

DevOps Engineer

Thank you for taking the time to complete the exercise below. For the next step would be a technical test. Please do not spend more than 4 days for this exercise. In case you have any problems/doubts please do get in touch by phone or email.

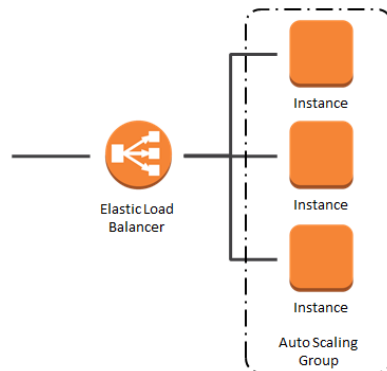
Prerequisites:

- An aws account
- A GIT repository that you can store your solution and share the link with us
- App to deploy
 - <https://tomcat.apache.org/tomcat-6.0-doc/appdev/sample/>

Problem Statement:

Write the terraform scripts that is able to provision an environment similar to the diagram below. Take note that you are expected to leverage on your own experience to design a suitable solution and be able to justify your design decisions when asked.

Design a solution as shown below, where you have an auto-scalable web application, which scales up and down based on the **website traffic**.



Things to do:

- Create an **ansible role** to bootstrap the instance, for example installation of tomcat, java etc.
- Use the above created ansible role with **packer** to automate the machine image
- Instances to be deployed as **autoscaling group** using terraform should be **spot instances**

At the end of this challenge, push the terraform scripts to a public git repository for us to review before we ask you for the demo

You are free to assume type of load balancer, instance class, port to run the application, health check etc. There is absolutely no need to have jenkins in order to build and deploy the application.