What Finance Officers Need to Know About Cloud Computing



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Agenda

- What is Cloud Computing?
- Service and Deployment Models
- CSMFO Cloud Survey
- Cloud Software Discussion
- Decision On-Premises or Cloud?
- DeAnna Hilbrants City of Sonoma
- Questions and Answers



What is "Cloud Computing"

"Cloud computing is a model for enabling ubiquitous, convenient, on demand network access to a shared pool of configurable computing resources (e.g., networks, servers, storage, applications, and services) that can be rapidly provisioned and released with minimal management effort or service provider interaction."

- National Institute for Standards and Technology



What is "Cloud Computing"

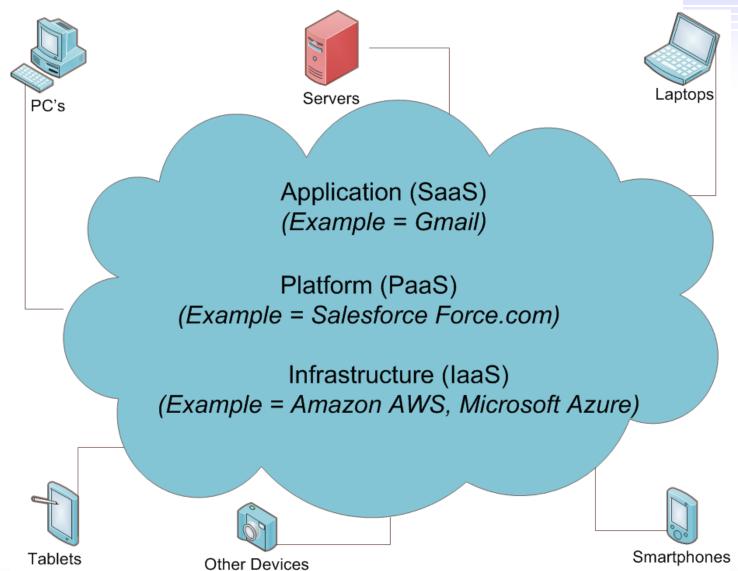
Translation:

Using the internet to access software applications and store data.





What is the "Cloud"





Service and Deployment Models

Service Models – "What do I use the cloud for?"

SaaS – Software as a Service

PaaS – Platform as a Service

SaaS – Infrastructure as a Service



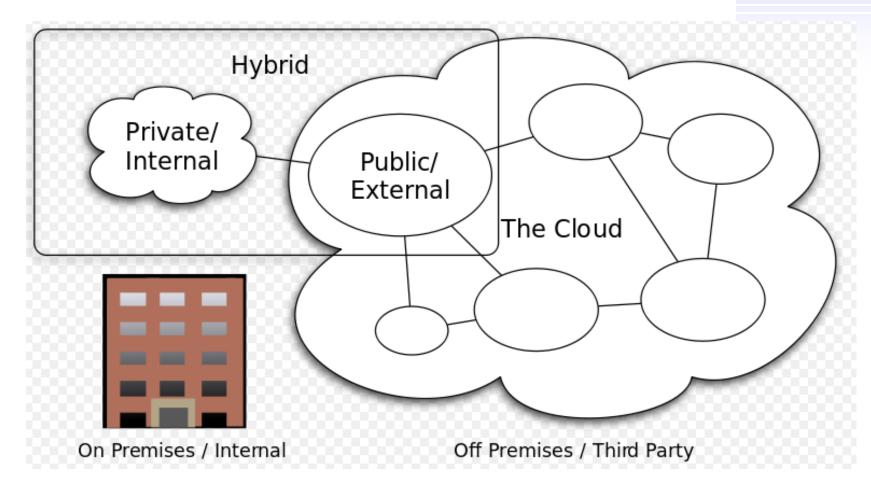
Service and Deployment Models

Deployment Models - "How do I want to design my use of the cloud?"

