**Node Module to Retrieve Multiple Parameters from AWS Parameter Store**

I created a node module to retrieve multiple parameters as the parameterName-parameterValue Json object from [AWS Parameter Store](https://docs.aws.amazon.com/systems-manager/latest/userguide/systems-manager-parameter-store.html). It is called [aws-ssm-parameters](https://www.npmjs.com/package/@mdhnpm/aws-ssm-parameters) and is available from [Npm](https://www.npmjs.com/). The module is namespaced. So, you need to add the namespace @mdh when you install it.

<pre>

npm i @mdhnpm/aws-ssm-parameters

</pre>

The main motivation for creating this module is to use it in lambda functions where I add parameter names in environment variables and use aws-sdk to retrieve them. I find this pattern cleaner than just adding real database passwords or API credentials to environment variables. It creates an extra layer of security and rotating credentials do not require re-deployment of lambda functions (or worse editing credentials directly in the lambda console). I just didn’t want to repeat the same logic again and again in all the lambda functions.

The great thing about npm is that the module does not need to be big. It can be namespaced and your private module feels a little more personal although it’s accessible to the public. It also allows you to create a private repo for an organisation. This is a great way to share node modules within the enterprise.

My module is super simple. It is based on [aws-sdk](https://aws.amazon.com/sdk-for-node-js/). It has a method getParameters() which retrieves all the parameters at once. What I did was creating a thin wrapper to make it usable with one line.

Here is the source code.

<script src="https://gist.github.com/mydatahack/19a664dc9738c48858af384b92ba8471.js"></script>

The usage is simple. My recommendation is to use ES7 async/await pattern. It makes code nicer.

<script src="https://gist.github.com/mydatahack/986d2b28ef28064fbc00923cf9d13cae.js"></script>

There are more …

Now the sdk has a method to retrieve a single parameter getParameter().

<script src="https://gist.github.com/mydatahack/243271461cdc06c6833060576a1fee90.js"></script>

Then, we can loop through them and use reduce() function to create home-made getParameters function. Isn’t it fun?

<script src="https://gist.github.com/mydatahack/f9ca46f2ab4a724d6f5ed4e1fdb8e8fd.js"></script>

You can check the source code along with unit tests [here](https://github.com/mydatahack/aws-ssm-parameters).