



Nephio TSC Meeting

April 11, 2024

 OLF NETWORKING

 THE **LINUX** FOUNDATION

Antitrust Policy Notice

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- › 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 Updegrave of the firm of Gesmer Updegrave 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

Name / Alternate	Organization
Alessandro D'Alessandro / Fabrizio Moggio	TIM
Bala Varadaraju	RedHat
Bernard Tsai	Deutsche Telekom
Ciaran Johnston	Ericsson
Eric Debeau	Orange
Hunor Demeter / Padma Sudarsan	VMware/Broadcom
Iain Wilkinson / Riccardo Gasparetto Stori	Vodafone
Kandan Kathirvel (Chair)	Google
Raj Panchapakesan / Rahul Jadhav	AccuKnox

Name / Alternate	Organization
Ravi Ravindran	F5
Sagar Arora	OpenAirInterface
Sana Tariq (Vice-Chair)	TELUS
Sandeep Sharma	Aarna Networks
Sebastian Scheele	Kubernatic
Seshu Kumar Mudiganti	Wind River
Sundar Nadathur	Intel
Timo Perala	Nokia
Victor Morales	Samsung

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



SIG Updates

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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]

- › <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%

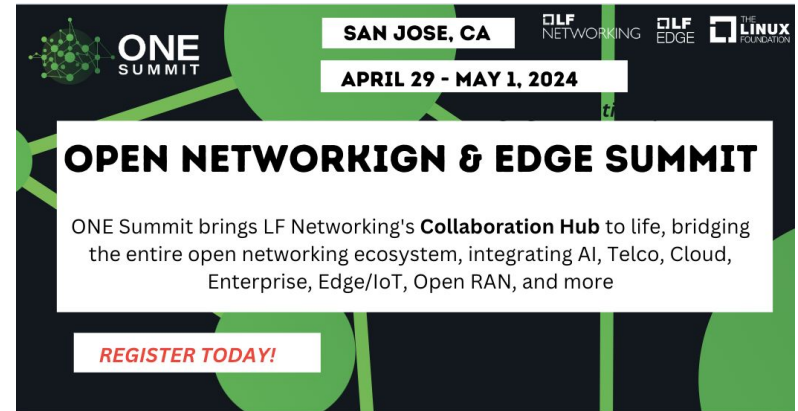
Events

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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

SAN JOSE, CA

APRIL 29 - MAY 1, 2024

OPEN NETWORKING & EDGE SUMMIT

ONE Summit brings LF Networking's **Collaboration Hub** to life, bridging the entire open networking ecosystem, integrating AI, Telco, Cloud, Enterprise, Edge/IoT, Open RAN, and more

REGISTER TODAY!

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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!](#)



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Nephio Developer Event @ ONE Summit D&TF

- › [Nephio R3 Developer Event @ ONE Summit wiki page](#)

Other Topics

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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

The screenshot shows the mxtoolbox.com SuperTool interface for the domain mx.nephio.org. It displays a table of DNS records and a table of DMARC test results. On the right side, there is a sidebar with several service cards, each with a green 'Upgrade' button.

mx.nephio.org Find Problems Solve Email Delivery Problems

Pref	Hostname	IP Address	TTL		
1	ASPMX.L.GOOGLE.COM	172.253.122.26 Unknown (AS15169)	60 sec	Blacklist Check	SMTP Test
1	ASPMX.L.GOOGLE.COM	2607:f8b0:4004:c17::1b	60 sec	Blacklist Check	
5	ALT1.ASPMX.L.GOOGLE.COM	209.85.202.27 Unknown (AS15169)	60 sec	Blacklist Check	SMTP Test
5	ALT1.ASPMX.L.GOOGLE.COM	2a00:1450:400b:c00::1a	60 sec	Blacklist Check	
5	ALT2.ASPMX.L.GOOGLE.COM	64.233.184.27 Unknown (AS15169)	60 sec	Blacklist Check	SMTP Test
5	ALT2.ASPMX.L.GOOGLE.COM	2a00:1450:400c:c0b::1b	60 sec	Blacklist Check	
10	ALT3.ASPMX.L.GOOGLE.COM	142.250.27.27 Unknown (AS15169)	60 sec	Blacklist Check	SMTP Test
10	ALT3.ASPMX.L.GOOGLE.COM	2a00:1450:4025:401::1b	60 sec	Blacklist Check	
10	ALT4.ASPMX.L.GOOGLE.COM	142.250.153.27 Unknown (AS15169)	60 sec	Blacklist Check	SMTP Test
10	ALT4.ASPMX.L.GOOGLE.COM	2a00:1450:4013:c16::1a	60 sec	Blacklist Check	

Test	Result	
DMARC Record Published	No DMARC Record found	More Info
DMARC Policy Not Enabled	DMARC Quarantine/Reject policy not enabled	More Info
DNS Record Published	DNS Record found	

Delivery Center Real-time insight into the Email Deliverability

Inbox Placement Know if your campaigns will make the inbox

Recipient Complaints Get feedback on how recipients perceive your email: complaints, unsubscribes, failures, and more...

Adaptive Blacklist Monitoring Real-time monitoring of all your domain's sending IPs

Mailflow Monitoring Round-trip monitoring of your email latency

SPF Flattening Prevent soft delivery failures and easily manage complex SPF configurations.

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]

Backups

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2024-05 LFN Developer & Testing Forum (Co-located with ONE Summit)

Created by Casey Cain, last modified on Mar 12, 2024

By the Technical Community, For the Technical Community.

 02 May 2024 -  03 May 2024

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

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

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

Registration

- **Event Schedule (TBA)**

- **Submit Sessions**

• **Submit your session to**

attend! << **LOOK!**

- D&TF Slack Instance #hallway
- Event Survey
- Feedback events@lfnetworking.org

Community Program

Committee Leads:

- Anuket: [@BethCohen](#) , [@GergelyCsatari](#)
- L3AF:
- ONAP:
- OpenDaylight: [@Venkatesan](#)

Submit Sessions

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
- ED.io Sessions
- **Nephio Sessions**
- Adjacent Networking Sessions



Registration

- **Event Schedule (TBA)**
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- Convince Your Boss to attend! << **LOOK!**
- D&TF Slack Instance #hallway
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Scroll Down to Submit

- AI Sessions
- OpenDaylight Sessions
- ONAP Sessions
- Anuket Sessions
- XGVela Sessions
- ODIM Sessions
- L3AF Sessions
- 5G Super Blueprint Sessions
- FD.io Sessions
- Nephio Sessions
- Adjacent Networking Sessions

• Event Schedule (TBA)

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- Convince Your Boss to attend! << LOOK!
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Submit a Session

Add your session proposal by clicking the appropriate button below.

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


Plenary Sessions

Content by label

Click “Nephio”

2024-05 - Nephio: Session Name

Short Description

 Excerpt

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*

<input type="checkbox"/>	Interactive technical presentation and/or capability demo
<input type="checkbox"/>	Pre-Recorded technical presentation and/or capability demo
<input type="checkbox"/>	

Form auto-fills with prompts