Series Introduction
Nephio R1 Concepts and Tutorials
Episode 1
July 2023

Prerequisites:
- None

https://nephio.org/learn

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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

“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

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