Pranav Sarma & Shyam Bhanushali
RIT/ISTE 730/FOUNDATIONS OF IoT

Course project report

Our project involves using the AWS IoT Device Defender service with the Omega 2 device to monitor & identify any unusual behaviour of a compromised system. Here we will be using a temperature sensor, light sensor and monitor the temperature data of Rochester using APIs in 2 different ways.

The first one will involve the use of ML detect reference model in order to monitor & learn the expected behaviour of the device and hence create security profiles, based on the historical data collected from the device over a span of about 2 weeks. The other one will involve the use of custom metrics, where we will be defining the necessary metrics & security profiles which will be used to monitor the behaviour of the device, also over a span of about 2 weeks.

Once both the results of the monitored methods are done, we will compare both the results and