

Agency Vision

All Arizonans who qualify receive timely DES services and achieve their potential.

Agency Mission

DES will ensure the strength and economic stability of Arizona by providing timely, temporary benefit assistance, and aid to vulnerable, qualifying Arizonans.



DEPARTMENT OF ECONOMIC SECURITY

Your Partner For A Stronger Arizona

DE21020 DES Storage Refresh (NetApp)

ITAC Meeting Date: June 23, 2021

Presented by: Clayton Sikes



Division of Technology Services (DTS)

Project Introduction

Problem Statement:

- Several storage components hitting end of support
- Significant physical storage footprint
- Large power usage costs due to legacy componentry
- Moving parts seeing greater failure rates
- Audit issues concerning at rest encryption
- Desire to advance technology to increase system performance
- Disaster Recovery (DR) Challenges

Project Benefits

Benefit of Solution:

- Maintain current reliability and support levels
- Reduction of physical footprint in data center
- Cloud Based Disaster Recovery (DR) capability
- At rest encryption for all DES data
- Reduction of data center power consumption requirements
- Simplification of infrastructure management

Procurement

- NetApp is the selected storage platform to maintain Cisco Validated Design (CVD)
- cStor (VAR) will provide all professional services
- Solution requires Azure storage footprint and Expressroute connectivity
- Data migration will be done non-disruptively over 120 days
- DR will be moved from on prem to Azure and will incur monthly billing costs

Technology

- NetApp A700 platform will provide resilience and flexibility for DES workloads
- All flash (SSD storage)
- Solution collapses seven racks down to two racks
- Will leverage NetApp Cloud Volumes ONTap (CVO) for DR capabilities

Project Responsibilities

Agency

1. Project Management
2. Change Management
3. Decommission of legacy equipment
4. User Acceptance Testing
5. Communication

Shared

1. Rack and stack
2. Technical and non-technical meetings
3. Data migration
4. CVO Deployment

Vendor/Contractor

1. Architecture and Integration Design
2. Cable management
3. Design documentation
4. Training and communication

Project Timeline



*Timeline is subject to change based on cStor scheduling and hardware delivery.

Project Costs

Project Costs by Category	Year 1	Year 2	Year 3	Year 4	Year 5	Total
Professional & Outside Services (Contractors)	\$171,200.00	\$0.00	\$0.00	\$0.00	\$0.00	\$171,200.00
Hardware	\$249,943.06	\$0.00	\$0.00	\$0.00	\$0.00	\$249,943.06
Software	\$485,024.34	\$485,024.34	\$485,024.34	\$485,024.34	\$485,024.34	\$2,425,121.70
License & Maintenance Fees	\$705,179.39	\$705,179.39	\$705,179.39	\$705,179.39	\$705,179.39	\$3,525,896.96
Total Development	\$1,611,346.80	\$0.00	\$0.00	\$0.00	\$0.00	\$1,611,346.80
Total Operational	\$0.00	\$1,190,203.73	\$1,190,203.73	\$1,190,203.73	\$1,190,203.73	\$4,760,814.93
Total						\$6,372,161.72

What Success Looks Like

Change Management

- Project Milestones
 - Readiness & Plan
 - Design
 - Build and deploy
 - Communications
 - Resume steady state
 - Payment of Invoices

Measures of Success

- Successful migration of data to new volumes with zero disruptions.
- Decommissioning of legacy equipment.
- DR Presence in Azure.

Requesting Approval For

Requesting approval for the following:

- Procurement of new storage equipment, Azure DR presence, and necessary professional services.

Questions and Answers

Q & A
Session