My Journey
A little history from a CIO perspective...
We now have a growing problem, and while it looks familiar, the solution is going to require intensive rethinking of the way we design and implement apps and infrastructure.
Tony’s Rule(s)

For every $1.00 spent on apps and infrastructure, annual operating costs and maintenance expense will be in the range of 20-30%.

Further, because the aggregated price/performance of technology doubles roughly every five years, systems and infrastructure that are more than 10 years old, have a net negative value compared to the upgrade or replacement alternative.

Lesson Learned: Get your organization on a continuous upgrade cycle – “sweating the asset” is unlikely to pay off compared to other alternatives.
The Cybersecurity Challenge
Tony’s Rule(s)

Trying to design, develop, implement and support modern security concepts and practices to protect certain legacy systems is just like thinking that with enough bubble wrap and duct tape we can convert a ‘65 Ford Mustang into a vehicle as comfortable and safe as a contemporary vehicle. Effort and cost aside, it won’t be pretty!

Lesson learned: Security by design wins out over security slapped on afterwards.
IoT is really the Internet of Everything....

For Large Enterprise and Government

More devices ➔ More IP addresses
More users ➔ More transparency/accountability
More traffic ➔ More manageability
Better performance
And the foundation is starting to look better!
Multiple Components to the Future Roadmap for Large Enterprise (including Government)

- Shared Microservices and Platforms
- Hybrid Cloud
- Legacy System API’s
- IPV6
- Network micro segmentation
- Cloud Services

- New IT governance paradigm needed
- Remphasis on architecture & data
- Both DevOps and traditional model
- Business and tech skill set paramount
- TBM as a standard practice
- CXO level engagement
The Federal Government can lead the way

Modernization of Government Act

Work done so far

- Creates new funding mechanism
- Encourages shared platforms
- Favors modern architecture/tools

Work Needed

- OMB/Fed CIO support
- Comprehensive across all initiatives
- Fix FAR language and train people
Thank You!

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