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OT/IT Gateways



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Agenda

- » IT/OT Integration
- » Thinking about data flows
- » Building and testing a bastion



IT/OT Integration

- » Demand to integrate IT and OT systems
- » OT systems are getting more ambitious
- » Innovation calls for more automated supply chain management



Thinking about data flows

- » The CIA Triad
- » Examine each flow
- » Determine CIA impact for each data flow
- » Implement controls to manage risk

Building a bastion

» Simplified example

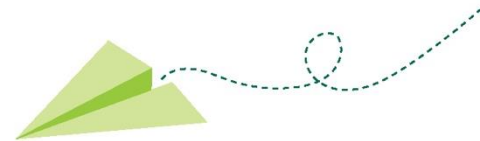
- External network 10.1.1.0/24
- Internal network 10.2.1.0/24

» Eclipse Mosquitto MQTT Broker

- `/etc/mosquitto/mosquitto.conf`

» Dante SOCKS server

- `/etc/sockd.conf`



Questions



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References

- » Dante – An open source SOCKS server
 - <https://www.inet.no/dante/>
 - OpenBSD sockd(8), and sockd.conf(5) manual pages from the dante package
- » Eclipse Mosquitto - An open source MQTT broker
 - <https://mosquitto.org/>
 - OpenBSD mosquitto(8), mosquitto.conf(5), mosquitto_pub(1), mosquitto_sub(1) from the mosquito package