**Technical Challenge**

**Challenge #1**

A 3-tier environment is a common setup. Use a tool of your choosing/familiarity create these resources. Please remember we will not be judged on the outcome but more focusing on the approach, style and reproducibility.

**Answer:** In 3-tier Architecture below will be the layers which we can follow

Logic ---- (webserver – where we can write the logic in any programming language)

Client ---- (Application- It deals with the UI)

Data ---- (Database – any kind of data to store

**Challenge #2**

We need to write code that will query the meta data of an instance within AWS and provide a json formatted output. The choice of language and implementation is up to you.

**Answer:** We can use below url to retrieve the meta-data

<http://169.254.169.254/latest/meta-data>.

Or we can use the EC2 instance Metadata Query Tool and first download the tool and run the below queries onto EC2.

wget <http://s3.amazonaws.com/ec2metadata/ec2-metadata>

wget http://s3.amazonaws.com/ec2metadata/ec2-metadata

ls -l ec2-metadata

chmod u+x ec2-metadata

ec2-metadata --help

**Challenge #3**

We have a nested object, we would like a function that you pass in the object and a key and get back the value. How this is implemented is up to you.

Example Inputs

object = {“a”:{“b”:{“c”:”d”}}}

key = a/b/c

object = {“x”:{“y”:{“z”:”a”}}}

key = x/y/z

value = a

Hints:

*We would like to see some tests. A quick read to help you along the way*

Answer: for (var prop in obj ) {

console.log(prop)

if ( prop = = = key ) {

Set. push(prop);

}

}