

# Welcome to NetAuto Group

## Episode 4



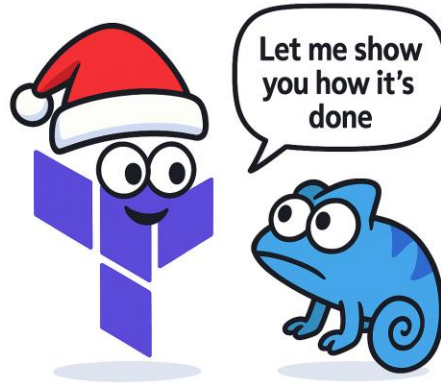
### What's Cooking today?

- 18:30 Get together and Pizza
- 19:00 Talk 1 with Uzma
- Short Break
- Talk/Discussion with Florian



**GNS3 + Terraform Provider = “Nice Try.”**

**GNS3 + Orchestrator = “Okay, Now We’re Talking.”**

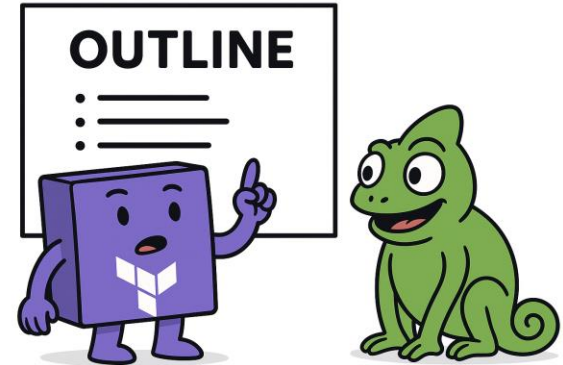


**Uzma** NetDevOps engineer @*Logicalis Connected GmbH*

# Outline

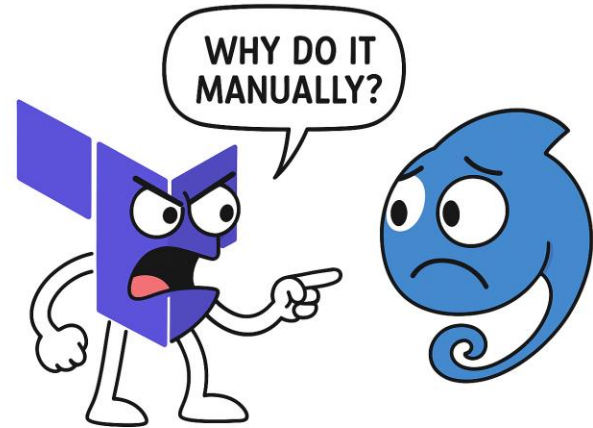


- **Why terraform provider**
- **Problems terraform provider**
- **Enter GNS3 Orchestrator**



# Why Terraform provider for gns3 ?

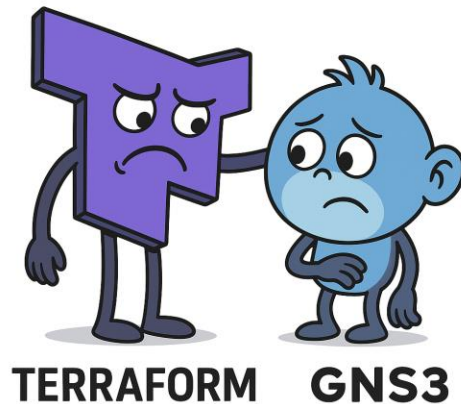
- Terraform is an Infrastructure-as-Code (IaC) tool that provisions resources on various platforms by interacting with their APIs.
- GNS3 is one of the most widely used and longstanding network simulation tools, familiar to nearly every network engineer.
- Together, they provide an excellent starting point for beginners looking to explore and understand Infrastructure-as-Code concepts.



# Problems with the Terraform and gns3 combined



- The Problem with Terraform State in Dynamic GNS3 Topologies
- Let's be honest it's not all on Terraform. GNS3's internals aren't exactly state-friendly either.
- A good start but turning this into a reliable GitOps and CI/CD pipeline will take many more steps



# GNS3 Orchestrator

- Single automation entry point for managing GNS3-based network topologies using a unified, declarative YAML file as the source of truth.
- Continuous Reconciliation: Keeping Reality in Sync
- **Deploy, Configure, Validate**



# THANK YOU and Questions ?

Thank You?  
Questions?