Public Cloud
Private Cloud
Hybrid

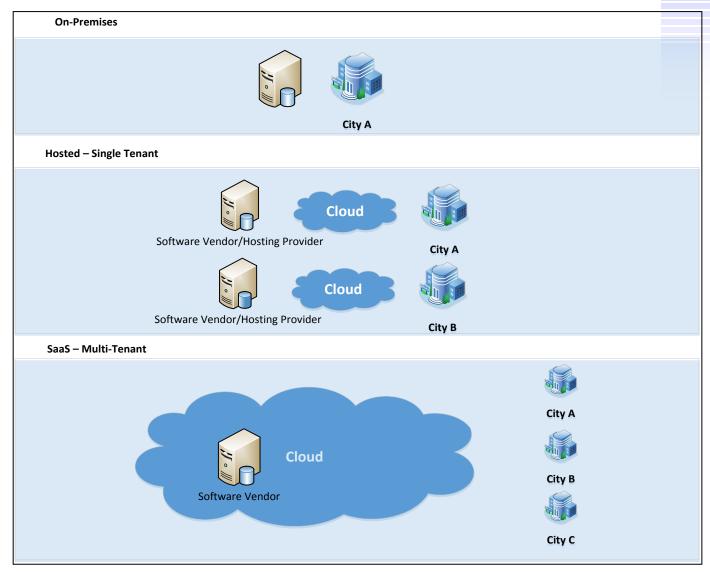


Service and Deployment Models





On-Premises, Hosted, and Multi-Tenant SaaS



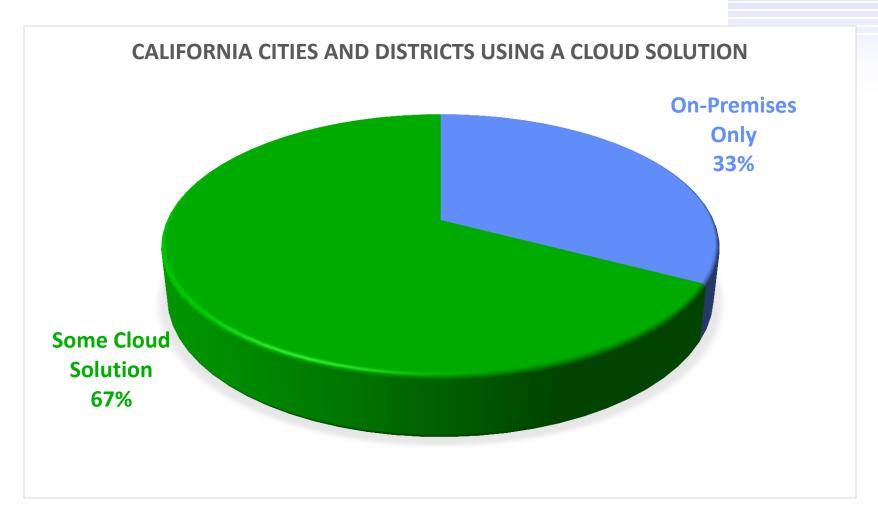


CSMFO Cloud Survey

- 52 California Municipalities and Special Districts responded
- Mix of small and large organization responses
- Survey is for informational purposes only not scientific



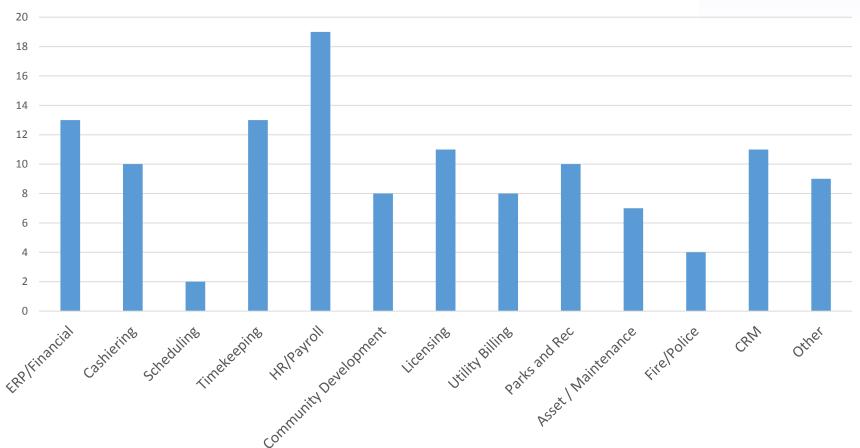
CSMFO - Who is Using the Cloud?





