

# DC Fabric Partners Hackathon



2<sup>nd</sup> Edition "24-25<sup>th</sup> September"

# Agenda & Logistics

DC Fabric / SR Linux Hackathon 2024

The Nokia logo is positioned on the right side of the slide, centered vertically. It is a white, sans-serif font. The background of the slide is a gradient of red and orange, with a large white chevron shape pointing left, framing the logo.

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# Agenda and Nokia Speakers

## First Day

### Tuesday (Sep 24<sup>th</sup>)

08:30 – 09:00 – Registration

09:00 – 09:15 – Welcome Session (**Soukaina / Carlos**)

09:15 – 09:45 – DCF Partner HUB – Starter Kit (**Franck**)

09:45 – 10:30 – Next-gen data center switching for the AI era (**Carlos**)

10:30 – 11:00 – Coffee Break

11:00 – 11:45 – DC network architecture best practices (**Korhan**)

11:45 – 12:30 – DC fabrics for AI clusters (**Dom**)

12:30 – 13:30 – Lunch

13:30 – 15:15 – SR Linux Primer – Hackathon Guidelines (**Alexandre**)

15:15 – 15:45 – Coffee Break

15:45 – 16:30 – Live Demo – SR Linux and Open Tool Integrations (**Walter**)

16:30 – 18:00 – Live Demo – New Data Center Fabric Manager (**Darren**)

18:00 – 18:15 – Nokia Showroom Lab Tour (**Rafael / Nikolay**)

18:30 – (Closing Day 1) - Departure to Dinner

## Second Day

### Wednesday (Sep 25<sup>th</sup>)

09:00 – 10:30 – Hackathon (Hands-On)

10:30 – 11:00 – Coffee Break

11:00 – 12:15 – Hackathon (Hands-On)

12:15 – 12:45 – Hackathon (**Partners Demo 1**)



12:45 – 13:45 – Lunch

13:45 – 15:15 – Hackathon (Hands-On)

15:15 – 15:45 – Coffee Break

15:45 – 16:30 – Hackathon (Hands-On)

16:30 – 17:00 – Hackathon (**Partners Demo 2**)



17:00 – Closing

# Partners Attending List

Registered (Ed. 2024)

Id	First Name	Last Name	Company
1	Pedro	Andre	axians
2	Gonçalo	Teixeira	
3	Daniel	Melzer	dacoso
4	Adnan	Kahric	
5	Claus	Andersen	netnordic 
6	Timo	Erma	
7	Matti	Virtanen	
8	Jonas	Jacobsson	
9	Christer	Andersson	
10	Ronald	van Os	nomios
11	Rolands	Truls	
12	Hawre	Stark	
13	Wolfgang	Siemes	Westcon 
14	Philipp	Glaser	xantaro <small>connecting the world.</small>
15	Utkarsh	Shah	

# Recap from 1<sup>st</sup> Edition (2023)

Nokia Europe DC Fabric Partners

The Nokia logo is positioned within a large, white, stylized arrow shape that points to the left. The arrow is composed of two parallel diagonal lines meeting at a point on the left. The background of the slide is a gradient of blue, transitioning from a darker shade at the top to a lighter shade at the bottom.

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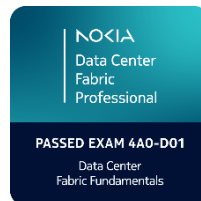
# Enterprise DCF Partners Hackathon (1<sup>st</sup> Edition) 2023

