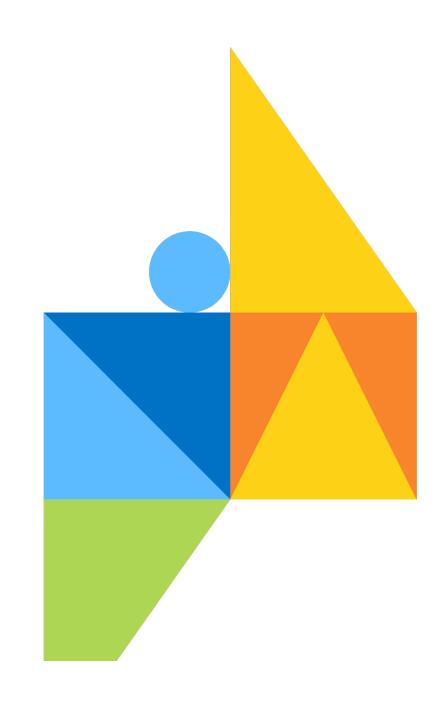
# Terraform Provider for Microsoft 365

Manage Intune and EntralD as Code





### Which problem are we trying to solve?

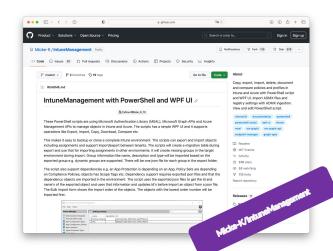
- Microsoft 365 tenant (especially **Intune**) configuration is a complex beast
- If you are alone and have just one tenant, you may be ok with 'clicks in portals', but ...
- If you are a team of admins, have multiple tenants (staging/production | MSP) to manage,
  'clicks in portals' is not a scalable option.
  - documentation
  - change tracking / versioning
  - auditing
  - detect manual changes
  - disaster recovery
  - blueprint tenant creation / automation

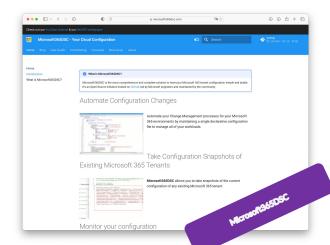




# There are already solutions for this problem

- The general idea is called Configuration-as-Code (or Desired State Configuration / Infrastructure-as-Code)
- We had a long journey accross multiple tools and approaches
- Some are kind of creative, some are kind of professional including DevOps integration



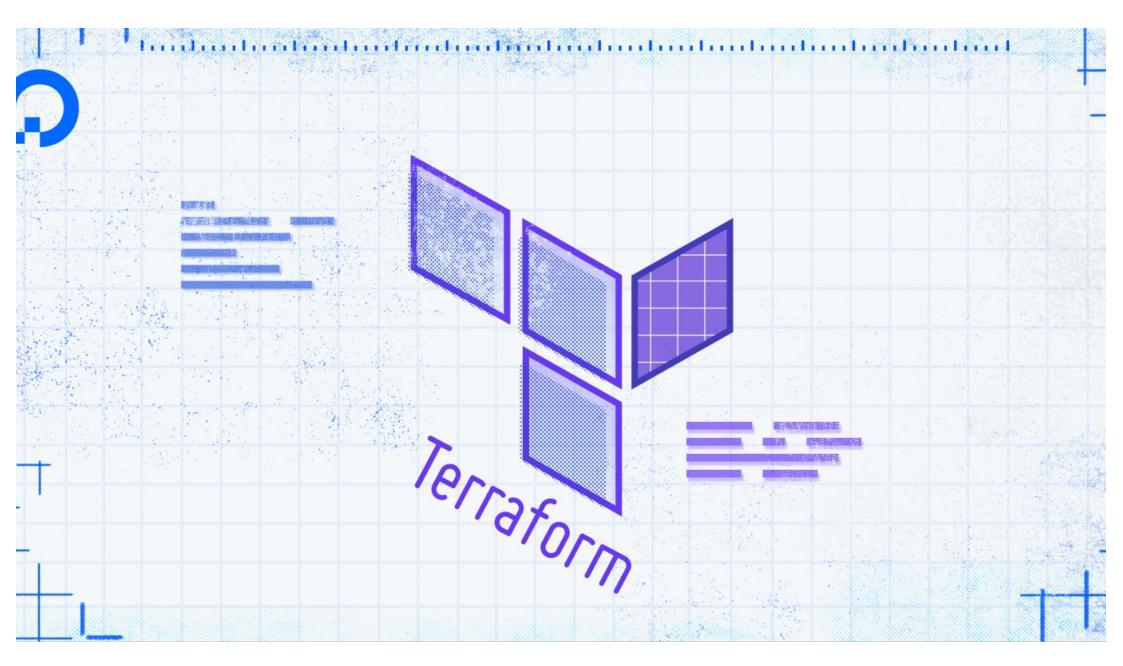




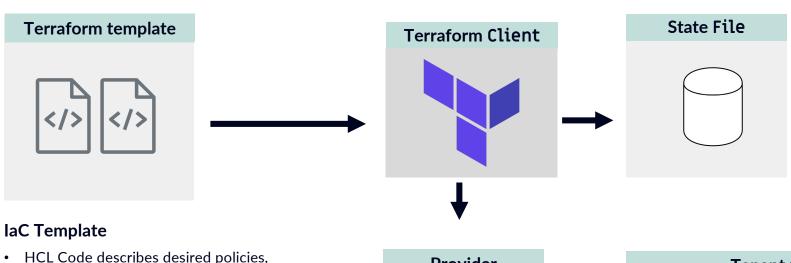
## Powershell? Nails everywhere...

