

MICROSERVICES MARCH 2022

Kubernetes Networking

Program Overview







What will I learn?

Microservices March 2022 is a month-long, free educational program on Kubernetes networking. The total time commitment is about 16 hours, spread across four weeks. Choose to complete the entire program or just the bits and pieces you need to fill in your knowledge gaps.

- Unit 1: (March 7–11)
Architecting Kubernetes Clusters for High-Traffic Websites
- Unit 2: (March 14–18)
Exposing APIs in Kubernetes
- Unit 3: (March 21–25)
Microservices Security Pattern
- Unit 4: (March 28–31)
Advanced Kubernetes Deployment Strategies

What will I do?

Each unit includes:

-  A livestream with experts from F5 NGINX and learnk8s
-  A collection of blogs, videos, and ebooks to deepen your knowledge
-  A self-paced lab for experimenting with Kubernetes technologies
-  Access to the NGINX experts via our Slack community

Who is this for?

While anyone interested in Kubernetes will learn a lot, we'd especially like to invite current and aspiring "Kubernetes operators" – regardless of Kubernetes skill level – to participate because the curriculum caters to your professional development!

What's a Kubernetes operator?

An operator or "cluster operator" (not to be confused with the programmatic construct of an operator) is analogous to what we would have called a system administrator in the pre-cloud era.

Job titles: We haven't met anyone with the job title "Kubernetes Operator"... yet. Most often, people in this role have the title of Cloud Architect or Site Reliability Engineer. They're usually part of a larger operations team, such as a Platform Ops team.

Job description: Kubernetes operators are responsible for Kubernetes as a piece of infrastructure and are commonly responsible for helping other teams run their services on Kubernetes. Their jobs can include planning and monitoring capacity, scaling the clusters, and handling larger management tasks that help provide Kubernetes as a platform for network and app teams.

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Suggested Schedule

Microservices March is flexible. As each unit is released, you can complete the segments in any order – and even skip the ones you don't think are relevant. If you're looking to complete the entire program, then this suggested schedule will help you plan your weeks.

Key



High-Level Overview

1 hour



Dive Deeper

2 hours



Put into Practice

1 hour

March 7-11 | Unit 1 Architecting Kubernetes Clusters for High-Traffic Websites



March 7
Livestream
Watch live at 8am PT
or on demand



March 8-9
**Technical Reading
& Videos**
Self-paced



March 10
Hands-on Lab
Self-paced

March 14-18 | Unit 2 Exposing APIs in Kubernetes



March 14
Livestream
Watch live at 8am PT
or on demand



March 15-16
**Technical Reading
& Videos**
Self-paced



March 17
Hands-on Lab
Self-paced

March 21-25 | Unit 3 Microservices Security Pattern



March 21
Livestream
Watch live at 8am PT
or on demand



March 22-23
**Technical Reading
& Videos**
Self-paced



March 24
Hands-on Lab
Self-paced

March 28-31 | Unit 4 Advanced Kubernetes Deployment Strategies



March 28
Livestream
Watch live at 8am PT
or on demand



March 29-30
**Technical Reading
& Videos**
Self-paced



March 31
Hands-on Lab
Self-paced

Want to know exactly what you'll learn in each unit? [View Full Agenda](#) →

Tip: Hold yourself accountable by adding time blocks to your calendar!