

# Automate Data Center Network Operations with Kubernetes

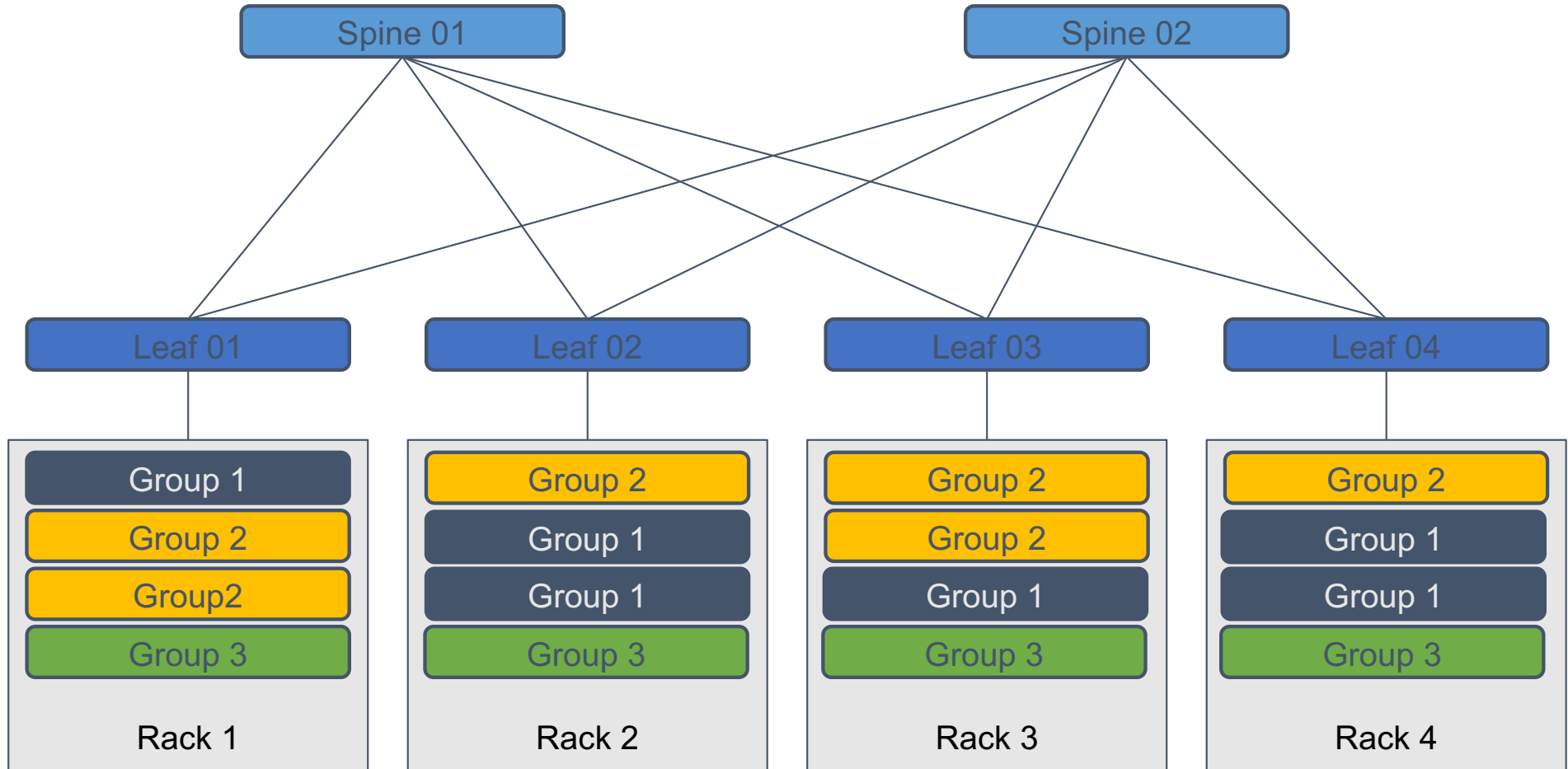
Logan Blyth - Hedgehog

# How do you maintain a multi-tenant Clos topology?

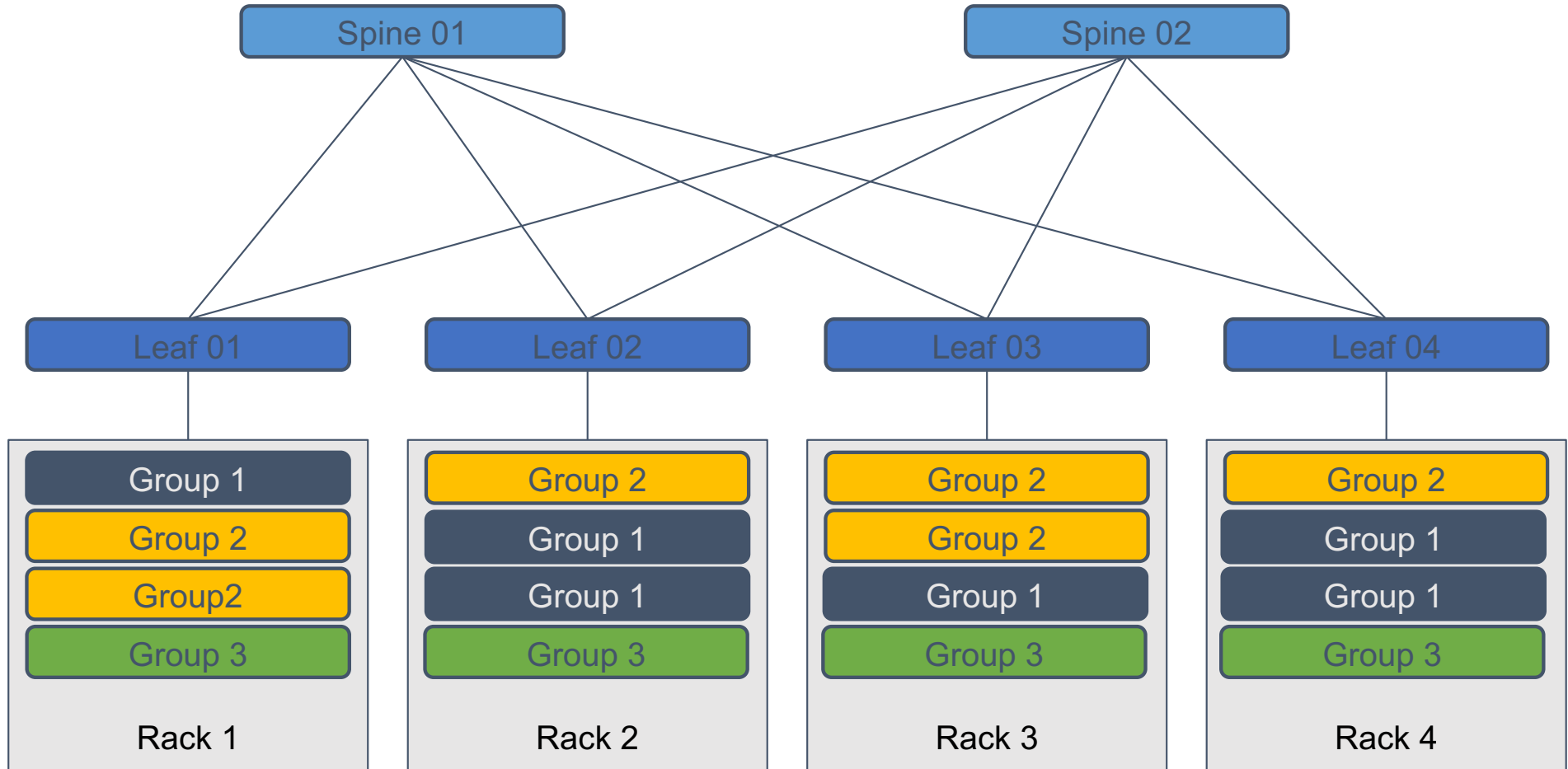
By 🖐️ with your 🧠 ?

Clos no you don't

What is the mental load of creating this config?



What is the mental load of modifying this config?



# Network Management Is Hard

Automation can make things easier



# **Automate!** **Make Management Easier**

Code doesn't make (many) mistakes



# Automation is an Agreement



[Fabian  
Gieske via  
unsplash](#)

# Choose the Right Abstraction





# Keep your Automation Online

Start on your laptop, after you're happy,  
move to a server





# Don't Reinvent the Wheel

Photo by [Tapan Popat](#) on

# Kubernetes (K8s) as the Foundation



# Open Network Fabric atop Kubernetes

<https://github.com/githedgehog>

# Terraform Demo

- Starts with k9s TUI
- Terraform -> Kubernetes -> Switches
- Illustrating the power of an ecosystem - a generic plugin for a third party tool can manage automation in your network
- Turning a single file into a config that deploys to multiple switches, across a fabric.

# Questions?