Setup

Node Js, os-utilities, npm, and storage device

Starting Up

All code needed for running the program is in SendData.js. All the metrics are listed there. You can also use os-utilities to get more metrics like percentage, megabytes, used percentage. Currently there is no way to put a personal bearer token from startup. You have to manually place it at the top where it has the auth-bearer token. There are two functions: the GetMainDirectory and CreateMain. These two functions help either make or get the Server Metrics directory id. The MainDirectoryGet is inside the CreateMainDirectory. The CreateMainDirectory first tries to create the main directory and then it checks if it receives the duplicate directory error. If it does receive the error then it runs the MainDirectoryGet to get the id else it creates the directory and saves the id. Afterwards it uses the ip address that we got to create a subdirectory. It also checks if a subdirectory with the same IP exists and if it does then it gets the ID. Once the subdirectory is set up we set up streams and check if the streams exist. If they do, we get the stream id. Once we have the stream id, we send the data for each metric to its corresponding metric stream using the send data function. This function is embedded within the Getmetrics function. The getmetrics function is then set on timeout so setup of directories can happen first and it is inside a setInterval loop. When sending data we use a timestamp.

Improvements

I would recommend finding a better solution to Inodes. We couldn't get ours to work that well. Also finding a better solution for the wait times, we use timeout, but that isn't that efficient. Better metric information. Using os-utilities you can get more information about specific things such as total memory used, free memory, and used memory.