

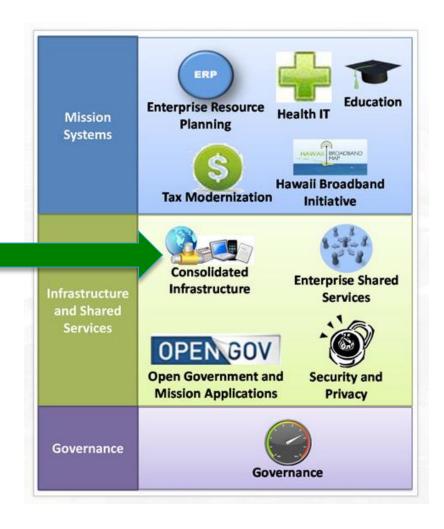


IT Steering Committee Meeting Modernize the Technology

Sharon Wong
Acting ICSD Administrator

Thursday, January 23, 2014 10:00 am – 11:30 am

State of Hawaii's Transformation Programs





Modernize the Technology

Infrastructure Upgrades

Government Private Cloud (GPC) Project

- Implement Data Center Strategy
- Network Upgrades (NGN, iNET, Internet Service Providers)
- Server Consolidation through Virtualization Technologies



3 Pillars of Hawaii's Government Private Cloud

Vision

To provide the State of Hawai'i with a common platform for Datacenter Consolidation, Shared/Self Service, and Private Cloud that will lower the cost of IT and reduce complexity in the current environment

Strategic Pillars



Reduce Costs

Reduce hardware and operating costs by increasing current virtualization levels, reducing Data Center footprints, closing DC's and automating manual tasks.



Reduce Risk

Reduce outage and disaster risk by deploying a GPC where Disaster Recovery/Business Continuity Plans are built-in automatically or can be efficiently added.



Increase Agility

Increase the business agility of IT. Remove the complexities of managing IT and thereby transforming it into a turn-key utility that can quickly and easily support planned enterprise initiatives.

Foundational Elements

Technology (Network, Hardware, Virtualization, Automation)

Process (Incident/Problem, Change, Chargeback. Service Levels)

Integrated Team (Network, Server, Storage, Security, Facility, etc.)





Key Aspects of the OIMT/ICSD Government Private Cloud Effort

Technology

- Facilities infrastructure (space, power, racks, etc.)
- Backbone network connections (NGN, iNet, carrier circuits)
- GPC physical infrastructure (IBM Flex system, V7000, DC network)
- GPC Virtual infrastructure (vSphere, VCAC)
- Supporting infrastructure (backup, archival, management systems & tools)

Service Management

- Service Catalog (definitions, pricing, service levels)
- Core processes and tools (incident/problem, change, configuration)
- Service Desk and Operations Center
- Other processes (capacity/performance, chargeback, release, etc.

Migration

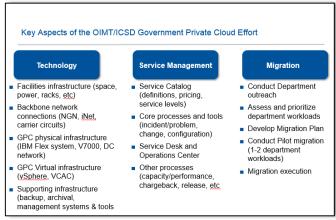
- Conduct Department outreach
- Assess and prioritize department workloads
- Develop Migration Plan
- Conduct Pilot migration (1-2 department workloads)
- Migration execution



What We've Already Completed

- Cloud Operational Readiness Assessment October 2013
- Plan and Design for vSphere November 2013
- vCloud Networking and Security Workshop November 2013
- Government Private Cloud organization defined December 2013
- IBM Flex Systems delivered December 2013

The GPC Team is Currently Developing the Overall Project Plan



- Review and validate key workstreams
- Review and refine work breakdown structure
- Identify primary owners and contributors for workstreams and key activities
- Identify dependencies between activities

Step 1: Introduce High-Level Workstreams COMPLETE

Step 2: COMPLETE

	0	Task Name	Duration	- Start	Finish .	Predecessors	Resource Names	Add New Column
1		' Infrastructure PMO	1 day?	Tue 1/14/14	Tue 1/14/14			
2		 Government Private Cloud (GPC) Design & Implementation 	1 day?	Tue 1/14/14	Tue 1/14/14			
3		[⋆] GPC Technology	1 day?	Tue 1/14/14	Tue 1/14/14			
4		 Deploy Physical Infrastructure 	1 day?	Tue 1/14/14	Tue 1/14/14			
5		 Establish Network Connectivity 	1 day?	Tue 1/14/14	Tue 1/14/14			
6		Circuits	1 day?	Tue 1/14/14	Tue 1/14/14			
7		Cabling	1 day?	Tue 1/14/14	Tue 1/14/14			
8		Equipment	1 day?	Tue 1/14/14	Tue 1/14/14			
9		Physical Infrastructure	1 day?	Tue 1/14/14	Tue 1/14/14			
10		4 IBM Flex System	1 day?	Tue 1/14/14	Tue 1/14/14			
11		Kick Off and Planning	1 day	Tue 1/14/14	Tue 1/14/14			
12		 Kalanimoku 	1 day?	Tue 1/14/14	Tue 1/14/14			
13		Site Kick Off	1 day?	Tue 1/14/14	Tue 1/14/14			
14		Basic Flex Network Configuration/Integration	1 day	Tue 1/14/14	Tue 1/14/14			
15		Advanced Flex Storage/FC Integratio	1 day?	Tue 1/14/14	Tue 1/14/14			
16		X86 Node Preparation	1 day?	Tue 1/14/14	Tue 1/14/14			
17		Power Node Preparation	1 day?	Tue 1/14/14	Tue 1/14/14			
18		Flex Systems Mgmt Configuration	1 day?	Tue 1/14/14	Tue 1/14/14			
19		⁴ DR Fortress	1 day?	Tue 1/14/14	Tue 1/14/14			

