



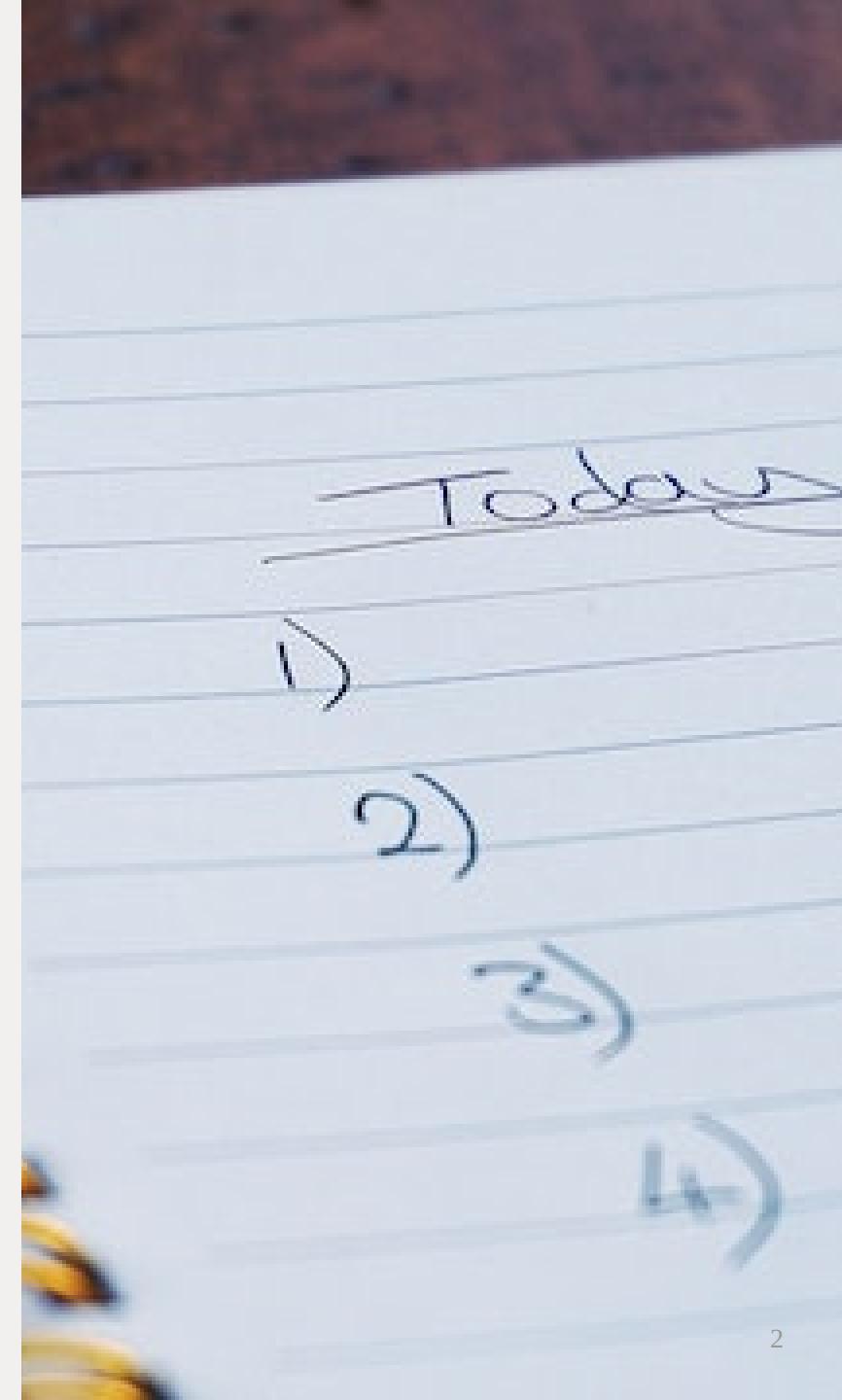
# Fun with ANTA

ANTA Hackathon Script

# Introduction

- This hackathon is split into 3 sections. Each section takes around 20 minutes to complete. But it can takes more time if you are running it on your own.
- Work in team, only one submission per team
- Repository is available at [titom73/anta-malaga](https://github.com/titom73/anta-malaga)
- An Arista Test Drive is required. \*\*
- Ask questions at any time!
- Google Chat: [#anta-field](#) on Google Chat

\*\* There is an alternative cLab setup integrated with this repository and a container with all dependencies (see the last slide for details). Use at your own risk! ATD is the only supported option.



