

MyHeritage technical exam

DevOps R&D Team

Intro:

- You may use Google or any other resource to search for relevant information.
- Please do not use any existing complete solutions, or any other person to complete the exam.
- Try and provide any relevant information on how you solved this, why you selected a tool/service, design decisions, etc.
- Please submit whatever you have, even if you're not able to complete all of the requirements. We're more interested with how you handle the task, than with the end result.

The suggested tool for this task is **docker/docker-compose** as the containerization solution, but you may use alternative container orchestration or VM management solution if you prefer.

Goal

The goal of this task is to create a virtual environment using the tools of your choice, containing the following components:

1. A load balancer (e.g. HAProxy, Nginx, Traefik, etc.)
 2. A webserver (e.g. Apache (httpd))
- The Load balancer and web server must reside on separate, dedicated containers/VMs.
 - The load balancer should direct all requests to port 80 to the web server.
 - The provisioning of the entire system should be done using automated methods (Bash script, Puppet, Ansible, docker, docker-compose, vagrant, etc)
 - The load balancer should be as dynamic and automatic as possible

Success criteria

1. At least 3 containers / VMs are used (multiple web servers).
2. Load balancer / web server(s) reside on separate, dedicated containers / VMs.
3. All requests to the load balancer on port 80 are sent to the web server(s)
4. The web server should display a custom HTML file, by default, with the phrase "Geni, Vidi, Vici" embedded in the page.
5. The setup should be scalable and with an easy way to add/remove additional web servers