Manageable, Scaled Deployments with VOLTTRON™

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Intellimation
VOLTTRON is great.
Until it isn’t
What breaks VOLTTRON?
Then what?
How we started:
Standard VOLTTRON deployment
Core infrastructure in Cloud
Where we are now:
Why?
Visibility
Metrology
Data
Insight
How?
Grafana & Prometheus:
Logstash and Kibana (ELK Stack)
FlameGraphs

Production Crate Historian Flamegraph

More info on FlameGraphs:

https://github.com/brendangregg/FlameGraph

How I did it on a running Python process:

https://github.com/uber/pyflame
Now what?
What’s next:

- Distributed tracing
- At will FlameGraph retrieval from across the infrastructure
- Better alert management (flapjack.io?)
- Centralized, simple system for initial platform install
- Regularly scheduled site network security audits and reporting
- More transfer of industry (IT Industry) best practices to VOLTTRON ecosystem
Thank you!
Questions?