

# Symantec DevOps Engineer Assignment

## Assignment 1: Design task

Symantec's solution depends on multiple services such as AWS, ElasticSearch and "Let's Encrypt". Due to obvious reasons, access to the above-mentioned services, by Symantec's internal services, requires authentication.

### Goal

1. Suggest a design for storing and accessing secrets securely by internal services or authorized developers
2. Define all components involved and how they would interact with one another
3. Present the considered alternatives and explain the strengths/weaknesses of the selected solution

### Details

Task results should be summarized in a document / presentation.

## Assignment 2: Development task

### Goal

1. Develop a command-line Unix tool that will be run on Linux machines. This tool parses a debug log in JSON format and provides some statistics about the log records
2. The tool can be developed in any programming language
3. The source code, binary and running instructions should be provided for a discussion
4. The implementer should assume that this is a production-grade development project
5. No assumptions regarding log size should be taken

### Details

1. The tool should parse a debug log in a JSON format that is specified below. Each log record represents an action
2. The output of the tool should be statistical information, including the following data:
  - Total number of logs records
  - Number of logs per each action (actions may be any file operation)
  - The percentage of actions whose result is "success"

```
{
  "level": "DEBUG",
  "logger": "logger0",
  "thread": "main0",
  "timestamp": "2017-12-05T20:43:33.511+0000",
  "hostname": "host0",
  "user": "root0",
  "action": "Edit File",
  "filename": "myfile.txt",
  "filepath": "/opt/special_system0/data",
  "result": "success",
  "appId": "special_system0"
}
```