

IOT devices daily in their life. but there is no security system that protect them such as firewall or IPS. Since IOT devices microcomputers is not possible to do either of them.

Unauthorized party can gain access to your smart devices and collect your data or do harmful thing such as gain control over your stove, that can cost your house to burn.

Also IOT devices are facing big trouble against in privacy as well since we use those devices to help our day to day life someone else can use those information to spy on us such as Smart fridge they will know what items you buy and also what items you running on low. Or they can gain access to your stove they can burn your house as the worst case.

But since IOT devices are small and have mini processing power that not able to handle a firewall or IPS they are open to attacks. For that reason, I introduce cloud base code checker.

- **Project description**

Describe what you are planning to develop

My solution is to build a cloud base code analyzer/checker. Since IOT devices unable to protect them self because not having any security system build into them cloud base security system will be able protect users' privacy. What this will do is your IOT device will be connected to the code analyzer through cloud and when given a time gap the code analyzer will perform a check on your IOT device source code. It do that by comparing the code that given to it by the manufacture which is the original code that should be and then it will compare the code with your IOT device. If it found a problem, it will update the device to it original code. Original code or an update of a current code need to be uploaded by the manufacturer the cloud then it will connected to the IOT devices and start to restore the source code similar to what is have given by the manufacturer