Summary from 1<sup>st</sup> edition



## Nokia DCF Certification Vouchers Granted

IMS Networks	1
Netnordic	5
Nomios	4
Westcon	4
Xantaro	3

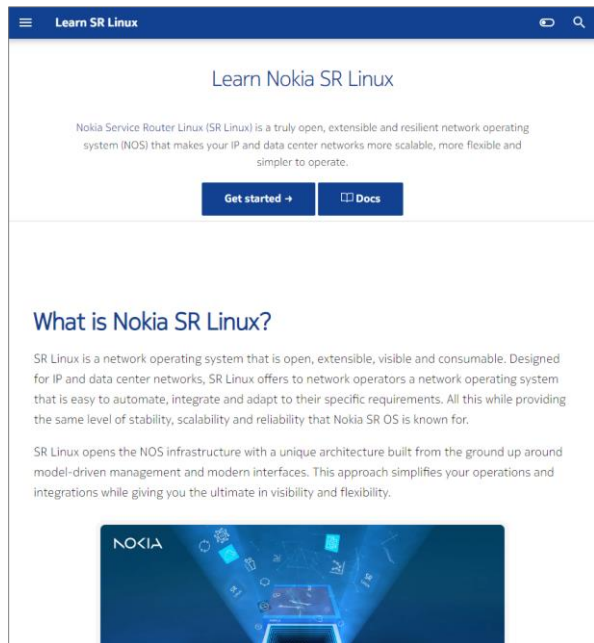


# Learning by doing

# How to learn SR Linux?

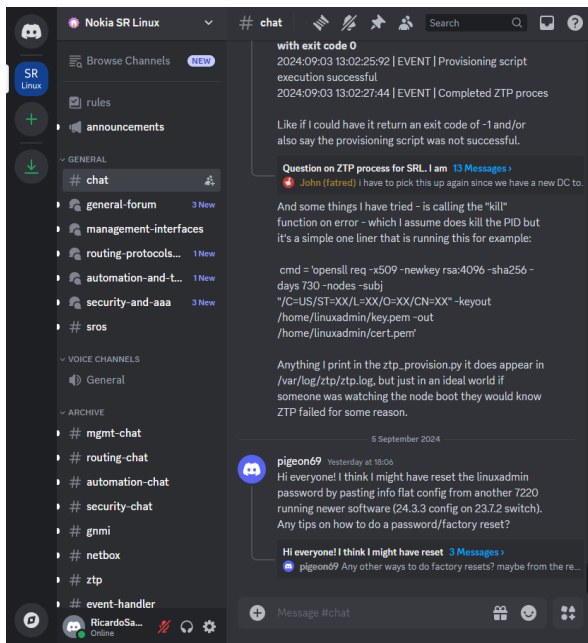
## Public resources

[learn.srlinux.dev](https://learn.srlinux.dev)



The screenshot shows the 'Learn SR Linux' website. At the top, it says 'Learn Nokia SR Linux'. Below that, a paragraph describes Nokia Service Router Linux (SR Linux) as a truly open, extensible, and resilient network operating system (NOS) that makes IP and data center networks more scalable, more flexible and simpler to operate. There are two buttons: 'Get started +' and 'Docs'. Further down, a section titled 'What is Nokia SR Linux?' explains that SR Linux is a network operating system that is open, extensible, visible and consumable. It is designed for IP and data center networks, offering a network operating system that is easy to automate, integrate and adapt to their specific requirements. All this while providing the same level of stability, scalability and reliability that Nokia SR OS is known for. It also mentions that SR Linux opens the NOS infrastructure with a unique architecture built from the ground up around model-driven management and modern interfaces. This approach simplifies your operations and integrations while giving you the ultimate in visibility and flexibility. At the bottom, there is a blue banner with the Nokia logo and various network-related icons.

[Discord channel](#)



The screenshot shows the 'Nokia SR Linux' Discord channel. The left sidebar lists various channels: 'SR Linux', 'rules', 'announcements', 'GENERAL' (including '# chat', '# general-forum', '# management-interfaces', '# routing-protocols...', '# automation-and-t...', '# security-and-aaa', and '# sros'), 'VOICE CHANNELS' (including 'General'), and 'ARCHIVE' (including '# mgmt-chat', '# routing-chat', '# automation-chat', '# security-chat', '# gnmi', '# netbox', '# ztp', and '# event-handler'). The main chat area shows a message from 'John (fatted)' about a ZTP process for SRL. The message includes a timestamp '2024:09:03 13:02:25:92 | EVENT | Provisioning script execution successful' and '2024:09:03 13:02:27:44 | EVENT | Completed ZTP proces'. It also mentions a 'kill' function on error and provides a command to run: `cmd = 'openssl req -x509 -newkey rsa:4096 -sha256 -days 730 -nodes -subj "/C=US/ST=XX/L=XX/O=XX/CN=XX" -keyout /home/linuxadmin/key.pem -out /home/linuxadmin/cert.pem'`. Below this, there is a message from 'pigeon69' about resetting the linuxadmin password.

