Condo Daily Report 8-23-21

Monday

* Arrived at bc
* Had a meeting
* Worked on python script
  + Continued working on the python script that takes .gz files and decompresses them
  + Created the read\_gz method
    - This method takes a path as a parameter
    - It takes the target\_files list from a list passed from the find\_gz function
      * It uses these lists and combines the files with the path parameter
      * Utilize the gzip library to unzip the .gz files
      * Use the io library to decode the now unzipped files
    - Parsed through the now decoded files
      * Since they are in a txt format, you can read them like a string
        + I did so then split the string on the “\n” characters
        + This creates a list that separates each individual log
      * Then created a for statement that goes through and splits each line on a space to separate the attributes
      * This creates a matrix of lines and attributes
    - Then created a function that strips the first attribute into date and time
    - Passed all the attributes into a master list to pass to the next function
  + Created the file\_list\_to\_txt method which is passed the formatted list from the previous method as a parameter
    - This method takes the designated path and creates a new file name that will be used to create the new txt file
    - Creates a new file to the specific path with the given filename
    - Writes each formatted matrix to the files in a text format separated by spaces and new logs are separated by “\n”
  + Created another method called gather\_made\_text\_files
    - This method gets the names of all the newly formatted text files in a specified directory
  + Made another method called gzip\_compress\_text\_files
    - It is passed the list of the files from the gather\_made\_text\_files method, and a path to a designated directory
    - This method takes the text files and reads them
      * The strings are then passed to a variable that is compressed using the gzip library
      * They are then zipped up and given the .gz extension
      * They are written to the designated path that is specified in the parameter
  + Created a test method to make sure that the .gz files would be unzipped and decoded properly in the database
* Looked back into firehose
  + This will be a useful tool that will help real time streaming of the flow logs
    - Will most likely be able to apply part of this lambda function to it to format data in real time
  + We need to check out pricing
    - If we set up this feature we need to apply a billing alert in cloudwatch
* Took a snapshot of the tableau server instance
  + This was necessary for the ubuntu server update proceeding tonight