

## “Working with Terraform infrastructure in the AWS cloud”\*

### Training information:

**Duration:** 2 days

**Number of hours:** 16

**Training hours:** 09:00-17:00

**Mode of training:** on-line

**Work methods:** lectures, exercises, laboratories

**Document confirming completion of the training:** certificate

**Price:** 2 200 PLN net (2 706 PLN gross)

**\*The training is also available in a version that does not include the AWS cloud**

### Trener: **Maciej Rostański**

Cloud Architect and DevOps. Doctor of Engineering, he has been dealing with the topics of system and network administration and business continuity of IT systems for several years. Academic lecturer who combines his scientific interests with practical work for IT companies, performing DevOps and R&D work - currently associated with Hostersi. Author of books and scientific papers on modern Internet technologies, and privately an avid computer gamer and cinema lover, but first and foremost a father of two daughters, who effectively occupy any remaining free time he has.

### Requirements:

- The trainee should have his **own laptop with any operating system** installed. The software needed for the training will be installed on a virtual machine and available in the public cloud.

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- Grafana will be accessed through any **web browser**, such as firefox, chrome, which should be installed on the participant's computer.
- Participants will need any **SSH client** that enables ssh login to the VM.
- The participant should have the version **control tool ‘git’** and a **GitHub account** installed.
- In addition, you will need a **code editor** of your choice (**Visual Studio Code recommended**).

## Course syllabus:

### 1. Introduction

- working with commands vs. working with Terraform code,
- a short course on working with the AWS cloud,
- basic infrastructure resources,
- basic Terraform commands.

### 2. Terraform structures

- resources and information, basics of provider configuration,
- variables and outputs,
- parameterisation of variables, tfvars,
- variable types,
- modules,
- project: VPC network and Security Groups.

### 3. Techniques

- state (state) Terraform,
- remote state and teamwork,
- Terraform versions,
- workspaces,
- multiple resources (count, for\_each),
- project: EC2 machine group.

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**Materials:** presentation slides, digital authoring exercises.

**Post-training support:** materials ready for use in your company.

## Knowledge and skills after training

After the training, the trainee will be able to, among other things:

- realise a typical infrastructure in Terraform,
- use constructs, interpolations and functions to automate the running of multiple environments and instances,
- implement the DRY (Don't Repeat Yourself) principles using modules, remote state files and the terraform overlay,
- prepare the completed project for group work and development,
- implement the completed project of a real production infrastructure in the AWS cloud.

## Information about the organiser

**Name:** Fundacja SysOps/DevOps Polska

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