

Assignment 1

1. **Read the following article <http://martinfowler.com/articles/microservices.html> and explain what "Microservices Architecture" means:**

It's basically an architecture that focuses on creating an application that is composed of multiple smaller services, each of them running independently. This allows us to deploy them individually and also offers us a sense of modularity, as each of these components can be given maintenance and grow separately; they can even be written in different languages. Microservices can adapt easier to different situations, you don't have to replicate all your work in many computers, you can simply replicate the same service if it requires to take more load. Due to its particular design, this architecture turns out to be formed of components that communicate with each other through simple interfaces, or pipes, as the article mentions, "Smart endpoints and dumb pipes". Having a "Decentralized Governance" allows you to pick what technology to use for each component, giving us a sense of freedom when designing our system.

2. **Create a bash file to setup a complete environment for this class:**

Check Repository "Assignment 1."

3. **Create a grunt task to deploy your website to your own bucket in S3:**

Check Repository "Assignment 1."

4. **Explain how routes work in angular and a code example:**

In an angular project you have a main template that is loaded once and then reused continuously. We can achieve this with routing because it allows us to connect the controllers and the templates. In angular, we use a `$routeProvider` service that is in charge of matching the URL to the templates and controllers.

Example:

Example in repository, under the name "routing.js"

In this example, we can see how the `$routeProvider` service matches the URL's, like `'/about'` to the template `about.html` and the controller `AboutCtrl`, and so on. We can also see that if no URL is matched, it will redirect us to the index template in the `.otherwise` section.

5. **Explain how you can have more than one access key in your computer and how to use each one. Provide code or configuration examples:**

In the AWS CLI you can work with multiple access keys by using profiles. As you add more keys to your credentials file, it is a good practice to name them to be able to tell the

difference between profiles and then write in a config file within the .aws directory, we can add the region that each profile belongs to.

Example:

Examples in repository, under the names of “credentialsExample” and “configExample”

6. Explain what are you going to do different this semester based on last semester experience:

Last semester I didn't know how to manage my time proficiently, and I had many things interfere with my life. I hope to organize my time and learn how to separate my work, school, and personal life. I find it difficult to utilize my time wisely because it consist of things that are all abundantly important to me. As time goes on I hope to build enough experience to organize my time efficiently and give everything the importance it deserves.