

# Systems and Cloud Admin Technical Evaluation

## Assumptions

- You have full/administrator access to an AWS account where you can perform the tasks below.
- We anticipate that the majority of activity in the task should utilise the AWS free-tier or otherwise be low cost (for the duration of the exercise).
- Any software tools required should be open source or freely available (the use of any other tools is at your discretion)
- You have around 2-3 hours available to focus on the task.
- You should assume that you are delivering this solution into a production account.

## Task

You have been provided with a zip package containing a basic javascript function (node.js) called `handler.js` and **Serverless Framework** configuration that will enable deployment as an API endpoint on AWS.

1. Deploy this function into your AWS account, exposing the function as a public endpoint.
  - a. List the resources you have just deployed.
2. A critical SLI for this API is that the error rate should be under 10 per 5 minutes, ensure that you are notified if this rate is exceeded.
3. Test the API and the notification you've configured.
4. Deploy the function in a second region.
5. Build a simple dashboard that gives you the ability to understand the operational health of the API in both regions at a glance (you can use AWS native tools, or a tool of your choice). Include a screenshot of your completed dashboard.
6. Assume there's an Operations team who need ReadOnly access to the AWS account, provide suitable access and at least one user account.
7. The developer of the `handler.js` function wants to extend the function to read a secret key value. Store this secret key and provide the Developer with the parameters they require to access it.
8. We have a notification tool that processes JSON data related to our alerts, the WebHook URL is <https://webhook.site/86c4f822-d880-4226-b922-4a5da849a543> configure Alert notifications for this API to be submitted to this system.
9. These exercises are generally achievable via AWS Console, CLI or Infrastructure-as-Code. Whichever method you chose, your process should be reproducible by our team, so be sure to document each step.

## Evaluation

We will be reviewing how you approach this task as a Cloud Administrator, how you make use of the tools you choose, how you decide your solution is complete.

We will re-visit your solution during the interview process, so come prepared to discuss further improvements and to discuss your solution.