[containerlab.dev](https://containerlab.dev)





# Welcome to the SR Linux documentation

Nokia Service Router Linux (SR Linux) is an open, extensible, and resilient network operating system (NOS) that enables superior scalability, flexibility, and efficiency in webscale, service provider, enterprise IP, and data center networks.

You might also be interested in the [features and benefits of SR Linux](#).

## Documentation topics



### Overview

Documents under this category provide an overview of the SR Linux product. This includes SR Linux basic functionality, features supported, and hardware platforms that support SR Linux software.



### Install and commission

Documents under this category help you install and commission your SR Linux software. This includes prerequisites, container installation, software upgrades, and recovery procedures.



### Operate and maintain

Documents under this category provide background concepts and procedures for configuring, operating, and maintaining SR Linux software.



### Monitor and troubleshoot

Documents under this category describe tools that can help you monitor, diagnose, and troubleshoot SR Linux software. This



### Reference

Documents under this category provide reference information about the SR Linux data model and the NetOps Development

# How to learn SR Linux?

<https://documentation.nokia.com/srlinux/24-7/>

[SR Linux R24.7](#) ▸ [Overview](#) ▸ [Product Overview](#)

## Product Overview

[Overview](#)

### Product Overview

[About this guide](#)[What's new](#)[About SR Linux](#)[Hardware overview](#)[SR Linux architecture overview](#)[SR Linux management overview](#)[SR Linux interfaces](#)[SR Linux routing functions](#)[SR Linux services](#)[SR Linux OAM and diagnostics tools](#)[Standards and protocol support](#)[Product Overview PDF](#)

*This document provides a basic overview of the Nokia Service Router Linux (SR Linux).*

