Nephio TSC Meeting

April 11, 2024
Antitrust Policy Notice

- Linux Foundation meetings involve participation by industry competitors, and it is the intention of the Linux Foundation to conduct all of its activities in accordance with applicable antitrust and competition laws. It is therefore extremely important that attendees adhere to meeting agendas, and be aware of, and not participate in, any activities that are prohibited under applicable US state, federal or foreign antitrust and competition laws.

- Examples of types of actions that are prohibited at Linux Foundation meetings and in connection with Linux Foundation activities are described in the Linux Foundation Antitrust Policy available at http://www.linuxfoundation.org/antitrustpolicy. If you have questions about these matters, please contact your company counsel, or if you are a member of the Linux Foundation, feel free to contact Andrew Updegrove of the firm of Gesmer Updegrove LLP, which provides legal counsel to the Linux Foundation.
Meeting Information

› Zoom Meeting Information

› https://zoom-lfx.platform.linuxfoundation.org/meeting/91267803435

› Note: Anyone that accesses the link will be prompted to register for the meeting at which point they also add themselves to the invite list.
Etherpad - Meeting Minutes

› https://etherpad.lfnetworking.org/p/Nephio-TSC-2023-04-11

› Join the etherpad and set up your name and text color

› Meeting attendance - no longer needed unless quorum is being tracked for a vote during the meeting. LFX tools zoom log will be uploaded post meeting to capture all attendees.

› Please help: The more that participate, the better the minutes
Using the Mail Lists

- All groups.io email lists are <list name>+subscribe to subscribe, just email it (content does not matter)

- **TSC**
  - Post: nephio-tsc@lists.nephio.org
  - Subscribe: nephio-tsc+subscribe@lists.nephio.org

- **Development**
  - Post: nephio-dev@lists.nephio.org
  - Subscribe: nephio-dev+subscribe@lists.nephio.org

- **SIG Automation**
  - Post: sig-automation@lists.nephio.org
  - Subscribe: sig-automation+subscribe@lists.nephio.org

- **SIG NetArch**
  - Post: sig-netarch@lists.nephio.org
  - Subscribe: sig-netarch+subscribe@lists.nephio.org

- **SIG Release**
  - Post: sig-release@lists.nephio.org
  - Subscribe: sig-release+subscribe@lists.nephio.org

- **SIG Security**
  - Post: sig-security@lists.nephio.org
  - Subscribe: sig-security+subscribe@lists.nephio.org

- Once you have subscribed, login to lists.nephio.org (ask for a link to be sent), then edit account details
## TSC Members

<table>
<thead>
<tr>
<th>Name / Alternate</th>
<th>Organization</th>
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</thead>
<tbody>
<tr>
<td>Alessandro D'Alessandro / Fabrizio Moggio</td>
<td>TIM</td>
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<tr>
<td>Bala Varadaraju</td>
<td>RedHat</td>
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<td>Bernard Tsai</td>
<td>Deutsche Telekom</td>
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<td>Ciaran Johnston</td>
<td>Ericsson</td>
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<td>Eric Debeau</td>
<td>Orange</td>
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<td>Hunor Demeter / Padma Sudarsan</td>
<td>VMware/Broadcom</td>
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<tr>
<td>Iain Wilkinson / Riccardo Gasparetto Stori</td>
<td>Vodafone</td>
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<tr>
<td>Kandan Kathirvel (Chair)</td>
<td>Google</td>
</tr>
<tr>
<td>Raj Panchapakesan / Rahul Jadhav</td>
<td>AccuKnox</td>
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<tr>
<td>Ravi Ravindran</td>
<td>F5</td>
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<tr>
<td>Sagar Arora</td>
<td>OpenAirInterface</td>
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<tr>
<td>Sana Tariq (Vice-Chair)</td>
<td>TELUS</td>
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<td>Sandeep Sharma</td>
<td>Aarna Networks</td>
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<td>Sebastian Scheele</td>
<td>Kubermatic</td>
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<td>Seshu Kumar Mudiganti</td>
<td>Wind River</td>
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<td>Sundar Nadathur</td>
<td>Intel</td>
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<tr>
<td>Timo Perala</td>
<td>Nokia</td>
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<td>Victor Morales</td>
<td>Samsung</td>
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Agenda