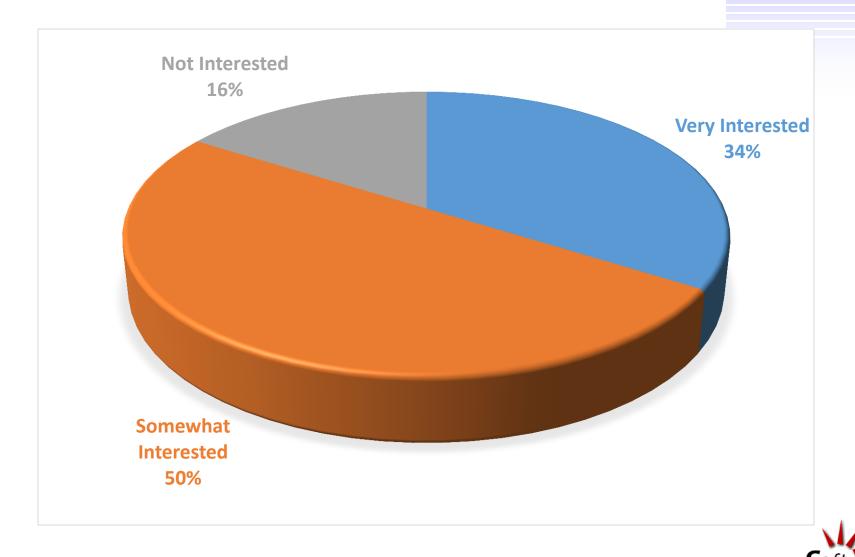
CSMFO – What Applications Used in the Cloud?

Cloud Applications Used by CSMFO Survey Respondents (52)

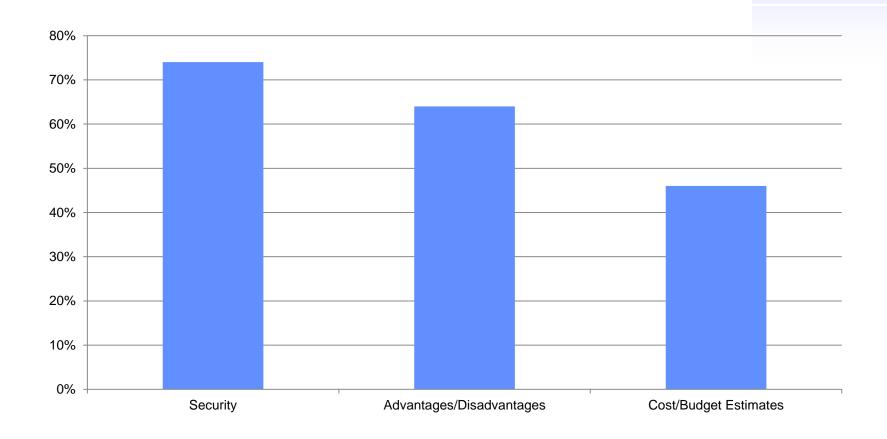




Interest in Implementing Cloud Solutions



Top 3 Cloud Topics From Survey





Cloud Security

Risks:

- Data outside of your control
- Data protection
- Access control
- Offshore development and/or support

Mitigation:

- Negotiate strong Service Level Agreement
- Audited security controls
- References History of high availability at least 99.95%
- Documented disaster recovery plans
- Regular penetration testing
- Data portability policy
- Confirm location of development and support



Traditional On-Premises Solution

ADVANTAGES

- Ownership capital acquisition
- Internal control of data and software
- Control of integration
- Choose upgrades
- Ability to discontinue support and maintenance
- Lower long-term out-ofpocket cost
- Easier to customize

DISADVANTAGES

- Requires IT Infrastructure
- Requires IT Resources
- Requires System Knowledge
- Upgrades can be difficult
- Higher up-front cost
- Disaster recovery responsibility



Hosted Single Tenant Solution

ADVANTAGES

- Ownership capital acquisition
- Internal control of data and software
- Choose upgrades
- Vendor manages software and servers
- Ability to discontinue support and maintenance
- Move on-premises
- Less IT resources to support system

DISADVANTAGES

- Upgrades can be difficult
- Higher out-of-pocket cost than On-Premises
- Integration with other systems may be more complex
- Requires high-speed, reliable internet connection



