Szkolenie: Google Cloud
# Getting Started with Terraform for Google Cloud

## DOSTĘPNE TERMINY

2026-04-27 | 1 dzień | Warszawa / Wirtualna sala
2026-05-26 | 1 dzień | Kraków / Wirtualna sala
2026-06-30 | 1 dzień | Warszawa / Wirtualna sala

## Cel szkolenia:

This course provides an introduction to using Terraform for Google Cloud. It enables learners to describe how Terraform can be used to implement infrastructure as a code and to apply some of its key features and functionalities to create and manage Google Cloud infrastructure. Learners will get hands-on practice building Google Cloud resources using Terraform.

What you'll learn

- Define the business need for infrastructure as code and the benefits of using it in your environment.
- Explain the features and functionalities of Terraform.
- Use Terraform resources, variables, and output values to create Google Cloud infrastructure resources.
- Use Terraform modules to build reusable configurations.
- Explain Terraform state and its importance.

Audience

Cloud engineers, DevOps engineers, and individuals who want to start using Terraform to automate infrastructure provisioning with a focus on Google Cloud Platform

## Plan szkolenia:

- Module 1 - Introduction to Terraform for Google Cloud
  - Topics
    - Introduction to IaC
      - What is infrastructure as code (IaC)?



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- Problems IaC can solve
- Benefits of IaC
- Provisioning versus configuration
- Imperative versus declarative approach

- Introduction to Terraform
  - Terraform overview
  - Terraform features
  - IaC configuration workflow
  - Terraform use cases
- Using Terraform
  - How to use Terraform
  - Running Terraform in production
  - Installing Terraform
  - Authentication for Google Cloud

- Objectives
  - Define infrastructure as code.
  - Explain the features and benefits of using Terraform.
  - Explain the use case of Terraform for Google Cloud.
  - Describe how to use Terraform for Google Cloud.
- Activities
  - 1 quiz

- Module 2 - Terms and concepts
  - Topics
    - The Author phase
      - Terraform Directory structure
      - Introduction to HCL syntax
      - Resources
      - Variables
      - State
      - Modules
    - Terraform commands
      - terraform init
      - terraform plan
      - terraform apply
      - terraform fmt
      - terraform destroy



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- Terraform Validator tool
  - Introduction
  - Why use the Terraform Validator tool
  - Validation workflow
  - Terraform Validator use cases
- Objectives
  - Explain the Terraform workflow.
  - Create basic configuration files within Terraform.
  - Explain the purpose of a few Terraform commands.
  - Describe the Terraform Validator tool.
  - Create, update, and destroy Google Cloud resources using Terraform.
- Activities
  - 1 lab
  - 1 quiz

- Module 3 - Writing Infrastructure Code for Google Cloud
  - Topics
    - Introduction to Resources
      - Resources overview
      - Syntax
      - Example
      - Refer a resource attribute
    - Considerations to define a resource block
    - Meta-arguments for resources
    - Resource dependencies
      - Implicit dependency
      - Explicit dependency
    - Introduction to Variables
      - Overview
      - Syntax to declare a variable
      - Syntax to reference and assign a value to a variable
      - Variables best practices
    - Introduction to output values
      - Output values overview
      - Best practices
    - Terraform Registry and CFT
      - Introduction to Terraform Registry



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        - Introduction to CFT
    - Objectives
        - Declare the resources within Terraform.
        - Explain implicit and explicit resource dependencies.
        - Use variables and output values within the root configuration.
        - Explain Terraform Registry and Cloud Foundation Toolkit.
    - Activities
        - 1 lab
        - 1 quiz
- Module 4 - Organizing and Reusing Configuration with Terraform Modules
    - Topics
        - Introduction to modules:
            - Why are modules needed
            - What is a module?
            - Example
        - Reusing configurations by using modules
            - Module sources
            - Calling a module into the source configuration
        - Using variables to parameterize your configuration
        - Pass resource attributes using output variables
        - Module use cases, benefits, and best practices
    - Objectives
        - Define Terraform modules.
        - Use modules to reuse configurations.
        - Use modules from the public registry.
        - Use input variables to parameterize configurations.
        - Use output values to access resource attributes outside the module.
    - Activities
        - 1 lab
        - 1 quiz
- Module 5 - Introduction to Terraform State
    - Topics
        - Introduction to Terraform state
            - How information is stored in a Terraform state file
        - Ways to save a state file
        - Storing a state file in a Cloud Storage bucket



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        - Issues when storing the Terraform state locally
        - Benefits of storing a state file in a Cloud Storage bucket
        - Process of storing a Terraform state file remotely in a Cloud Storage bucket
    - Terraform state best practices
- Objectives
    - Define Terraform state.
    - List the benefits of storing the state file remotely.
    - Explain how to store the Terraform state in a Cloud Storage bucket.
    - Explain Terraform state best practices.
- Activities
    - 1 lab
    - 1 quiz

## Wymagania:

To get the most out of this course, participants should:

- Complete Google Cloud Fundamentals: Core Infrastructure
- Have basic programming skills and familiarity with using CLI
- Have general familiarity with Google Cloud

## Poziom trudności

## Certyfikaty:

The participants will obtain certificates signed by Google Cloud Platform.

## Prowadzący:

Authorized Google Cloud Platform Trainer.



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