# Kubernetes Package Administration with Helm

#### INSTALLING AND CONFIGURING HELM



#### **Andrew Pruski**

SQL SERVER DBA, MICROSOFT DATA PLATFORM MVP, AND CERTIFIED KUBERNETES ADMINISTRATOR

@dbafromthecold www.dbafromthecold.com



## Overview



Helm Overview
Installing Helm
Configuring Helm



## Helm Overview



### What Is Helm?



A package manager for Kubernetes

Charts help define Kubernetes applications

With Helm you can: -

- Mange complexity
- Easily update and rollback
- Share charts



## History of Helm

Helm was created in 2015 at Deis

Helm Classic was introduced at KubeCon in November 2015

Helm Classic was merged with Google's Deployment Manager in January 2016

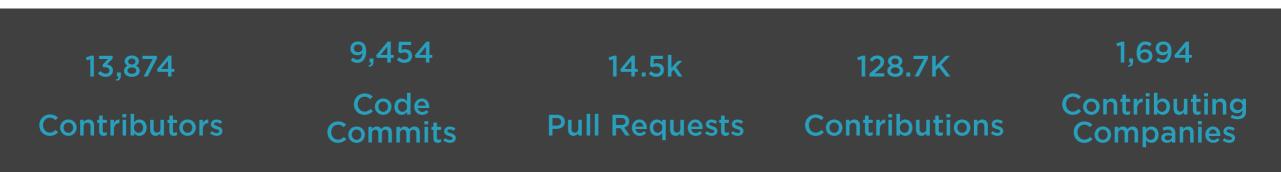
Open source at github at https://github.com/helm/helm

More than 2 million downloads a month

Graduated status within the CNCF in April 2020



#### Helm Statistics



Source - <a href="https://www.cncf.io/cncf-helm-project-journey/">https://www.cncf.io/cncf-helm-project-journey/</a> Statistics as of June 2020



## Helm V3

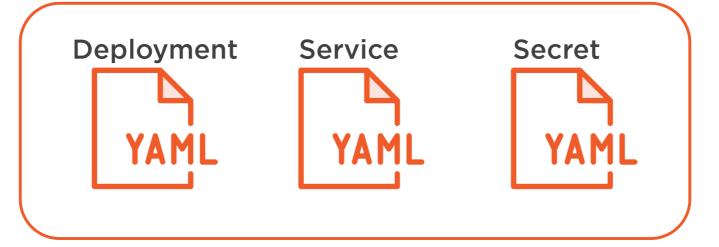
Tiller Search Commands Dependencies Other



# This Course Focuses on Helm V3



#### What Are Charts?



Kubectl apply -f Deployment.yaml Hekumbentlaapplyame Sochace.yamychart Kubectl apply -f Secret.yaml



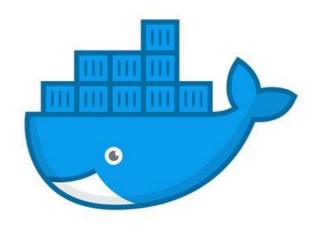
## Setting up Your Environment



## Tools



**Visual Studio Code** 



Docker



**Kubernetes** 



## Installing Helm



## Installing Helm



From the binary releases

From script

Via snap

Through a package manager

- Chocolately



## Demo



Configuring our environment Installing Helm



## Configuring Helm



### Helm Commands

Helm Version
Helm Search Repo
Helm List
Helm Rollback
Helm Create

Helm Repo Add
Helm Install
Helm Upgrade
Helm History
Helm Package

## Adding the Stable Repository

Helm repo add stable https://kubernetes-charts.storage.googleapis.com/

Helm Hub

Charts • About

Discover & launch great Kubernetes-ready apps

Search charts...

1327 charts ready to deploy



## Demo



**Exploring the stable repository** 

