

This is the Sentia AWS assessment. Please review the following:

Introduction:

We are not just looking for a solution, but also at how you got there. Please elaborate in a readme file together with the assessment in your GitHub project.

The focus will be on why you have chosen a certain way to approach this assessment.

We understand that you might need to make some assumptions during this assessment, please include the assumptions you make in the final deliverable.

Do not be afraid to use your own creativity or to show us more than we have requested.

Key aspects we would like to see are:

- Reusability
- Flexibility
- Robustness

The assessment:

Create a deployment script, using ruby, to generate a json template that contains:

A VPC with three subnets. The VPC should have an IP-range of /16, the subnets /20

A security group for the VPC.

An S3 bucket with a randomly generated name and an ACL that denies access to anyone except for the owner.

Inside the VPC should be an EC2-instance with these specifications:

The region should be eu-west-1

The ami should be the latest Amazon Linux AMI available

The instance type should be of the smallest general purpose type

The security group should only allow SSH access from 35.158.238.101/32

The GitHub repository should include a README.md file detailing the choices and assumptions you have made.

Running `ruby assessment.rb` should produce a json output that represents a proper cloudformation template and follows the requirements stated above.

Deliverable:

Provide us with a public GitHub repository containing the assessment code.

Interesting readups:

GIT:

<https://git-scm.com/book/en/v2/Getting-Started-Git-Basics>

<http://readwrite.com/2013/09/30/understanding-github-a-journey-for-beginners-part-1>

AWS:

<https://docs.aws.amazon.com/AWSCloudFormation/latest/UserGuide/aws-template-resource-type-ref.html>

Ruby:

<https://rubymonk.com/learning/books/1-ruby-primer/chapters/6-objects/lessons/35-introduction-to-objects>

<http://railsforzombies.org/levels/1>

<https://www.railstutorial.org/book>

<https://www.codecademy.com/learn/ruby>

<http://learnrubythehardway.org/book/>

JSON:

<http://beginnersbook.com/2015/04/json-tutorial/>

<http://www.copterlabs.com/json-what-it-is-how-it-works-how-to-use-it/>

Preferred tools:

Bundler: for gem management

<http://bundler.io>

Rspec: for testing your code -

<http://rspec.info>

<https://github.com/rspec/rspec-core>

Rubocop: Code analyzer based on the community.

<https://github.com/bbatsov/rubocop>

Good luck with the assessment!