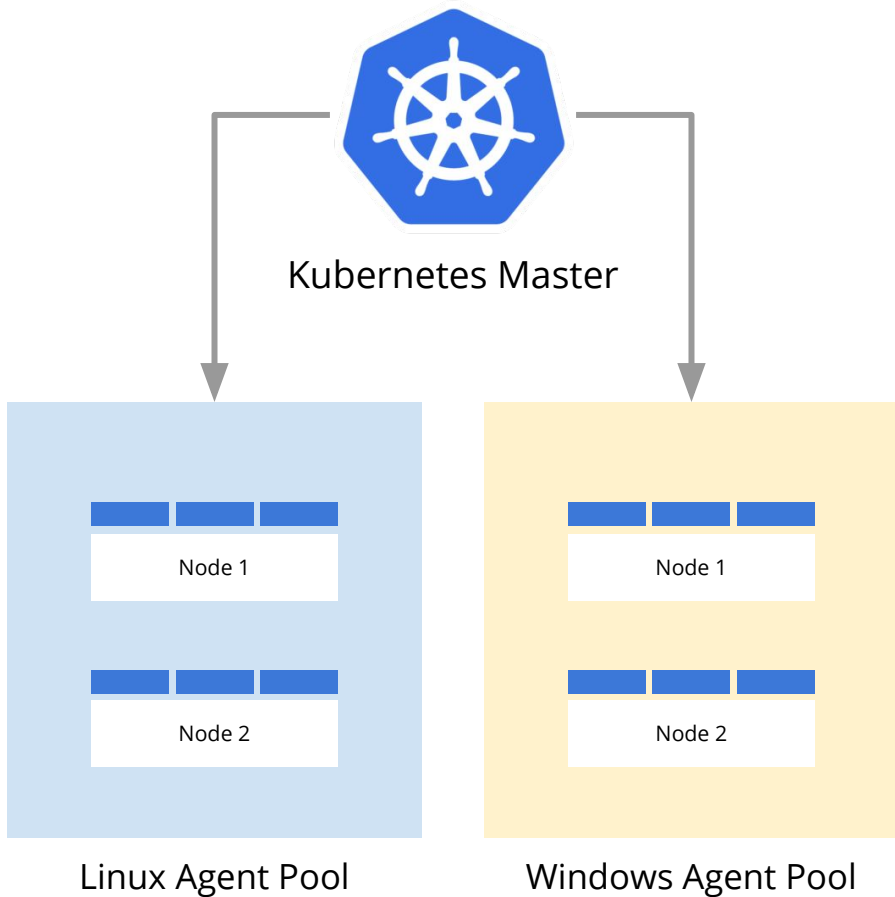
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---

**Nothing special about  
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# 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

---

## 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

---

## 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

---

## .Net Core

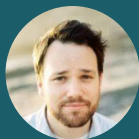
- [.Net Core 2.2 SDK](#)
- Kubernetes cluster with Windows nodes
- A working container registry
  - If you're using Azure
    - [Set up ACR](#)
    - [Authenticate it to ACR](#)
    - [Log in to ACR](#) on your Windows machine
  - Otherwise, use docker login on your Windows machine, and be sure to set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

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

**Demo time!**



# Questions?



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# Thank you



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