Cloud Computing
Are the Benefits Real?

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Agenda

Welcome
The New World of Work
The Cloud Business Model
A Cloud You Can Trust
Cloud Capabilities
Conclusion
New generations. New expectations.

+50% of workforce will be millennials by 2020*

*WSJ, May 2017
Flexibility to work from anywhere

+42% of the global workforce will be mobile by 2022*

*Strategy Analytics, Oct 2016
From routine tasks to creative thinking

72% of workers believe creativity fuels success*

*Whitepaper: The Future of Work is Creative Work, 2017
Cyberthreats are at an all-time high

74% of businesses expect to be hacked in the next year

*2016 State of Cybersecurity Study, ISACA and RSA Conference
• The Utility Model
• How Utilities Add Value
• Similarities with “Cloud”
• Trust and Reliability
• Productivity tools  
• Security and Identity  
• Datacenter  
• Business Application
• Types of Cloud
  • PAAS (Platform As A Service)
  • IAAS (Infrastructure As A Service)
  • SAAS (Software As A Service)

• Cloud Scope
  • Public
  • Private
  • Hybrid
Challenges for US Government organizations

- Protecting individuals and data is of critical importance
- Leaders require greater insight, accountability, and compliance
- Leaders and employees want better coordination and connection between agencies and departments
- IT needs to modernize legacy IT systems (US: Modernizing Government Technology Act of 2017)
- Section 508 Compliance

Public outcomes

- More secure citizen and government data
- Better insights drive new citizen services and economic growth
- Reduced costs and greater efficiency
- Fully engaged constituents and employees with accessible content
• Security
• Flexibility
• Enables Workers
• Provides Citizen Services
• Continuity of Operations
• Mobility
• Cost Savings
• Reliability
Government Clients that Trust Cloud
Office 365 ProPlus
Familiar and full Office user experience
Fast deployment and broad management controls
Roaming settings
Office on Multiple Devices

Skype for Business
Online meeting with desktop sharing
IM & Presence across firewalls
GAL search with contact card
Skype for Business Federation

Microsoft SharePoint Online
Access documents offline
Real-time co-authoring
1 TB Personal Storage
Share documents securely

Exchange Online
Free/busy coexistence
Integrated personal archiving
Retention policies and legal hold
50Gb mailbox with voicemail & unified messaging

Azure AD
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<th>Section</th>
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| Security         | **Best-in-class security with over a decade of experience building Enterprise software & online services**  
• Physical and data security with access control, encryption and strong authentication  
• Security best practices like penetration testing, defense-in-depth approach to protect against cyber-threats  
• Unique customer controls with Rights Management Services to empower customers to protect information |
| Compliance       | **Commitment to industry standards and organizational compliance**  
• Enable customers to meet global compliance standards in ISO 27001, IRS 1075, HIPAA, FEDRAMP  
• Contractually commit to privacy, security and handling of customer data through Data Processing Agreements  
• Admin Controls like Data Loss Prevention, Legal Hold, E-Discovery to enable organizational compliance |
| Privacy          | **Privacy by design with a commitment to use customers’ information only to deliver services**  
• No mining of data for advertising  
• Transparency with the location of customer data, who has access and under what circumstances, ISO/IEC 27018  
• Privacy controls to regulate sharing of content and communications with external parties |
Security and Identity
61% of workers mix personal and work tasks in their devices*

>80% of employees admit to using non-approved software-as-a-service (SaaS) applications in their jobs**

>75% percent of network intrusions exploited weak or stolen credentials ***

** Verizon 2013 data breach investigation report
*** Verizon 2013 data breach investigation report
Easily manage identities across on-premises and cloud. Single sign-on & self-service for any application.

Manage and protect corporate apps and data on almost any device with MDM & MAM.

Encryption, identity, and authorization to secure corporate files and email across phones, tablets, and PCs.

Identify suspicious activities and advanced threats in near real time, with simple, actionable reporting.
Cloud Datacenter Overview
- An open and flexible cloud platform
- Rapidly build, deploy and manage secure applications to scale
- Leverage current skills and the world’s most popular languages, tools, and frameworks
- Deploy applications on our secure and reliable global datacenter network or your own on-premise datacenter
On Premises (Private Datacenter)

- Applications
- Data
- Runtime
- Middleware
- O/S
- Virtualization
- Servers
- Storage
- Networking

You scale, make resilient and manage

Infrastructure (as a Service)

- Applications
- Data
- Runtime
- Middleware
- O/S
- Virtualization
- Servers
- Storage
- Networking

You scale, make resilient & manage

Platform (as a Service)

- Applications
- Data
- Runtime
- Middleware
- O/S
- Virtualization
- Servers
- Storage
- Networking

You manage

Managed by vendor

Scale, resilience and management by vendor

Software (as a Service)

- Applications
- Data
- Runtime
- Middleware
- O/S
- Virtualization
- Servers
- Storage
- Networking

Scale, resilience and management by vendor

Business model

- On Prem - IaaS – PaaS - SaaS
Business Applications

- Browser
  - Constituent Contact Management
  - Constituent Correspondence
- Outlook
  - Case Management/FOIA
- Mobile Devices
  - Extended CRM Applications (xRM)

Productivity Applications and Existing Business Systems

- SaaS / IaaS
- On Premises
### Real-World Solutions for Real-World Government

<table>
<thead>
<tr>
<th>Civilian</th>
<th>Homeland Security</th>
<th>Defense</th>
<th>Non-Governmental Agencies</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Justice</td>
<td></td>
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<td></td>
<td>Public Safety</td>
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<td>Correspondence / Outreach / Citizen Services</td>
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<td>Case Management</td>
<td>Emergency and Response Tracking</td>
<td>Dispatch Management</td>
<td>Recruitment Management</td>
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<td>Call Center</td>
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<td>Task Management</td>
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<td>Volunteer Tracking</td>
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<td>Opportunity / Capture Management</td>
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<td>Information Gathering and Tracking</td>
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<td>Field Inspection</td>
<td>Intelligence Gathering</td>
<td>Law Enforcement Inquiry Tracking</td>
<td>Depot and Asset Management</td>
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<td>Vehicle Fleet Management</td>
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<td>Call / Case / Process Management</td>
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<td>Threat Management</td>
<td>Installation Pass Management</td>
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<td>Distinguished Visitor Tracking</td>
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<td>Application Modernization</td>
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<td>HR/Personnel Management</td>
<td>Security Approval Management</td>
<td>In / Out (Onboarding) Processing</td>
<td>Workforce Management</td>
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<td>Award and Decoration Management</td>
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<td>Program Management</td>
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• Virtual Machines
• Session based Delivery
• Avoiding large capital expenditures
• Resiliency
Thank You!
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@ncpublicpower
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@ElectriCitiesNC
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*Or you can use italics*