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Running Kubernetes in the Federal Government

John Osborne
@OpenShiftFed



FISMA: Making life harder since 2002



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TL;DR - It's a law that says you need a plan to secure your data (among other things)

- All USG is legally obligated to comply
- Risk management framework included
 - Technical implementation
 - Processes
 - Security plan
 - Risk assessments
- Systems gets a go (ATO) or no-go
- This is called the ATO process and it's very expensive and time consuming!



Spent over 1 Billion in IT in FY19

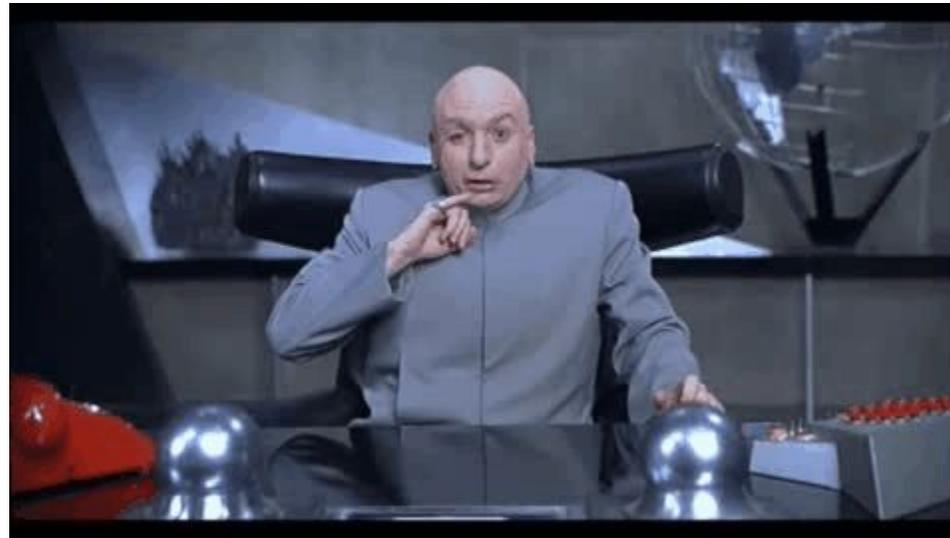


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*This doesn't include the 17 intelligence agencies with classified budgets

Cost isn't the only challenge



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Would you update your system if it just took you
18 months and thousands of hours to get
accredited?

Compliance As Code



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- 18F is a startup with the federal government
- One of their innovations is OpenControl
 - Part of a [compliance as code](#) effort
 - Standard format to generate paperwork
 - Goal is to minimize cost of the ATO process by making things repeatable
- Red Hat wants the ATO process for systems with Kubernetes to be automated and repeatable

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Red Hat ATO Pathways Project



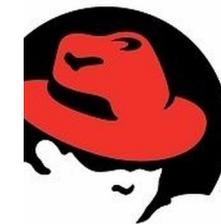
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- You choose the accreditation you need
- We generate paperwork and automated compliance with Ansible
- Kubernetes is just one of the projects



redhat®



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Special thanks to the ATO Pathways Lead
Shawn Wells <http://bit.ly/k8sato>