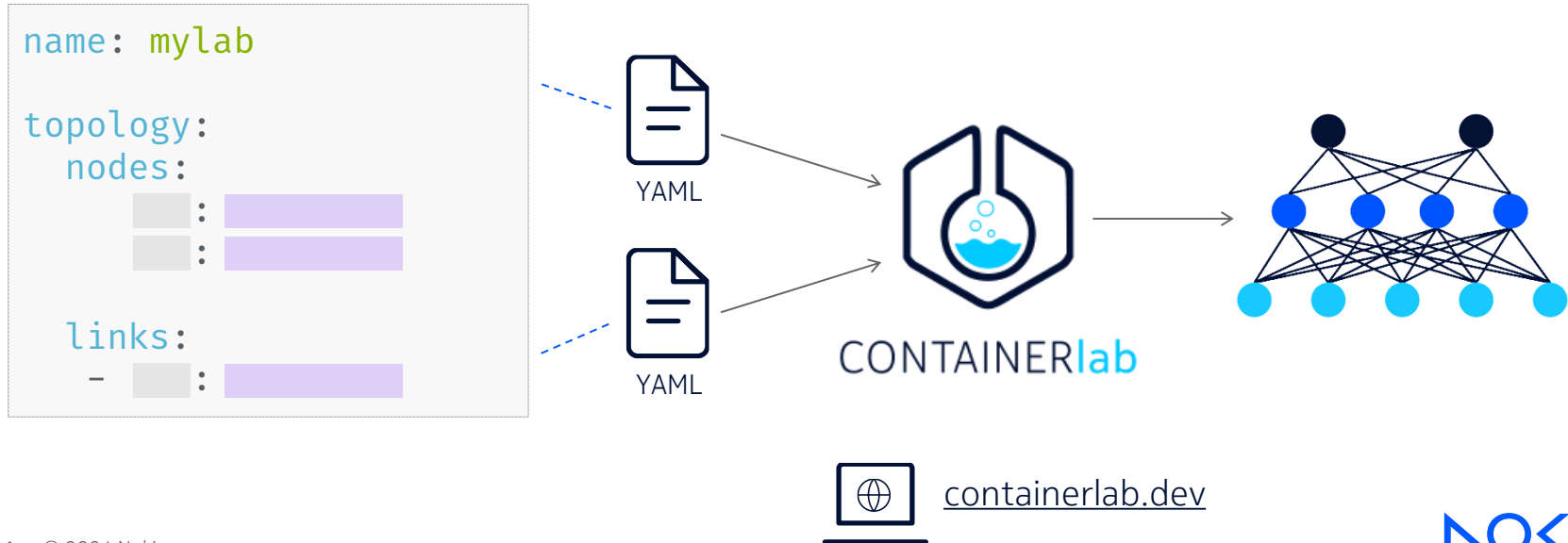
July 24, 2024

# Hackathon

`./clab deploy`

# Bringing a declarative way to build to network labs

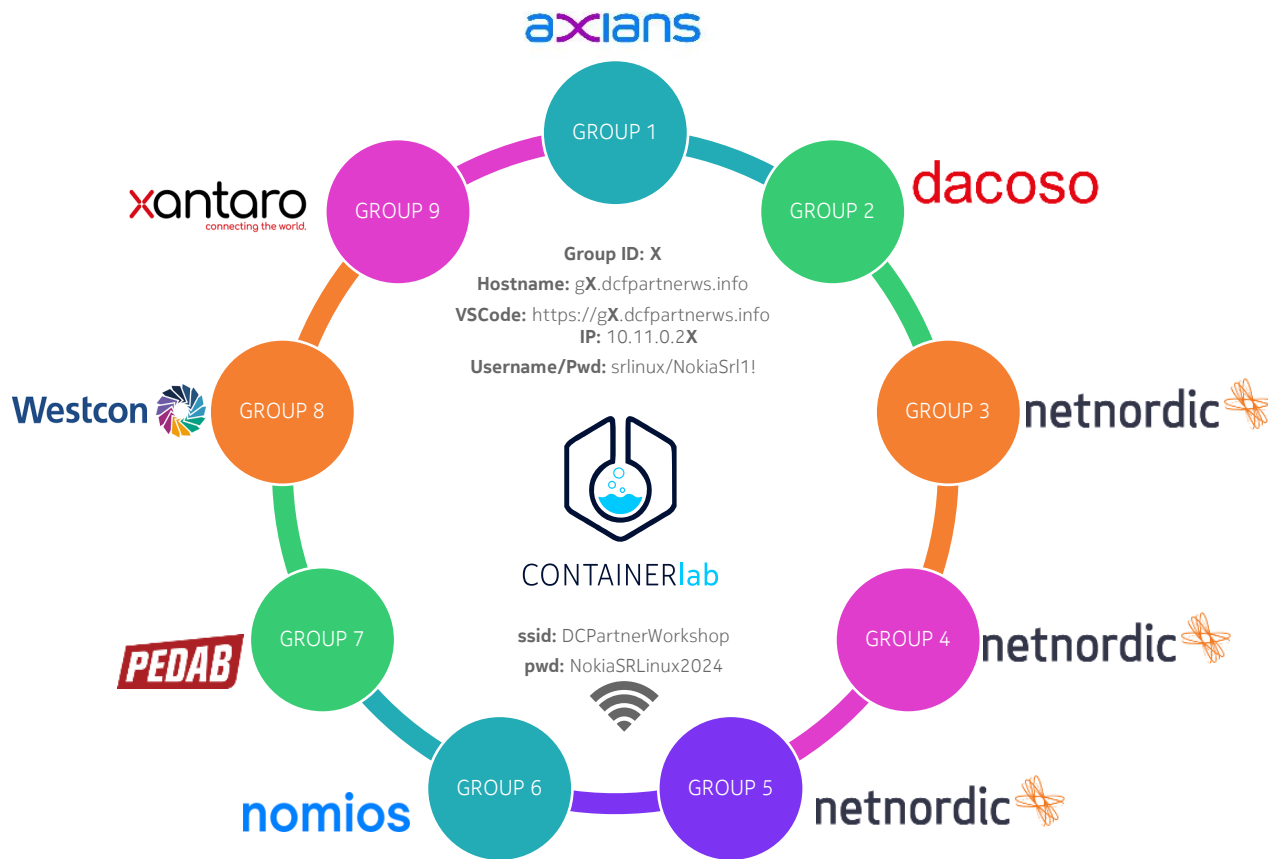
Containerlab provides a CLI for orchestrating and managing container-based networking labs. It starts the containers, builds a virtual wiring between them to create lab topologies of users choice and manages labs lifecycle.