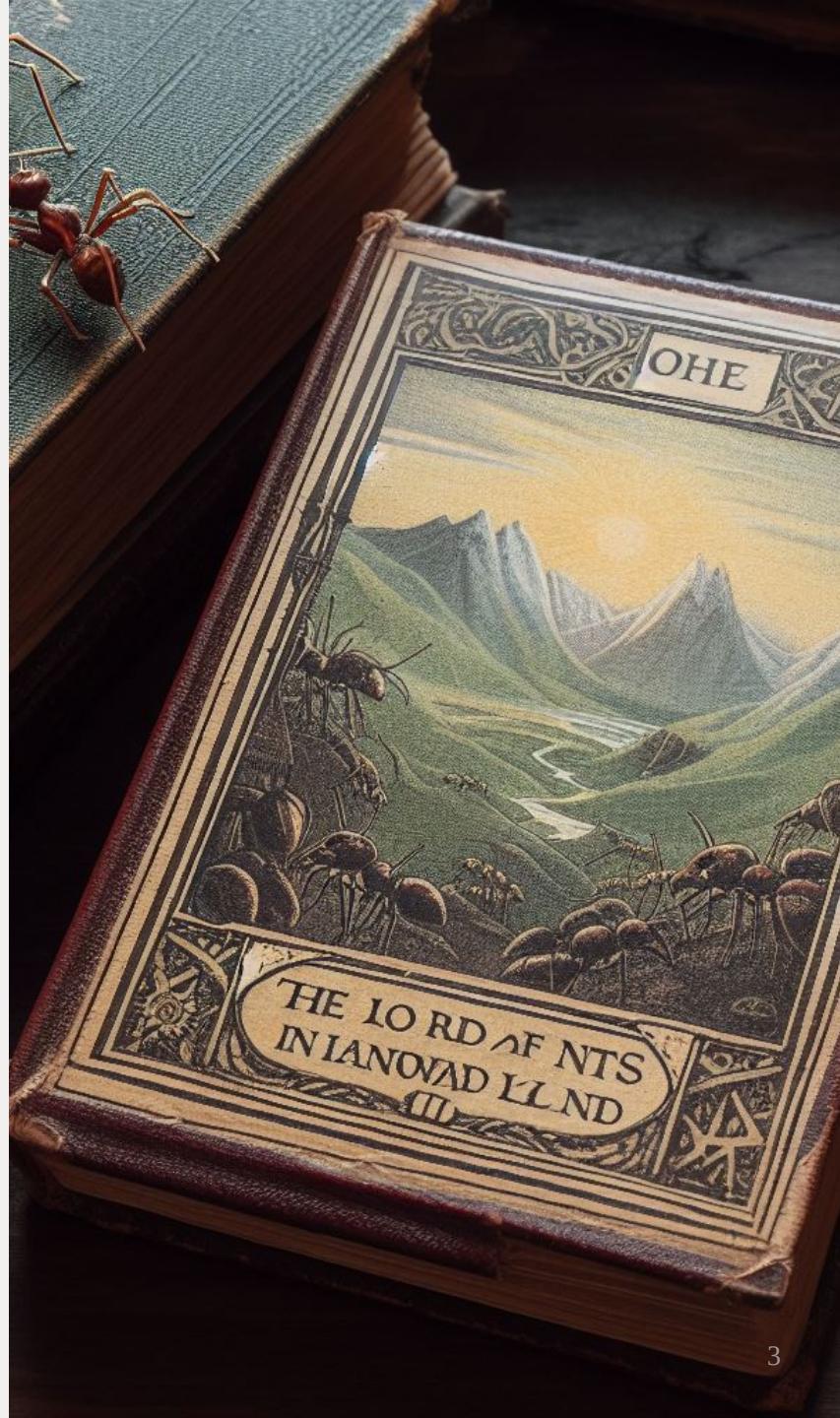
# Context

Your customer told you their servers can't reach resources and they configure servers and fabric with LACP

You don't have access to configuration of devices and you need to identify his issue.

Test your fabric to check:

- If all BGP sessions are UP and established.
- If all interfaces are UP and do not have error or drop counters.
- EVPN family is configured.





# Stage #1

1. Create an ANTA inventory from scratch
2. Create an ANTA test catalog from the test plan
3. Is there any issue on the fabric?

