

Tanium Government Cloud Migration

State of Arizona – Department of Homeland Security

Project Investment Justification (PIJ)

November 16th 2022

Agency Vision

To be the nationwide best practice for grant management and administration as well as a premier leader in cybersecurity among all state homeland security departments.

Agency Mission

Our mission is to protect Arizona by providing strategic direction and access to resources that will enable all of the state's homeland security sub-recipient stakeholders to achieve our collective goals of Preventing terrorist attacks in Arizona, Enhancing border security, Heightening cybersecurity efforts, Reducing Arizona's vulnerability to all critical hazards, Enhancing the capacity and expertise to plan for, mitigate, respond to and recover from all critical hazards that affect the safety, well-being and economic security of Arizona, and Building the resiliency of Arizona.



Team Introduction

Roles Present at ITAC

- Tim Roemer, Director of Arizona Department of Homeland Security and State CISO
- Ngan Pham - AZDOHS, Statewide Cybersecurity Program Manager
- Brad Crowe - Tanium, Director of Strategic Accounts

Project Introduction

Stated Operational/Business Issue

- The current solution is expiring and we need to move from on-prem to the cloud.
- It's currently on prem and the new solution will be on a FedRAMP environment, which makes it more secure than on prem.
- The Arizona Department of Homeland Security (AZDOHS) currently has only one (1) Tanium product owner (FTE) responsible for migrating over 70 state agencies from Tanium on-premises environment to Tanium Cloud for U.S. Government environment.

Benefit to the State Agency and Constituents

- Tanium will continue to provide visibility to assets and the network.
- Tanium will continue to identify risks and defend against potential vulnerabilities.
- Tanium provides automation of tasks thereby expanding existing staff capacity and identify opportunities for cost savings.
- Tanium Cloud of U.S. Government is more secure, will decrease infrastructure support costs, improve performance while increasing security, and ensure the tool is operational in a timely fashion.
- Vendor managed solution saves time and automatically updates.
- Professional services are certified, have more experience, and will save AZDOHS team time.
- Professional services will provide clean up work. The solution will allow for automated updates versus current weekly updates.

Proposed Solution - Tanium

Overview of Proposed Solution

- Tanium tool is the result of the Enterprise Security Program Advisory Council (ESPAC) - Asset and Patch Management Committee and recommendation to full ESPAC board.
- Tanium client is a service installed on endpoint devices. There are multiple modules within Tanium that discover and report both static and dynamic real-time data pertaining to the endpoint.
- Tanium satisfies several of the Center for Internet Security (CIS) Top 18 Critical Security Controls. The CIS Top 18 is the framework that ESPAC approved as the measurement standard for Enterprise security.
- Tanium provides an understanding of what is in an environment to accurately identify risks and successfully defend the enterprise against potential vulnerabilities. (CIS #1 and #2).
- Tanium can patch vulnerabilities from Operating System and 3rd party applications, (CIS #3), both on and off the State's network which current agency-based tools do not.
- Tanium identifies the users with administrative rights and device access that can represent a risk if compromised (CIS #4).
- Tanium ensures compliance and secure configurations of hardware (CIS #5) and provides automation of tasks thereby expanding existing staff capacity.
- Renewal of licenses will ensure continued uninterrupted support.
- The migration to the Tanium Cloud for U.S. Government environment is aligned with P1100 - Cloud First Policy and will increase regulatory compliance in a FedRAMP authorized and protected cloud environment to better support agencies that are required to be in alignment with federal regulations.

Proposed Solution

Due Diligence and Method of Procurement

- Five vendors were evaluated for professional services; True Zero Technologies, Presidio, World Wide Technology, Hitorra, and SHI. AZDOHS in coordination with the State Procurement Office (SPO) reviewed vendor Statements of Work.
- AZDOHS met with the Tanium technical teams multiple times to review the Tanium Oversight Committee (comprised of 10+ state agencies) in June. ESPAC reviewed the recommendation from the Tanium Oversight presentation where ESPAC was able to ask questions. AZDOHS has also met with Tanium security teams regarding compliance. The licenses were purchased on a current state contract and multiple bids were received. Worked directly with SPO.

