

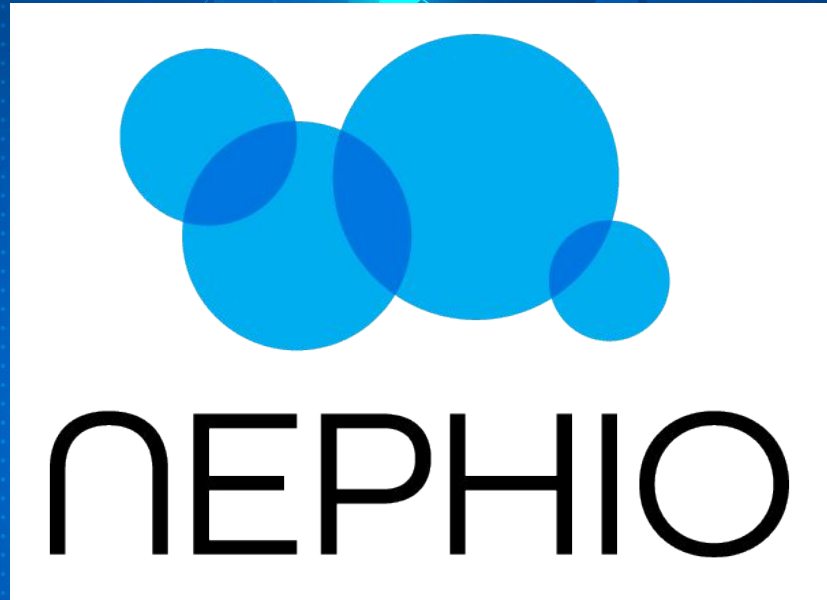
Series Introduction

Nephio R1 Concepts and Tutorials
Episode 1
July 2023

Prerequisites:

- None

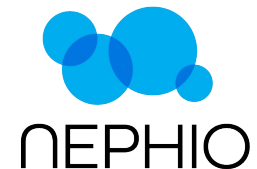
<https://nephio.org/learn>



*John Belamaric, Sr Staff Software Engineer, Google
Nephio SIG Automation Chair
Kubernetes SIG Architecture Co-chair*

Nephio's Mission

Nephio's goal is to deliver carrier-grade, simple, open, Kubernetes-based cloud native intent automation and common automation templates that materially simplify the deployment and management of multi-vendor cloud infrastructure and network functions across large scale edge deployments. Nephio enables faster onboarding of network functions to production including provisioning of underlying cloud infrastructure with a true cloud native approach, and reduces costs of adoption of cloud and network infrastructure.



What

- Automate deployment of network functions and their infrastructure
- Automate management of network functions and their infrastructure
- Work across large scale, geographically distributed edge deployments
- Multi-vendor cloud and network function support

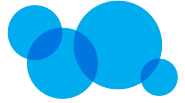
How

- Intent-driven and declarative
- Kubernetes as the underlying platform

Why

- Get network functions to production faster
- Reduce costs of adoption of cloud

About this Series



NEPHIO

“Episodes” covering Nephio Release 1 and the underlying concepts

All episodes available at <https://nephio.org/learn>

- Check back for new episodes

Each episode in the series includes:

- Prerequisite episodes to understand the content
- A short presentation
- A short video
- A wiki page for Q & A
- Pointers to additional resources

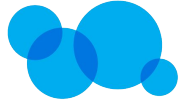
Most episodes also include exercises to try out the ideas

[Suggestions and contributions](#) are welcome!

About the Nephio Community



Open source project in the Linux Foundation



NEPHIO

Project Resources

- Learning page - <https://nephio.org/learn>
- Site - <https://nephio.org/>, <https://nephio.org/about/>
- Wiki - <https://wiki.nephio.org/>
- Docs - <https://github.com/nephio-project/docs>
- Blog Postings - <https://nephio.org/blog/>
- Slack - <https://nephio.slack.com/> (join via this [invitation](#))
- Project Github - <https://github.com/nephio-project>
- Project email distro - <https://lists.nephio.org>
 - [nephio-tsc](#) (for TSC members and interested parties)
 - [nephio-dev](#) (for all)
- SIG lists: [sig-netarch](#), [sig-automation](#), [sig-release](#)

Next Steps

- Episode 2 - Why Nephio?
 - What problems is it solving?
 - How is it different?
- Episode 3 - The Nephio Approach
 - Core Nephio Principles
 - Declarative versus Imperative Management
 - Kubernetes and KRM
 - Configuration-as-Data
- Episode 4 - Setting Up a Demo Environment

