TERRAFORM ADVANCED - MASTERING TERRAFORM MODULES
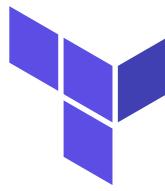
Kategoria	Czas trwania	Termin	Cena
DevOps	12h	ustalamy indywidualnie	ustalamy indywidualnie

Program szkolenia:

Poniżej przedstawiamy przykładowy program szkolenia, który może zostać zmodyfikowany zgodnie z oczekiwaniami oraz poziomem grupy szkoleniowej. Przed przygotowaniem docelowego programu szkolenia, przeprowadzamy rozmowę techniczną, w której bierze udział trener oraz osoba techniczna lub cały zespół developerów reprezentujący klienta, w celu ustalenia szczegółów szkolenia.

1. Review of Basic Module Concepts

- A brief recap of Terraform module basics to ensure a solid foundation for advanced topics. This will cover defining and calling modules.

2. Advanced Module Composition

- Delve into strategies for composing modules to build complex infrastructures.
- Explore the principles of module independence and reusability.

3. Environment Agnostic Modules

- Learn how to design modules that are agnostic to the deployment environment.
- Discuss passing environment configurations as variables to modules.

4. Dependency Handling in Modules

- Explore advanced techniques for managing dependencies between modules.
- Cover the use of **depends_on** and explicit dependency passing.

5. State Management in Modular Setups

- Discuss strategies for managing state files in a modular setup. Explore remote state management and data sharing between modules.

6. Error Handling and Validation in Modules

- Learn how to implement error handling and validation within modules to ensure robust and error-free configurations.

7. Testing Terraform Modules

- Explore testing frameworks and strategies for testing Terraform modules to ensure they behave as expected across different scenarios.

8. Versioning and Releasing Modules

- Discuss version control, semantic versioning, and release management for Terraform modules to ensure smooth transitions and upgrades.

9. Module Performance Optimization

- Delve into performance considerations for module design. Explore parallel resource provisioning and other optimization techniques.

10. Best Practices for Module Documentation

- Learn how to document Terraform modules comprehensively, ensuring ease of use and maintenance.

11. Case Study: Real-world Module Development

- Analyse a real-world case study of developing, testing, and deploying a complex module setup in a large-scale infrastructure.