

Workshop

Building Containerlab with cEOS-lab

How to build a lab environment
with Containerlab and cEOS-lab

Petr Ankudinov, 2023



CONTAINERlab

Credits and References

Credits to [Roman Dodin](#) and [other cLab contributors](#) for making the world a better place!

This repository is based on many awesome open source repositories and some free/commercial Github features:

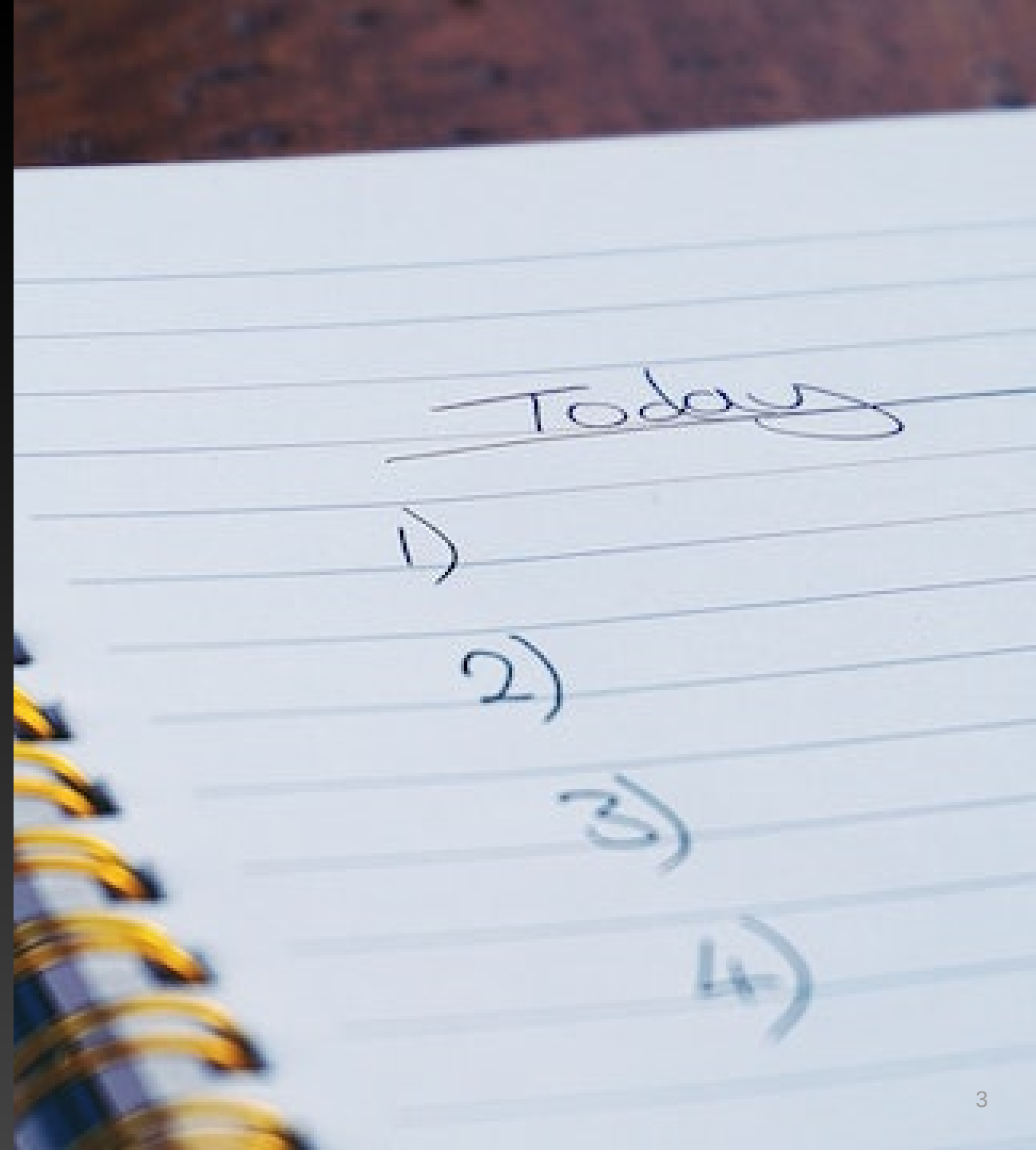
- [Containerlab](#)
- [VS Code](#)
- [DevContainers](#)
- [Marp](#)
- [Excalidraw VS Code Plugin](#)
- [Github Actions](#)
- [Github Pages](#)
- [Github Codespaces](#)
- And many more...

All photos are taken from [Pexels](#) and [Unsplash](#). Excellent free stock photos resources. It's not possible to reference every author individually, but their work is highly appreciated.

Agenda

- Setup Docker on the host
- Install Containerlab and import cEOS-lab image
- Clone this repository and deploy the lab
- Inspect and destroy the lab
- Deploy the lab with a custom startup config
- Make a packet capture
- cLab in a Container
- Possible caveats

This workshop is a step-by-step guide explaining how to build a lab environment with [Containerlab](#) and Arista cEOS-lab. It is focusing on essential and cEOS-lab specific features. Please check [Containerlab documentation](#) for details.



Prerequisites

- This workshop requires:
 - Ubuntu LTS 22.04 or later
 - 8 GB RAM and 4 vCPUs
- Only x86 architecture is supported. It is technically possible to [run Container lab on ARM](#), but there are no network images available for ARM as of Aug 2023.
- You can use [Github Codespaces](#) or [VSCode devcontainer](#) for this workshop. The detailed procedure is described in the appendix.
- The appendix also provides instructions for creating a KVM VM with Ubuntu Cloud Image.
- There is also Vagrant file available in this repository. Use it at your own risk.