Technology

- Tanium Cloud for US Government is the change that is being transitioned to from the on-prem technology currently used at the state data center. The remaining Tanium technology remains the same that the state has used for the past 2 years. AZDOHS is bringing in a professional services organization to assist with this migration.

Project Responsibilities

Identify Proposed Solutions Responsibilities

Agency

1. Vendor management professional services and technology solution
2. Administration of cloud instance
3. Provision accounts
4. Firewall change requests and AV exclusions

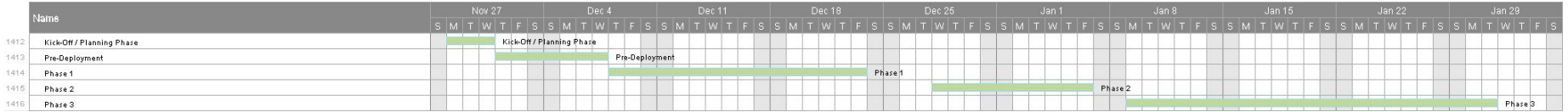
Shared

1. Coordinate with customer change management to ensure smooth updates and other change requests need to support the migration
2. Support and manage the cloud instance
3. Tanium and State will provide expertise and advice to professional services team
4. State and professional services create, manage, and track project plan and activities, coordinate go-live, testing and training activities; execute change requests; keep accurate records

Vendor/Contractor

1. Professional services provide hands on keyboard; participate in meetings where users, configurations, endpoints, and current use cases are migrated from on-premises to Tanium Cloud for U.S. Government; escalate especially complex issues directly to the Tanium Support Center and facilitate resolution for the customer

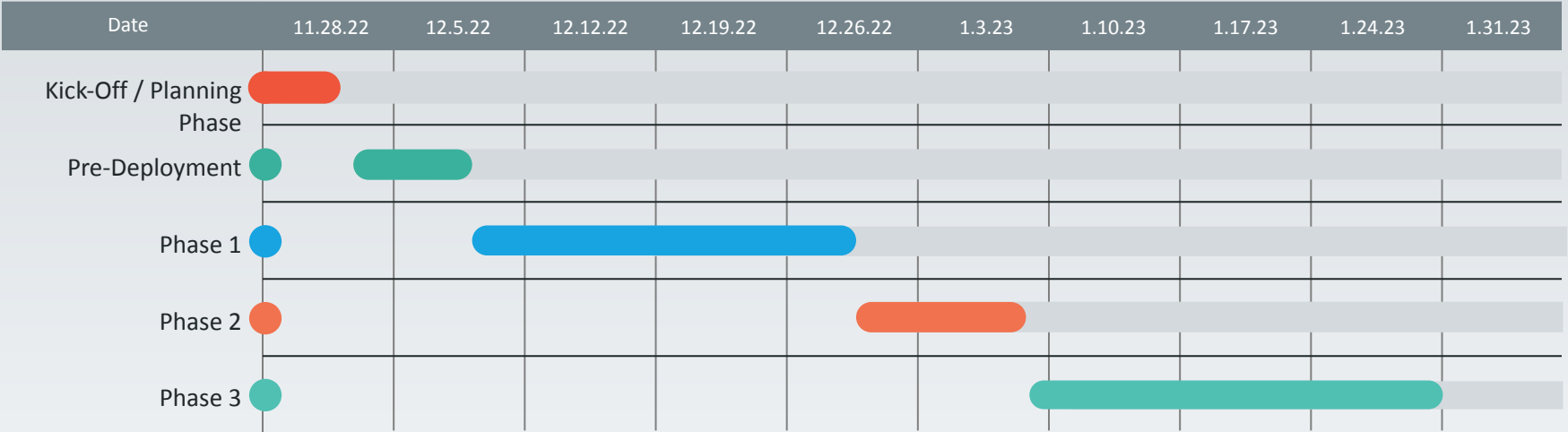
Project Timeline



Deliverables Legend	Dates
Kick-Off/Planning Phase	11/28/2022 - 11/30/2022
Pre-Deployment	12/1/2022 - 12/7/2022
Phase 1	12/8/2022 - 12/23/2022
Phase 2	12/28/2022 - 1/6/2023
Phase 3	1/9/2023 - 1/31/2023