Multi-Tenant SaaS Solution

ADVANTAGES

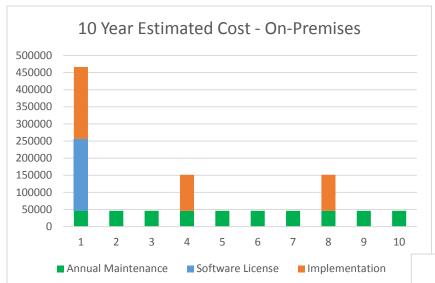
- Lease operating expense
- Ownership of data
- Vendor manages infrastructure
- Vendor manages upgrades
- Lower initial out of pocket cost
- Fewer internal IT resources

DISADVANTAGES

- Software modifications limited
- Must stay on current version
- Cannot miss payments
- Vendor stability a risk
- Potential issues with leaving software vendor (how will data be returned?)
- Higher long-term out-ofpocket cost
- Requires high-speed, reliable internet connection

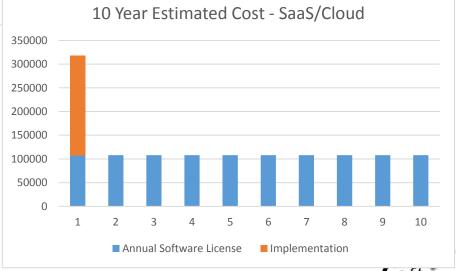


Hypothetical ERP Cost Estimates

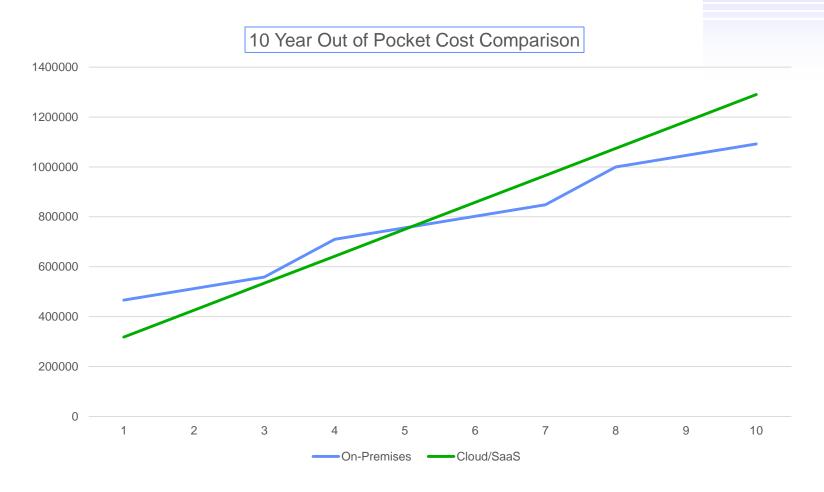


On-Premises/Hosted = Capital Cost

SaaS/Cloud = Operating Cost



On-Premises vs. SaaS Cost Comparison





On-Premises or Cloud?

On-Premises Decision

- Strong internal IT staff
- Outsourcing not an option
- Existing capacity in technical infrastructure
- Desire for direct control of software and data
- Software customization requirements
- Cost analysis/business case

Cloud Decision

- Stable software vendor
- Desire to outsource part of IT support
- Small or no IT staff
- Difficulty finding resources to support applications
- Maintain the latest version of the software
- Prefer to have operating expense rather than capital expense
- Cost analysis/business case



Evaluating Cloud Software Solutions

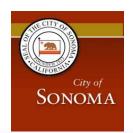
- Know the difference between Hosted and Multi -Tenant SaaS
- Understand Service and Deployment Models
- Evaluate both On-Premises and Cloud software offerings (some vendors only offer one or the other)
- Select delivery method right for you
- Analyze the cost of each option
- Negotiate the Service Level Agreement
- Different employee skill sets are required for managing Cloud software and vendors vs. onpremises





City of Sonoma

- Selected Springbrook Cloud 2012
- Implemented ERP
- Selection Experience
- Why we went to the Cloud
- Experience moving to Cloud
- Benefits/Drawbacks





Questions and Answers





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Thank You!