› Antitrust Policy, Minutes, and Action Items

› SIG Status
  › SIG1- NetArch [Sana & Alexis]
  › SIG2- Automation [Tal & Wim]
  › SIG3- Release [Balaji & Radoslaw]
  › SIG4- Security [Rahul & Tom]

› Events
  › Nephio demo kiosk at ONE Summit  [Jill]
  › ONE Summit + D&TF Registration Reminder  [Jenn]
  › Draft Agenda for Nephio Developer Event @ ONE Summit D&TF  [Kandan]

› Other Topics
  › Bug Report

› Q&A
SIG1 NetArch  [Sana & Alexis]

› In progress
  › **Architecture**
    › Draft component diagram
  › **Scope process**
    › User Story process, from idea to release
  › **R3 priorities**
    › Initial draft for R3 priorities

› Scope
  › 6 user stories approved for Rx
  › O-RAN use case

› Brainstorming for R3 and Beyond
  › Lifecycle Management: CaaS, NF
  › GenAI
SIG2 Automation [Tal & Wim]

- [Link](https://github.com/orgs/nephio-project/projects/15/views/6)
SIG3 Release [Balaji & Radoslaw]

>
SIG4 Security [Rahul & Tom]

- Security Best Practices
  - OSSF Score improved to 7.4
  - OSSF Best practices = 73%
- Identity & Access Management
  - User Identity
  - Workload Identity
- Rx Scope
  - Presented to Rx scope
  - Next Steps:
    - Present challenges with improving the OSSF score further.
    - Next steps with workload identity.

Nephio

The Nephio project is building a Kubernetes-based automation platform for deploying and managing highly distributed, interconnected workloads such as 5G Network Functions, and the underlying infrastructure on which those workloads depend.

openssf scorecard 7.4 openssf best practices in progress 73%
Events
ONE Summit updates

› Tracks:
  › Future of Innovation
  › AI Implementation Across Telecom, Cloud, Enterprise & Edge
  › Securing and Automating the Open End-to-End Network
  › Deployment Use Stories: Where Slides Meet the Real World
› Mini summits / co-located events confirmed:
  › LF Networking Developer & Testing Forum
  › SONiC mini summit
  › ORAN-SC Workshop
  › OpenGovCon: 6G Innovation Day

** We are offering event registration discount for organizations contributing to Nephio. Please reach out to Sunny <scai@linuxfoundation.org> for details
ONE Summit - Nephio Session Highlights

Tuesday, April 30

› Lessons Learned from Using Nephio to Manage a Real-World 5G Core
  › István Kispál, Nokia

› Nephio & Gen AI: Empowering Efficiency in 5G/O-RAN and Beyond
  › Sana Tariq, Telus Canada & Alexis de Talhouët, Red Hat

› Intent Driven Orchestration for Autonomous Networks Leveraging GenAI, Nephio & ONAP
  › Keguang He, China Mobile & Ganesh Narayan, Infosys

› Running Complex Network Function Workloads with Nephio
  › Ciaran Johnston, Ericsson & Stephen Wong, Google

› Code Vs. Data: Optimizing NFV Orchestration with Nephio
  › Tal Liron, Google

Wednesday, May 1

› Nimbus: Intent Driven Security Automation for Telco/5G Security
  › Rahul Jadhav, Accuknox

› Automating Private 5G Network Functions and Infra with Nephio
  › Sriram Rupanagunta, Aarna Networks

› Lifecycle Management of OAI O-RAN Network Functions via Nephio
  › Sagar Arora, OpenAirInterface Software Alliance; Alexis de Talhouët, Red Hat; Sana Tariq, Telus Canada

View the full event schedule here!
ONE Summit - Nephio Kiosk

LFN booth to feature 3 main Kiosks:

1. Nephio
2. AI
3. Cloud Native Telco Initiative

ASK: Volunteers to host R2 (or other appropriate) demo
ONE Summit - Register!

› Register
  › ONE Summit + D&TF

› Schedule:
  › https://events.linuxfoundation.org/one-summit-north-america/program/schedule/
  › Mini summits / co-located events confirmed:
    › LF Networking Developer & Testing Forum
    › SONiC mini summit
    › OpenGovCon: 6G Innovation Day
  › Get in front of the audience and sponsor ONE Summit!

