



Mesa Water District
Data Center Server Hardware Recommendation



<p>5 Year IT Master Plan</p> <p>Data Center Hardware Refresh</p> 	<p><u>Current State & Recommendation</u></p> <ul style="list-style-type: none">• Data Center hardware was implemented in 2015 and is at end of life• The Data Center hardware refresh is included in the FY 2021 IT capital plan• RECOMMENDATION: Transition from a full on-site data center to a cloud data center platform
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Cloud Data Center Platform



 T2 TECH GROUP

Attributes

- Improved redundancy
- Reduced space, power & HVAC requirements
- Requires strict controls and governance
- Outsourced infrastructure renewal & maintenance
- Dynamically scalable capacity
- Cost is variable based on usage

Assessment

Cloud
Vs
On-Site

 T2 TECH GROUP

Cloud Data Center Platform

- Improved resiliency with more capable redundancy, backup and recovery options
- Has become an industry best practice
- Lower cost of ownership

Industry Best Practices



Barron's

- Cloud data center platform is growing “with an increasing focus on facilitating ease of use, migration from traditional IT infrastructure, security and compliance”

T2 Tech Group perspective

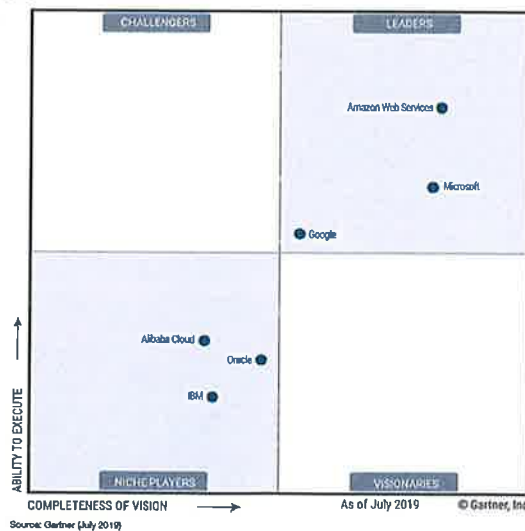
- Other mission critical operations such as healthcare are transitioning from on-site to cloud data center platforms

Amazon Market Leadership

Gartner
Magic Quadrant



Amazon Web Services is the recommended Cloud Data Center services prov



Financials

Five-year total cost of ownership

Cloud Data Center	
FY2021 Capital HW Capital	\$100,000
FY2021 T2 Tech Group Professional Services	\$835,452
Five Year Annual Ongoing Costs	\$1,020,000
Five Year Total Cost	\$1,955,452

Five-year saving of \$750,000, \$50,000 per year plus a minimum of \$500,000 every five years.

IT Security Initiative Alignment

FY2021-22 IT Security Initiatives

- 7/24 External Security Monitoring
- Mobile Device Management
- User Authentication
- Device Security

Recommendation



Recommend that the Board of Directors:

- Award a five-year contract to Amazon Web Services in the amount of \$132,000 per year for a total contract amount not to exceed \$660,000 for a cloud-based data center services platform.
- Award a contract to T2 Technology Group, LLC for an amount not to exceed \$835,452 for the transition of the onsite information technology data center to a cloud-based data center.
- Approve an additional amount not to exceed \$175,000 for infrastructure, license subscription, and circuit connection to Amazon Web Services.

Cloud Data Center Platform



Questions?