



Development experience assignment

Introduction

The purpose of this assignment is to assess coding skills along with automation and infrastructure knowledge.

Description

Develop an orchestrator, which automates the following procedure:

1. Allocate and start three VMs in the cloud.
Use AWS or Azure cloud. Register a free trial account for the solution.
Use an operating system of your choice.
2. Distribute a payload script on each VM for executing the steps 3 – 7.
The scripts should start automatically on boot time.
3. Create 2 directories – **source** and **destination**.
4. **Create** 1,000 files in **source**. Measure the time of this operation.
5. **Copy** all files from **source** to the **destination** directory. Measure the time of this operation too.
6. **Delete** all the files after copying them. Take the third measure of that last operation.
7. Gather all the measurements in one place and transfer them to the host machine (the orchestrator script)
8. Back on the host machine – the orchestrator waits for all the results from all three VMs and then shuts them down.
9. Finally, the script should print statistics based on the results received. The output format should be controllable through an CLI option parameter to be either a well-formed human readable text or a raw JSON output suitable for machine-to-machine communication.

Additional requirements

All the scripts should be well documented, be able to execute out of the box and must cover most of the failure cases – infrastructure, network and others.