

AVD Provisioning on CVaaS

Provisioning Workflow Demo
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Sep 2023



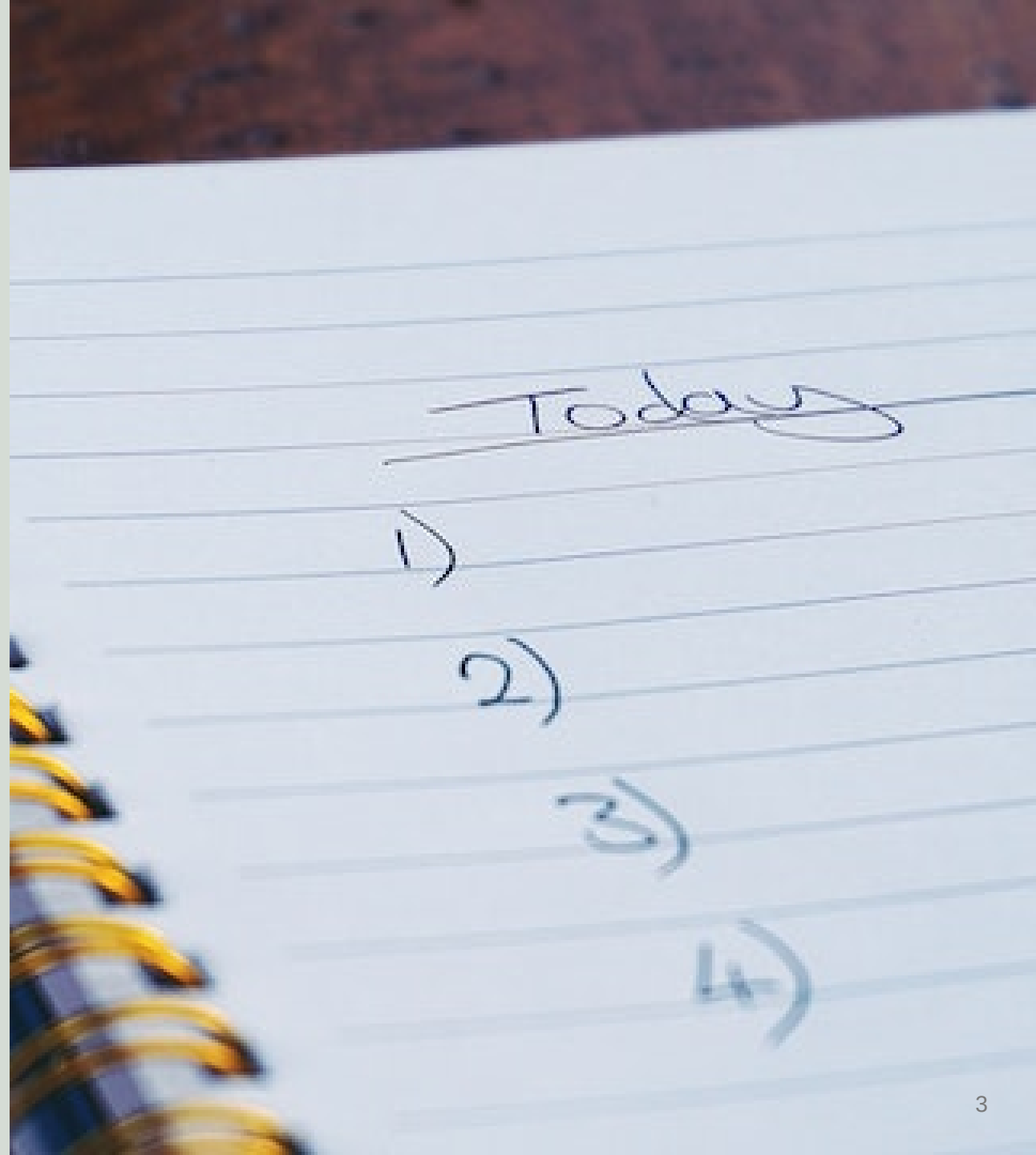
\$ whoami

- Petr Ankudinov 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) VSCode user



Agenda

- Ansible AVD collection overview
- tbd



Credits and References

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

Tool	Purpose
VS Code	create this repository code
DevContainers	our topic for today
Marpit	Markdown slide deck framework
Github Actions	build slides and containers
Github Pages	publish slides
Github Packages	publish containers
Github Codespaces	run the demo container
Carbon	code snippets
Pexels and Unsplash	Excellent free stock photos resources. It's not possible to reference every author individually, but their work is highly appreciated.
excalidraw , drawio , tldraw	VSCoDe plugins to create drawings
Containerlab	Orchestration tool for container based networking labs
Arista AVD Ansible Collection	Ansible collection used to build EVPN network
Ansible	Automation for everyone.

What is Ansible AVD?

- **AVD** stands for Arista Validated Design as it was based on the [EVPN Deployment Guide](#)
- A very successful community project used to deploy EVPN based Data Center fabrics
 - Over [200 stars on Github](#) and 79 contributors as of Sep 2023
 - The most active Arista collection on [Ansible Galaxy](#)
- High level workflow:
 - Define abstracted group/host vars using AVD data model
 - Generate low level device specific variables (aka structured configs)
 - Parse templates, build plain text configs
 - Deliver configs to network devices using Ansible `arista.eos.eos_config`

