

# Getting Started with Kubernetes

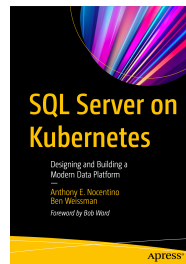
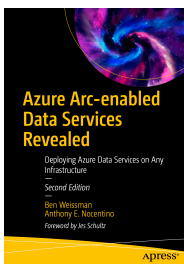
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**Download Decks and Code: <https://github.com/nocentino/PSHSummit2023>**



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# Course Overview

- **Module 0** - Introduction
- **Module 1** - Container Fundamentals and Introducing Kubernetes
- **Module 2** - Kubernetes Architecture and API Objects
- **Module 3** - Interacting With Your Cluster
- **Lunch @ 12:00-12:45**
- **Module 4** - Deploying Applications in Kubernetes
- **Module 5** - Building and Deploying Container-based Applications in Kubernetes

# Module 1

- **Container Fundamentals**
  - Container Fundamentals
  - Container Based Application Deployment
  - The Need for Container Orchestrators

# Module 2

- **What is Kubernetes**
- **Kubernetes Architecture and API Objects**
  - Exploring Kubernetes Architecture
  - Core API Primitives
  - Getting Kubernetes

# Module 3

- **Interacting With Your Cluster**
  - Using **kubect1** to Interact with Your Cluster
  - Application Deployment Basics in Kubernetes

# Module 4

- **Deploying Applications in Kubernetes**
  - Namespaces
  - Labels
  - Services
  - Deployments

# Module 5

- **Building Containers and Deploying Applications in Kubernetes**
  - Building a local web application
  - Building a container image
  - Container Registries
  - Deploying in Kubernetes



# Workshop Goals

- **Give you the building blocks you need to start your Kubernetes journey**
- **Start to think about how you can use Kubernetes to build your next generation data or application platform**
- **Decks and demos are available for download**
- **Me talking less with you hands on more!**

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# Logistics

- **Questions throughout**
- **The tech bar is high in this talk...**
  - **If there's a topic that you're not familiar with ask!**

# Introductions

- **Name?**
- **Where you are from?**
- **Company name?**
- **Your role?**
- **What are topic are you most interested in today's session?**
- **Why Kubernetes?**

# Let's Go!

- **Time to get started on Module 1**
  - **Container Fundamentals**