Detailed tasks are outlined in project plan

Project Timeline (if applicable)



Project Costs

Project Costs by Category	FY23	FY24	FY25	FY26	FY27	Total
Professional & Outside Services (Contractors)	\$69,135.00					\$69,135.00
Hardware						
Software						
Communications						
Facilities						
License & Maintenance Fees	\$1,739,364.75	\$1,490,942.25	\$1,490,942.25	\$1,490,942.25	\$1,490,942.25	\$7,703,133.75
Other Operational Expenditures						
Total Development	\$1,808,499.75					\$1,808,499.75
Total Operational		\$1,490,942.25	\$1,490,942.25	\$1,490,942.25	\$1,490,942.25	\$5,963,769.00

What Success Looks Like

Change Management

- 1) Communication plan
 - i) A communication plan will be developed in planning phase.
 - ii) Some agencies have already been contacted and discussions are underway to plan for their migrations (ADOA + managed agencies, DES)
- 2) Migration plans
 - i) Migration plans by agency are outlined in the full project plan.
 - ii) Each agency will be prioritized according to their schedule
- 3) Change Management
 - i) AZDOHS will submit firewall and AV changes through the ADOA CAB process

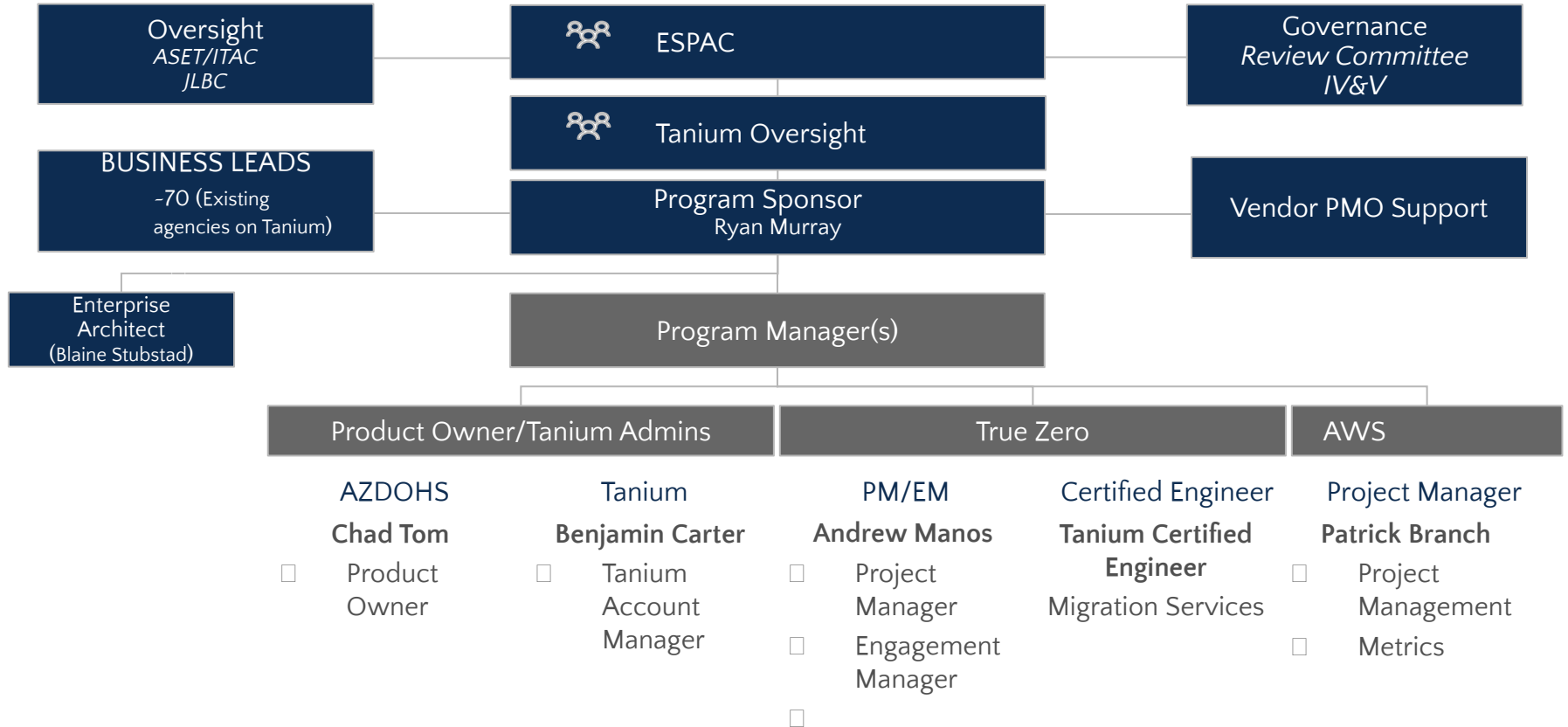
Measures of Success

- a. All endpoints (~24,000) transition from Tanium on-prem environment to TC-USG environment
 - i. Migrate test agency - AZDOHS - Completed
 - ii. Migrate ADOA - 650
 - iii. Migrate Managed Agencies - 1500
 - iv. Migrate remaining Agencies - ~22,000
 - v. At the end of the project, 0 endpoints on Tanium on-prem environment.
- b. All agencies using Tanium are successfully able to manage the endpoints that have been transitioned over to the TC-USG environment
- c. Appropriate data (computer groups, permissions, module configuration) will be migrated to TC-USG

Q & A Session

Appendix