Step 3:
Develop GPC Project Plan
(includes milestone dates)
IN DEVELOPMENT (1/21-1/31)



Government Private Cloud Team

Leadership and Program Management

<u>Project</u> <u>Management</u> <u>Advisor</u>

<u> Mark Lennon</u>

Executive Sponsor

Keone Kali

Project Manager

Wayne Sasaki

<u>Virtualization Infrastructure</u> <u>State Team</u>

Marlo Rigor- Team Lead Al Witzell- Cloud Architect Lorenzo Farinas- Cloud Admin Jarrett Tanaka-Cloud Admin Patrick Stuart- Could Analyst

<u>Virtualization Infrastructure Vendor</u> Team

Sudesh Kumar- Technical Architect Mike Akita - VMWare Technical Acct Manager

TBD- Vmware Resident Engineer
TBD Vmware Support for VCAC
Heman Smith - Vmware Accelarate Team
TBD - IBM Hardware Install Support

Extended Project Team Members

Application Hosting
Lead

Bryce Fujii

Security Lead

Matt Wong

Service Desk

TBD

Enterprise Architecture

James Lum

<u>Network</u> <u>Operations Lead</u>

David Fujimoto

AIX/Linux Support

TBD

Business Unit Liaison/Change

<u>Leadership</u> Mark Lennon (acting) **Backups Lead**

Terri Yamada

Data Center Lead

Jason Mak

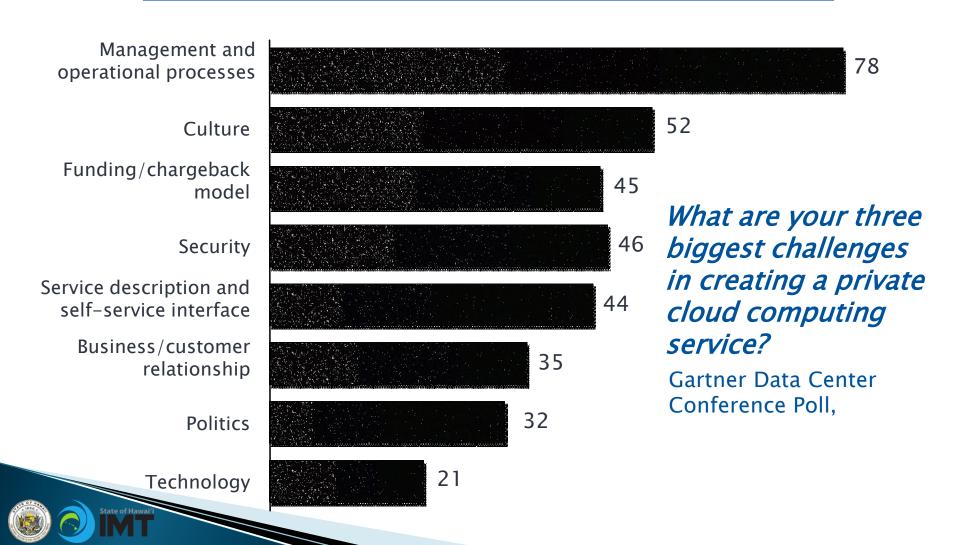
Storage Lead

Myles Murakami



Private Cloud Computing Challenges

Message: Technology is one of the easiest challenges



GPC Project Risks

- Communications State Departments may not understand services being provided and timeframe for delivery, which could lead to confusion and frustration
- ICSD Team may not have all the required skills to support the Government Private Cloud, nor the additional capacity to devote time to this project many are single points of failure in operational systems

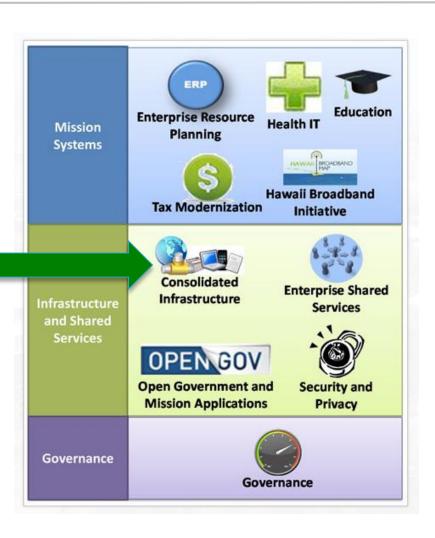


1/28/2014

10

State of Hawaii's Transformation Programs

<u>Government Private Cloud:</u> Implement Data Center Strategy Network Upgrades Server Consolidation









Questions?

Thank you!

1/28/2014

12