

# Getting Started with Kubernetes

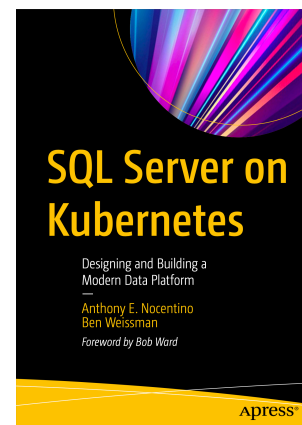
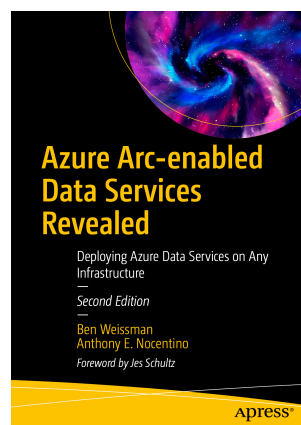
**Anthony E. Nocentino**  
[aen@centinosystems.com](mailto:aen@centinosystems.com)

**Download Decks and Code: <https://bit.ly/3O7GiQn>**



# Anthony E. Nocentino

- **Principal Field Solution Architect @ Pure Storage**
  - Specialize in system architecture and performance
  - Masters Computer Science
- **email:** [anocentino@purestorage.com](mailto:anocentino@purestorage.com)
- **Twitter:** @nocentino
- **Blog:** [www.nocentino.com](http://www.nocentino.com)
- **GitHub:** <https://github.com/nocentino/>
- **Pluralsight Author:** [www.pluralsight.com](http://www.pluralsight.com)
- **Founding Organizer of EightKB** - [www.eightkb.online](http://www.eightkb.online)



# Course Overview

- **Module 0** - Introduction
- **Module 1** - Container Fundamentals and Introducing Kubernetes
- **Module 2** - Kubernetes Architecture and API Objects
- **Lunch @ 12:00-12:45**
- **Module 3** - Interacting With Your Cluster
- **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
- **Introducing Kubernetes**
  - What is Kubernetes

# Module 2

- **Kubernetes Architecture and API Objects**
  - Exploring Kubernetes Architecture
  - Core API Primitives
    - Pods
    - Controllers
    - Services
    - Storage
  - 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!**

# 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 and Introducing Kubernetes**