Test for DevOps

Test task for DevOps engineer

Hello and welcome to the Soramitsu DevOps take home challenge! We value your time and don't expect you to spend anymore than 2-3 hours on this task. The challenge is a chance to demonstrate basic competency in cloud provisioning and automation using docker, terraform and ansible. This isn't just simply a pass/fail on meeting the requirements though - there will be some expectation of following **best practices** with whatever method you use and making it easy for others to iterate on your work. It's possible to spend much longer than 3h on this task so think carefully about how you want to solve the problem.

If you pass this stage further technical interview questions may expand on this scenario.

The Scenario

We have several developers teams where each member has a different OS, compiler/interpreter version, dependencies installed on the local computer. To uniform all this we use Docker containers.

Your job is to automate the provisioning of instances with the application.

Task

- Write an application.
  - Use whatever programing language you're familiar with. Write a simple web server with REST interface which returns "Hello world! Time is: TIME_IN_MOSCOW"
  - Build Docker image for your application (create Dockerfile, use **best practices**).
- Write IaC to provision a VM with your preferred cloud vendor of choice.
  - Use whatever OS/image you're familiar with - Debian or Redhat derivative is probably the safest option.
  - Use terraform - infrastructure-as-code tool.
  - **Warning** - We're expecting you to test using your own account you have with a preferred cloud vendor, this will incur a small charge in the order of cents/pennies for the duration of the test- don't forget to deprovision these services after you've completed the challenge!
- Automate the bootstrapping of the application you wrote, on this VM.
  - Use [ansible](#) to accomplish this task (use **best practices**).
  - Usage of a self-signed certificate is fine
  - If you don't have a domain you can add records to /etc/hosts for testing
  - After you finish bootstrapping, you should be able to open https://app.yourdomain.com in your browser and see the message "Hello world! Time is: TIME_IN_MOSCOW"

Submission

- Please provide a zip file containing whatever scripts/files you used to meet the deliverables and a README.md with any instructions or additional information.