**aws-metadata-json**

**What it does**

* Query the metadata of an ec2 instance within AWS and provide a json formatted output.
* Retrieve the value of a particular data key.

**How to install**

* [Create an EC2 Linux instance on AWS](https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/EC2_GetStarted.html)
* [SSH into the instance](https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/AccessingInstancesLinux.html)
* Install Python 3 and git on your instance
  + sudo yum install python3 git
* Clone this repository
  + git clone https://github.com/bluprince13/aws-metadata-json
* Install pipenv
  + sudo pip3 install pipenv
* Open the repository on your instance
  + cd aws-metadata-json
* Install project dependancies
  + pipenv install

**How to run**

* Open the src folder
  + cd aws-metadata-json/src
* Run whichever script you need:
  + python3 get\_metadata.py
  + python3 get\_key.py

**How it works**

* It makes use of the <http://169.254.169.254/latest/meta-data> link-local address. Instance metatada is provided at this link, but only when you visit it from a running instance.
* A few simple Python scripts are used to extract the required information using the above API.
* See [AWS user guide](https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ec2-instance-metadata.html) for more info on the instance metadata API.