** We are offering event registration discount for organizations contributing to Nephio. Please reach out to Sunny <scai@linuxfoundation.org> for details
Nephio Developer Event @ ONE Summit D&TF

› Nephio R3 Developer Event @ ONE Summit wiki page
Other Topics
Bug Report

Vulnerability Name: DMARC RECORD MISSING

Target URL: https://nephio.org/

HOW TO REPRODUCE(POC-ATTACHED):

1. GO TO- https://mxtoolbox.com/
2. ENTER THE WEBSITE(nephio.org) click on MX lookup
3. YOU WILL SEE THE FAULT(No DMARC Record found).
4. In the new page that loads, change MXLookup to DMARCLookup.

Extra info

Impact:
Spammers can forge the "From" address on email messages to make messages appear to come from someone in your domain. If spammers use your domain to send spam or junk email, your domain quality is negatively affected. People who get forged emails can mark them as spam or junk, which can impact authentic messages sent from your domain.
### Bug Report

#### mx:nephio.org

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#### Test Results

- **DMARC Record Published**: No DMARC Record found
- **DMARC Policy Not Enabled**: DMARC Quarantine/Reject policy not enabled
- **DNS Record Published**: DNS Record found
Actions

› Community Awards
› **FAQ Update** [Kandan]
› LF PMO to share details about LFN programs (mentorship, badging) during upcoming Nephio TSC (May, 2024) [Casey Cain]
› Document DST policy [Jenn Bonner]
2024-05 LFN Developer & Testing Forum (Co-located with ONE Summit)

By the Technical Community, For the Technical Community.

Accelerate project collaboration, influence technical decisions, build cross-project competence

- Welcome
- General Information For Developers
- Details for Presenters
- LFN Staff Support
- Additional Information

Registration

- Event Schedule (TBA)
- Submit Sessions

Welcome

We are thrilled to host you in this vibrant gathering of minds, innovators, and leaders in the field of networking to our Developer & Testing Forum taking place following the ONE Summit from 🗓️ 02 May 2024 and 🗓️ 03 May 2024.

This forum represents a unique opportunity to engage with the latest advancements in open networking and to collaborate on shaping the future of this dynamic industry. As we gather here, our shared goal is to drive innovation, forge new connections, and work collectively towards

Submit Sessions

Community Program Committee Leads:

- Anuket: @Beth Cohen
- @Gergely Csatari
- L3AF:
- ONAP:
- OpenDaylight:
  @MichaelConrad
2024-05 LFN Developer Event Sessions

Created by Casey Cain, last modified on Jan 19, 2024

Tips for Advertising, Planning, and Managing your Sessions

SESSION SUBMISSION DEADLINE - TBA

All sessions must be delivered locally on site.

Session Information

- Submit a Session
- Plenary Sessions
- AI Sessions
- OpenDaylight Sessions
- ONAP Sessions
- Anuket Sessions
- XGVela Sessions
- ODIM Sessions
- L3AF Sessions
- 5G Super Blueprint Sessions
- TDio Sessions
- Nephio Sessions
- Adjacent Networking Sessions

Registration

- Event Schedule (TBA)
- Submit Sessions
  - Convince Your Boss to attend! << LOOK!
  - D&TF Slack Instance #hallway
  - Event Survey
  - Feedback events@lfnetworking.org

Scroll Down to Submit
Submit a Session

Add your session proposal by clicking the appropriate button below.

- Plenary
- AI
- XGVela
- FD.io
- ONAP
- Nephio
- Adjacent Networking Project
- ODL
- Anuket
- ODIM
- L3AF
- 5G-SBP
- Nephio

Click “Nephio”
2024-05 - Nephio: Session Name

Short Description

On this line set the length of the session and tag the name(s) of the topic leader(s) using the @macro. Example: 60m, @hostymchostface

On this line, please enter a brief session description here. Please do not add full topic descriptions, multiple paragraphs, or meeting notes in this field.

Topic Overview

Please provide your detailed topic abstract here. Multiple paragraphs OK

Session Type

*** Please place an X next to your session type

- Interactive technical presentation and/or capability demo
- Pre-Recorded technical presentation and/or capability demo

Form auto-fills with prompts