**That's all folks!**

Use your brain and RTFM:

- [Use Inventory & Catalog](#)
- [ANTA CLI overview](#)
- [Get Inventory Information](#)
- [ANTA Tests catalog](#)

# Stage #2

Now, you have seen that PortChannel4 is down

Develop a test to check LACP status:

- Check PortChannel is in collecting mode
- Check PortChannel is in distributing mode

## Tips

- Use pip install -e .
- Develop your tests under ./anta\_custom/<your\_file>.py
- Your test will be available with anta\_customer.<your\_file>.<your\_test>
- [Test development example](#)





## Stage #3

Traffic is still not passing correctly. Check that all connected routes are correctly installed in routing table. You should have at least 3 connected routes installed in VRF `Tenant_A_OP_Zone`

Develop a test based on `AntaTemplate` to validate number of connected routes in VRFs:

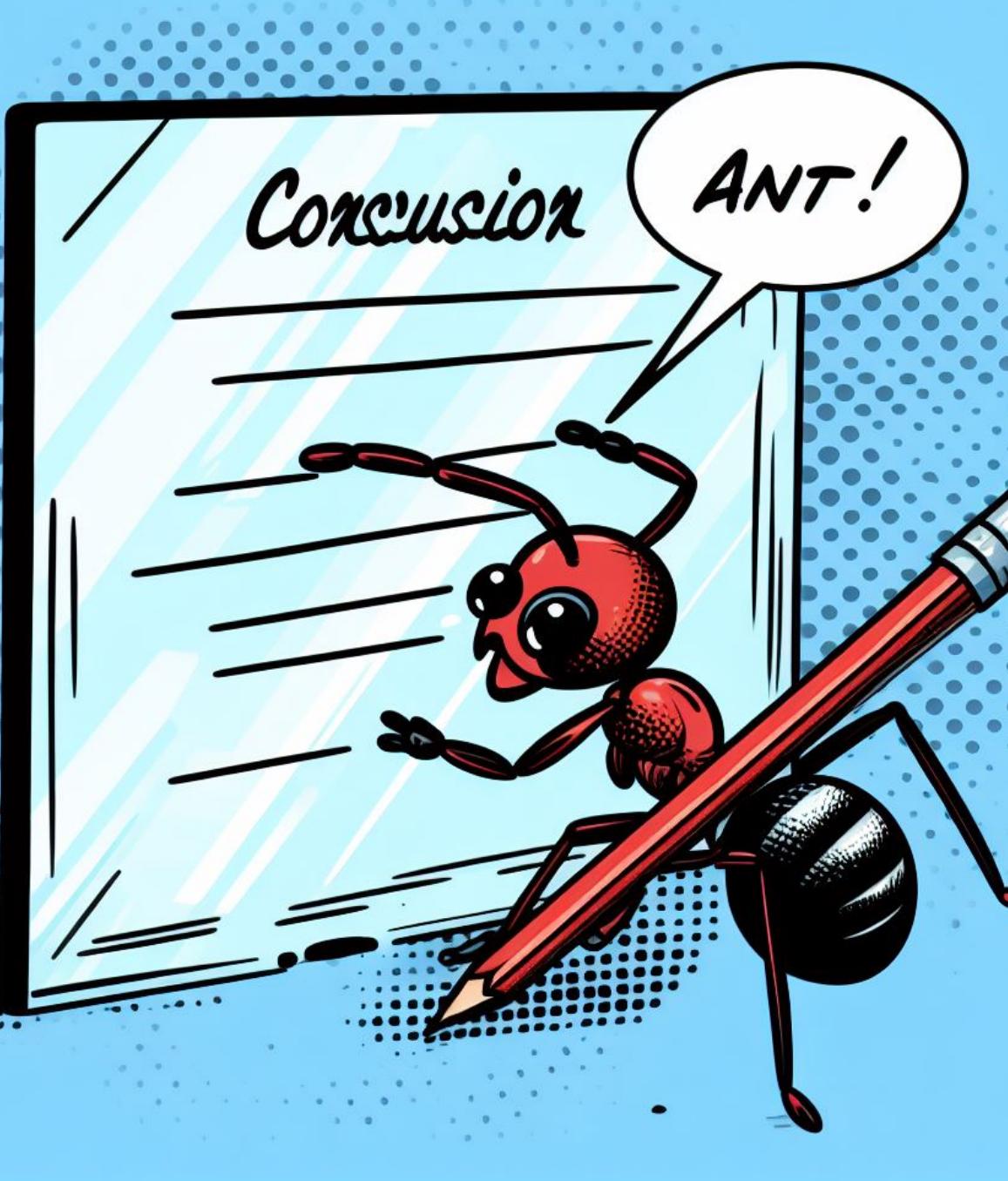
- Test **must** use `anta.models.AntaTemplate`
- VRF name is an template input for your test.
- Run ANTA to check routes status and fix configuration in EOS.

# Stage #4

You can now build additional tests to make your customer happier with his Arista Fabric.