Program Structure



Financial Impact (If Applicable)

Overview of Current Budget Position

State Funding			
APF			
	Appropriated	Favorably Reviewed	ADOA Transferred
Total FY22 Appropriated	\$	\$	\$
Total FY23 Appropriated	\$	\$	\$
Total FY24 Appropriated	\$	\$	\$
Total FY25 Appropriated	\$	\$	\$
Total APF	\$	\$	\$
General or Non-APF State Fund			
Fiscal Year	Planned		
FY23	\$11,930,300		
FY24	\$11,930,300		
Total General Fund	\$23,860,600		
Total of All State Funding	\$23,860,600		
Federal Funding			
	Appropriated	Approved to Spend	Available to Spend
Name/Number of Fund	\$	\$	\$
Actuals			
APF/GF Spent		Federal Spent	
Name/Number of Fund	\$	Name/Number of Fund	\$
Name/Number of Fund	\$	Name/Number of Fund	\$
Total APF/GF Spent	\$	Total Federal Funds Spent	\$
Total Fund Remaining			
Total Funds Available to Spend	\$320,000		
Total Funds Spent	\$9,952,387		
Total Funds Remaining	\$1,977,913		

- Licenses have already been purchased with FY23 SISPO funds
- Professional Services will be purchased, once PIJ approved, from the SISPO fund
- \$320,000 was reserved for professional services total. This project is expected to spend \$69,135. Future professional services may be used if warranted.

Financial Impact (If Applicable)

Breakdown of Financial Impact

Project Development Funding	
Base Budget - Available	
Base Budget - To Be Requested	
APF Budget - Available	
APF Budget - To Be Requested	
Other Appropriated - Available	
Other Appropriated - To Be Requested	
Federal - Available	
Federal - To Be Requested	

Total Development Project Funding	
Available Budget	
To Be Requested Budget	

Operational	
Current 3-Year Operational Cost (Avg)	
Proposed 3-Year Operational Cost (Avg)	
Financial Impact of New System	

Total Operational Funding - Project	
To Be Requested Budget	