

# Ansible in a Devcontainer

Entire arista.avd ecosystem in a sealed bottle

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## \$ whoami

- Petr Ankudinov [github.com/ankudinov](https://github.com/ankudinov)
  - Advanced Services Engineer at Arista Networks
  - Over 20 years of experience in IT with a bit of everything
  - ACE: L5, CCIE 37521
  - Passionate DC and network automation engineer
  - Daily (and nightly) user of Ansible, VSCode and more
- Patrick Mathy
  - Arista Systems Engineering at Arista Networks
  - Networking around since 2016
  - ACE: L5, CCIE 57751
  - R&S, DC, Python, Ansible, Terraform, DevNet



# Agenda

- Ansible AVD collection overview
- Common challenges when building Ansible environment for network automation
- Why devcontainers?
- Pre-building a devcontainer with [arista.avd](#), docker-in-docker and Containerlab using Github [devcontainers/ci@v0.3](#) action.
- How to run the container on any machine (with docker run or as devcontainer) or Github Codespaces



# Credits and References

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

- [VS Code](#)
- [DevContainers](#)
- [Marp](#)
- [Excalidraw VS Code Plugin](#)
- [Github Actions](#)
- [Github Pages](#)
- [Github Codespaces](#)
- [Carbon](#)
- 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.

# What is Ansible AVD?

- AVD stands for Arista Validated Design
- Documentation is available at [avd.arista.com](https://avd.arista.com)
- Historically it is based on the [EVPN Deployment Guide](#), but now it's much more advanced and developing fast.
- Ansible AVD repository is available here: [github.com/aristanetworks/ansible-avd](https://github.com/aristanetworks/ansible-avd)
- The Ansible AVD collection is relying on:
  - [EOS foundational modules](#) maintained by RedHat: `ansible-galaxy collection install arista.eos`
  - [Ansible CVP modules](#) to interact with CloudVision Portal when required