An Open Source Project for secure and robust containerized application management for constrained devices.
Introducing RCOS team

What is Open-Horizon?

Project Proposal

Schedule

Contributions

Conclusions
Introducing RCOS team

Zhongyu Zhang

Zhe Yan
What is Open-Horizon?

Management Hub

- Edge Device
- Edge Cluster/Gateway
- Network Edge

Automatically managing edges
Open-Horizon currently only supported on Ubuntu 18.x, Ubuntu 20.x, and macOS
Schedule

| 2 weeks | 9 weeks | 1 week |

**Scheduling**
- Decide project proposal

**Enabling OH on Windows**
- Learn how Open-Horizon works
- Set up the environment
- Fix bugs in script program

**Summary**
- Document the steps to enable Open-Horizon to run on Windows for users

We are about here
Contributions

root@LAPTOP-0Q11B2L5:/mnt/d/openHorizon/devops/mgmt-hub# ./deploy-mgmt-hub.sh
------- Checking input and initializing...
Management hub services will listen on http://127.0.0.1
Updating apt-get package index...
Installing prerequisites, this could take a minute...
------- Downloading template files...
(60) SSL certificate problem: self signed certificate
More details here: https://curl.haxx.se/docs/sslcerts.html

curl failed to verify the legitimacy of the server and therefore could not establish a secure connection to it. To learn more about this situation and how to fix it, please visit the web page mentioned above., stdout: version: "3"

# Listing the volumes here makes them persistent across container restarts
volumes:
 postgresvol:
 mongovol:
 agbotmsgkeyvol:
 ocsdb:

Repositories
link:

https://github.com/Salad5413/RCOS-2021-Open-Horizon
Conclusions

- Continue to debug the .sh file
- Plans for the next semester
  - Write instructions on how to make it run on Windows
  - Continue to solve the issues of Open-Horizon
Questions?