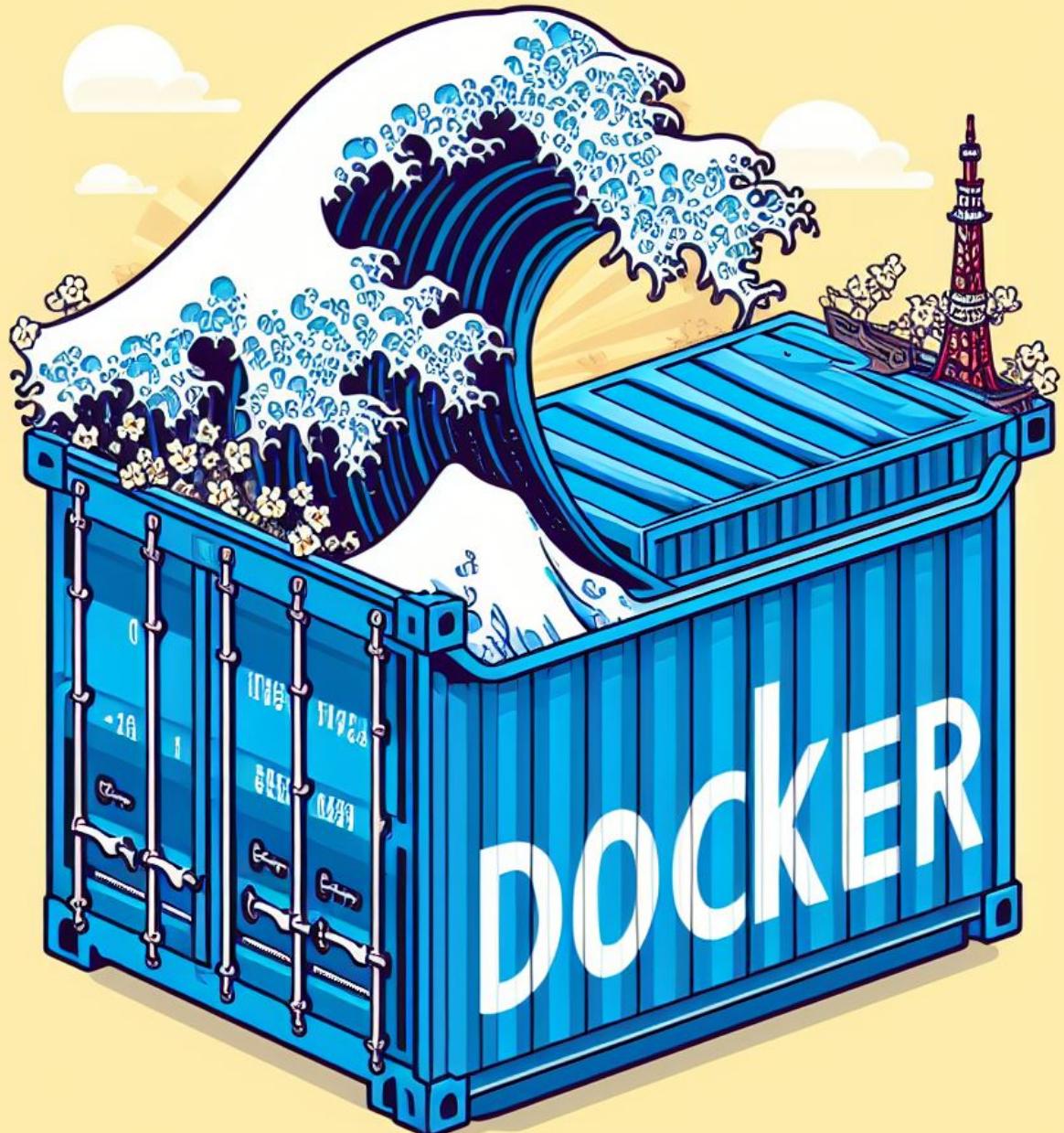
**Stage is yours !**





## Conclusion

- How do you think you can use ANTA in the field ?
- What key feature is missing for customer's usage ?



# ANTA Environment in a Dev Container

- Hackathon repo includes a dev container with AVD, ANTA and Containerlab pre-installed.
- Set ARTOKEN environment variable first to download cEOS image inside the container. Or add it as a bind mount.
- Simply clone the repository in VSCode to start a devcontainer. You'll need Docker Desktop and VSCode Dev Containers extension installed.
- Investigate the environment yourself. It's a hackathon. 😊
- This will not work on ARM-base MacBooks, sorry! There is no image to pull. But! You can run the container as Github Codespace.
- Feel free to ask questions, but not for support! Dev Container has a lot of benefits, but ATD is the only supported option.

BREAKING NEWS: AVD Dev Containers preview is coming soon (you can already pull some). Let's build more demos, hackathons, examples, POCs, workshops, etc. for us and our customers!

