

Tech Task:

Create a microservice serving REST API with GET calls returning 100 jokes starting from the newest from bash.org.pl in JSON format; service must be created and launched in Docker container.

Create Terraform code for provisioning custom VPC + EC2 and proper Security Groups to allow access to the services from the Internet using specific port (for example to execute curl to get the response or reach Jenkins)

Create Ansible playbook to install required libraries, os updates and tools on the EC2 instance and Jenkins before the microservice deployment

Deploy the microservice on AWS EC2 using CI/CD (Jenkins) and gitflow. Jenkins can be installed on the same instance as the microservice.

Place all codes for Terraform, Ansible and the microservice on Github repository + access to Jenkins for the verification.