- The law of the instrument, law of the hammer, ... is a cognitive bias that involves an over-reliance on a familiar tool. Abraham Maslow wrote in 1966, "If the only tool you have is a hammer, it is tempting to treat everything as if it were a nail." (Wikipedia)
- Don't get me wrong:We ♥ Powershell but is it the right weapon for Configuration-as-Code?
- Beside a lot of design considerations and caveats ... why not ignore the hammer and check out which toolchain is used for nearly 40% of worldwide cloud automation?

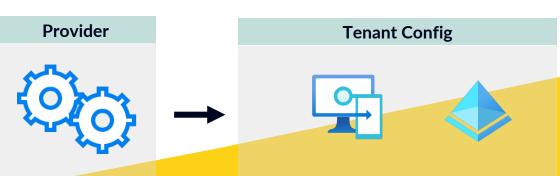




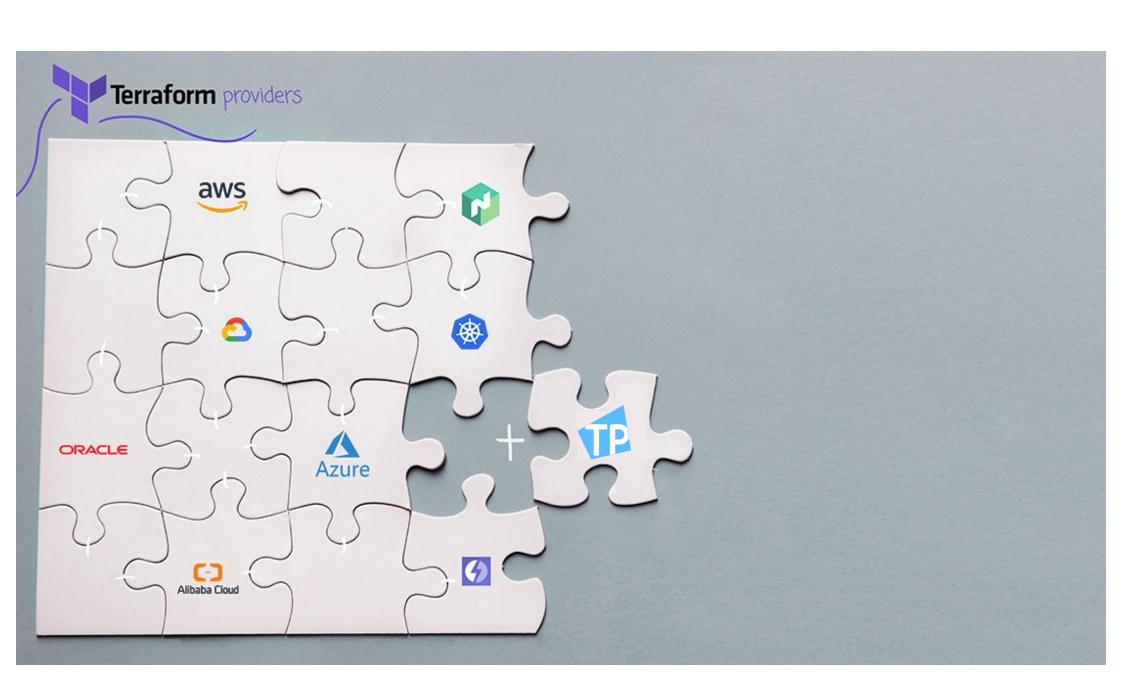
# **Basic Architecture Terraform**



- HCL Code describes desired policies, filters, groups etc.
- Supports variables
- Can be modular



glueckkanja.com



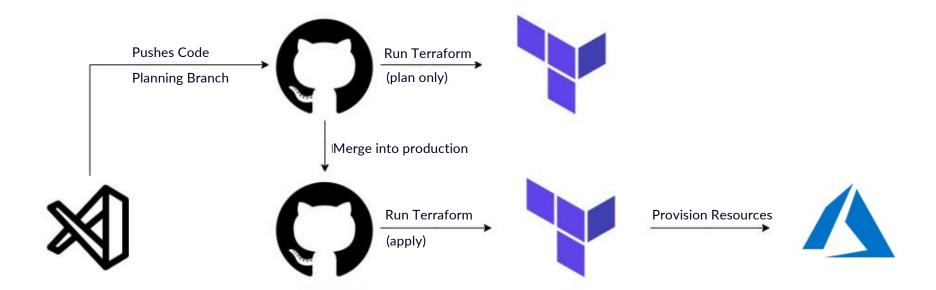
## Handles everything? Not yet...

- TerraProvider already handles
  - Conditional Access and Authentication Strength Policies
  - Intune
    - Filters
    - Compliance Policies
    - Configuration Policies (Templates and Settings Catalog)
    - Windows Update Rings / MacOS Update Settings
    - Endpoint Security Policies and Defender configuration
    - Autopilot Profiles, Device Enrollment Settings

More to come.



# **Basic Terraform Lifecycle**





## **Quick-Start content**

- We will release a simplified, easy to start base set of policies and best practises
  - Module Structure
  - Parameter Definition Template
  - Premade GitHub Action Templates
  - Basic Policies to start from (main difference to our internal BluePrint)
  - Open Source and available on GitHub

