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Adopting Amazon EC2 an AWS Elastic DR in Healthcare

Problem Statement

- A Health Care Company faced significant challenges in maintaining efficient and reliable disaster recovery for their critical infrastructure. The company's existing disaster recovery solutions were unable to keep up with rapid growth and the complex requirements of managing over 150 virtual machines running Microsoft Windows Server. The recovery times and point objectives set by their service-level agreements (SLAs) were not being met, leading to potential risks in business continuity.



Start and End Date of Project

- › The project commenced in early 2023 with an initial assessment and planning phase, followed by a detailed design and implementation phase. The full deployment and operational testing were completed by the end of 2023, with ongoing adjustments and scalability enhancements continuing through early 2024.

Outcomes of Project & Success Metrics

The adoption of Amazon EC2 and AWS Elastic Disaster Recovery led to a dramatic improvement in disaster recovery capabilities for the Health Care Company:

- › Recovery Time Objectives (RTOs) were reduced from hours to minutes, achieving recovery times up to 12 times faster than the previous 4-hour SLA
- › Recovery Point Objectives (RPOs) were brought down to seconds, ensuring minimal data loss.

The solution allowed for scalability, accommodating business growth without requiring extensive additional investments in physical infrastructure.

TCO Analysis Performed

- › A Total Cost of Ownership (TCO) analysis revealed that moving disaster recovery to the cloud shifted capital expenses to operating expenses, avoiding significant capital outlay for data center hardware refreshes. Additionally, the pay-as-you-go model of AWS reduced overall disaster recovery costs while improving operational flexibility.





Lessons Learned

Several key lessons were learned throughout the project:

- **Testing and Validation:** Rigorous testing and validation of the disaster recovery setup were crucial in ensuring the solution met the required recovery objectives.
- **Vendor Collaboration:** Close collaboration with AWS Professional Services was instrumental in meeting project timelines and technical requirements.
- **Operational Simplicity:** The push-button failover process significantly reduced the complexity of disaster recovery operations, enhancing overall confidence in system recoverability.