# ./clab - Europe DCF Partners Hackathon 2024



How to  
Hackathon Guide



# Nokia Partners Hackathon Portugal - Mesh Wifi



A single SSID with internet breakout and DC Fabric access to the Hackathon labs.

Connect to SSID

**DCPartnerWorkshop**

Password

**NokiaSRLinux2024**

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Data Center

Fabric

Certification

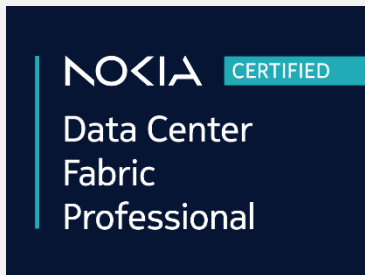
# Data Center Fabric Certification Program

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# Certification

Demonstrate your expertise with an industry-recognized certification



## Nokia Certified Data Center Fabric Professional

Learn the essentials of data center networking with Nokia's SR Linux.

[Learn more](#)



## Nokia Certified Data Center Fabric Network Expert

Acquire advanced configuration and troubleshooting skills for modern data center networking, including EVPN services and Data Center Interconnect (DCI) solutions.

[Learn more](#)



## Nokia Certified SR Linux Automation Expert

Acquire configuration and troubleshooting skills in programming Nokia SR Linux.

[Learn more](#)

# Certification requirements

	<div>NOKIA CERTIFIED</div> <div>Data Center Fabric Professional</div>	<div>NOKIA CERTIFIED</div> <div>Data Center Fabric Network Expert</div>	<div>NOKIA CERTIFIED</div> <div>SR Linux Automation Expert</div>
<b>Mandatory exams/recommended courses</b>			
Nokia Data Center Fabric Fundamentals	■	■	■
Nokia SR Linux EVPN and Data Center Interconnect		■	
<b>Mandatory lab exams</b>			
Nokia Data Center Fabric Network Expert Lab Exam		■	
Nokia SR Linux Automation Expert Lab Exam			■
<b>Recommended courses</b>			
Programming SR Linux: Management APIs & Automation			■
Programming SR Linux: NetOps Development Kit, CLI Plugins, and Event Handler			■

## Legend

- Mandatory written exam/recommended course
- Mandatory lab exam
- Recommended course

# Sign-up for free certification package

## Data Center Fabric Certification

A screenshot of a web form titled 'Enterprise Data Center Fabric Partner Hackathon learning offers'. The form is overlaid on a background image of server racks. The text on the form includes the dates 'September 24-25, 2024' and a note 'This form expires on October 1st at the end of the day.' At the bottom right of the form is a dark blue button with the text 'Iniciar agora'.

### Choose from one of the available learning offers below

- Nokia Certified Data Center Fabric Professional bundle (self-study + lab time + exam voucher)
- Programming SR Linux: Management APIs and Automation (self-study + lab time)
- Programming SR Linux: NetOps Development Kit, CLI Plugins, and Event Handler (self-study + lab time)
- Nokia SR Linux EVPN and Data Center Interconnect (self-study + lab time)

<https://forms.office.com/e/w5w2U0Yc0Y>

# Dinner

The Nokia logo is a large, white, stylized chevron shape pointing to the left, set against a background of red and orange diagonal stripes.

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Dinner - Let's get together



<https://www.cervejariatrindade.pt/en/>

**Nokia transfer will be provided as follow:**

**24th – Dinner (19:30 to 22:30)**

.> Departure from Nokia Office at 19:00

<. Dropoff to Nokia Office & Hotels LX at 22:30

<https://maps.app.goo.gl/ecwZCvbP8J5hZfxA7>



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