Securing the IoT Supply Chain with DevSecOps

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Impactful DSO Approaches/Technologies that IoT Manufacturers Can Use

Not always possible to have zero CUEs

Be mindful of 3rd party code libraries

Constantly scan to keep threat level acceptable

Scans that detect secret leakage via commits

Truffle Hog can help

Secure the build process - create a provenance document

Who started the pipeline

Admission controller

Admit one

Develop with security in mind

Secure boot

Monitor traffic on the network to ensure there are no strange network routers

Trusted execution environment

Guaranteed confidentiality, integrity, for code + data

Encryption & access control for hardware devices, network segmentation/app brokers, monitor network traffic

Trusted platform module can trigger self-destruct if someone tampers

Boom!