

Blue Team

Requirements

Network Requirements - Sensors, Security units, Aggregators and Forwarder.

- The security units, sensors, and aggregators each have a single interface connected to the internal network of the farm
- The forwarder will have two network interfaces, one facing the internal network, with a fixed I.P, the second interface will face the public network and can have any public I.P address

Security unit

- The security unit must be able to access a GitHub repository during the installation process.
- The installation must occur on a raspberry Pi machine with the appropriate components wired to it.

Aggregator

- The Aggregator is designed to work on an Ubuntu 20.04 machine.
- The Aggregator must have access to an internet connection in order to install the mosquito and python3 packages.
- The Aggregator must be able to access the Github repository.

Processor and Storage

- The processor and storage have one shared interface, placed at the processor, with an assigned IPv4 address for networking real-time data to the GUI, using a TCP stream (port 22)
- The processor IP will have a private IP of 192.168.1.1, with any public IP address
- Receive API calls, from the GUI, requesting for stored data with SQL queries
- Should be able to access the Github repo during setup

GUI

- The GUI unit should have access to the public Github repository.
- Have the localhost's port 5000 free to use. It's content will be used once running the flask environment.