

Government IT Digital Transformation and the Cloud

John Walker, Chief Technical Architect, RSI Kunal Tanwar, Director SLG Team, Microsoft August 12, 2019



Agenda

- Digital Transformation
- Driving Forces
- Enterprise Architecture Model
- Evolution... not Revolution







Government Digital Transformation and the Cloud

- Digital Technology and your Agency's Mission
- Government transition
- Security, scale and elasticity
- New projects, greater demand, increased velocity
- Where we work and how we work has changed







Driving Forces

What are the primary focus areas of digital within your organization? Top 5

- 69% Process Automation and Transformation
- 64% [Citizen] User Experiences
- 51% IT Infrastructure and Cloud
- 50% Enterprise Platforms
- 49% Growth, segmentation, and profitability

Source: 2018 Deloitte Global CIO Survey





Tomorrow's Needs

- Modern Information Systems
- Improved User Experience (UI & UX)
- Enhanced Security Capabilities
- Powerful Data Analytics Platforms
- Practical Business Continuity and Disaster Recovery
- Improved or Eliminated Hardware Refresh Cycles
- Automation Everywhere
- Scalability on Demand
- Security Standards and Regulations Compliance





Cloud by the Books

- Essential Characteristics
 - On-demand self-service
 - Broad network access
 - Resource pooling
 - Rapid elasticity
 - Measured service



- Service Models
 - Infrastructure as a Service (laaS)
 - Platform as a Service (PaaS)
 - Software as a Service (SaaS)
- Deployment Models
 - Private Cloud
 - Community Cloud
 - Public Cloud
 - Hybrid Cloud



Source: NIST 800-145





Enterprise Architecture Cloud Deployment Models

- Public Cloud Move it all
- Private Cloud Build your own cloud
- Community Cloud Share the build
- Hybrid Cloud Move some, keep some







Public Cloud

- Choose your vendor and datacenter type
 - Azure, AWS, Google, etc.
- Move everything
- Security and Network Considerations First
- New workloads
- Legacy workloads transition
- Sunset and transition to the new model
- Note: Use a Government Datacenter







Private Cloud

- Choose your cloud stack
 - OpenStack, Azure Stack, OpenShift, Anthos, OutPost
- Build out Hardware Infrastructure
- Build out Security and Operations Center
- Verify and Certify
- Transition Workloads
- Operational Cloud Provider Concerns







Hybrid Cloud

- Choose your cloud provider
 - Azure, AWS, Google, etc.
- Strategically choose workloads with destination in mind
- Security and Network first
- Spectrum of workload profiles from on-prem to completely SaaS
- Evolve and Enable







The Path

- Choosing to Transform Digitally Savvy Leader
- Platform
- Timeline
- Workloads
- New Projects
- Strategic Projects
- Innovation and Transformation
- Enablement







Experience







Digital Transformation

- Ubiquitous Computing
- Next Generation Information System
- Artificial Intelligence and Machine Learning
- Analytics and Decision Making
- New Projects, New Speed
- Security at Scale
- Innovation











Imagine the Future

- Enable Experimentation and Innovation
- Rapid Project Prototyping
- Eliminate Slow Procurement Cycles and Refreshes of Hardware
- Citizen Engagement Programs
- Unified Taxpayer Experiences
- Learn More and Make Data-Driven Decisions
- Radically Alter the Impact of Information Systems





Questions

