Disaster Recovery in Hybrid Multi-Cloud Deployments with A10 Lightning Application Delivery Service

Use A10 Lightning Application Delivery Service (ADS) as a core component of your disaster recovery architecture to enhance business continuity across applications running on-premises, or in public and private clouds.

Disaster recovery (DR) requires having a plan in place to prepare for and recover from a disaster. Any event that has a negative impact on a company's business continuity or finances could be termed a "disaster," including hardware or software failure; a network outage; a power outage; an outage due to a hack, DDoS attack or other cyber security event; physical damage to a building, such as a fire or flooding; human error; or myriad other significant events.

To minimize the impact on applications and ensures business continuity for critical operations, a disaster recovery plan for data and applications is imperative when designing cloud-based deployments.

Rising Complexity of Application Disaster Recovery

Some organizations are rethinking the need for secondary data centers and are migrating to the cloud to achieve greater scalability, improved cost-efficiency and higher application performance. Today's data centers are complex and applications may not have evolved from the traditional client- server paradigms. Planning and orchestrating disaster recovery for applications or an entire site can be challenging and complex.

Challenges include preparing multiple disaster recovery solutions for data center infrastructure, provisioning for multi-site deployments and maintaining the security posture of the application all while delivering a consistent application experience to the end user.

Disaster Recovery with A10 Lightning Application Delivery Service

A10 Lightning Application Delivery Service alleviates these challenges by supporting flexible cloud or on-premises configurations. Lightning ADS monitors applications that use a

combination of virtual and physical assets, including hypervisors and appliances, while satisfying multiple scenarios for DR (active-standby, active-active, Pilot Lamp, etc.), and offer unified services that deliver availability, performance and security for applications in a DR site.

Furthermore, Lightning ADS's multi-cloud application delivery capabilities allow organizations to leverage any cloud as their DR site, eliminating the need to manage and maintain a secondary site to protect heterogeneous workloads.

Maintaining a secondary data center is expensive, requiring significant capital for the initial build out and ongoing operating costs. That's a massive investment for a secondary site that may be used just a few times per year—and ideally would never be used—and sits idle for the vast majority of time.

With Lightning ADS you can use any public cloud as your secondary DR site, replacing up-front capital and operating expenses with a pay-as-you-go model. Thus you only pay for cloud-based disaster recovery resources when you use them.
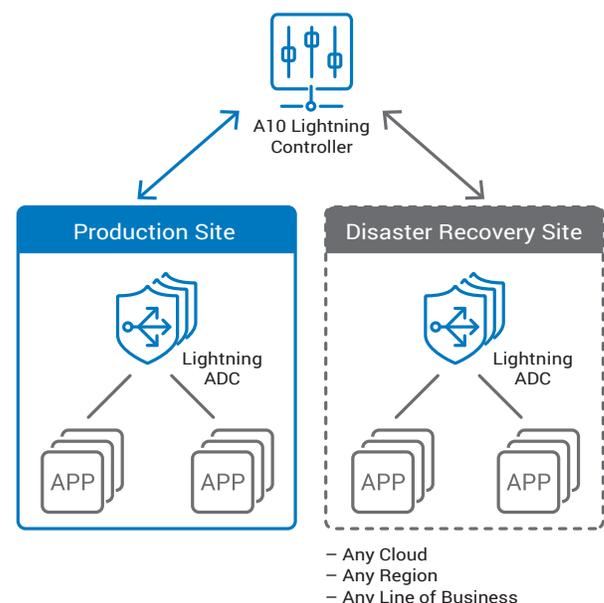

Fig. 1: A10 Lightning Application Delivery Service for Disaster Recovery

In the event of a disaster, A10 Lightning ADS quickly redirects traffic to your DR resources in any cloud (AWS, Azure, Google, VMware, etc.) ensuring business continuity.

The disaster recovery solution available in A10 Lightning ADS significantly minimizes the impact on your application, your system, and your overall business operations in the event of a disaster.

A10 Lightning Application Delivery Service's Disaster Recovery Capabilities

A10 Lightning Application Delivery Service supports disaster recovery for a wide range of enterprise workloads to deliver:

- Cloud-based protection and recovery: Failover on-premises applications to any cloud, reducing the need to build and operate a second data center for recovery. Reduce expenses and only pay for what is used in the cloud
- Application consistency: Detect and stage multi-tier applications effortlessly and seamlessly in any cloud
- The ability to perform DR drills with Blue/Green DR capabilities without impacting production workloads
- Continuous protection against evolving disaster recovery needs for both on-premises and cloud-based deployments

Benefits

Ease of Use

A10 Lightning Application Delivery Service offers an intuitive user experience, centralized management dashboards and a single pane of glass view into your applications to quickly and effectively respond to availability and performance issues.

Greater Scalability

The solution is cloud-native and built to scale to reduce the complexity and cost of growing application ecosystems. The technology can be deployed either in line or out of line, and it rapidly supports an expanding application environment, whether that means higher traffic volumes or more IP addresses.

Real-Time Failure Detection

Bi-directional traffic analysis, automated behavioral profiling, and multiple collaborative detection engines help infrastructure and application teams quickly identify failures, improving availability and preventing loss of business.

A10 accelerates cloud adoption with its cloud-native, subscription-based, easy-to-deploy Lightning Application Delivery Service, which empowers application teams to deliver high-performance, available, secure applications with continuous deployment. By providing end users with more rewarding application experiences, A10 Lightning ADS gives application owners greater business agility, cost savings and a competitive advantage.

About A10 Networks

A10 Networks is a leader in application networking, providing a range of high-performance application networking solutions that help organizations ensure that their data center applications and networks remain highly available, accelerated and secure. Founded in 2004, A10 Networks is based in San Jose, California, and serves customers globally with offices worldwide. For more information, visit: **www.a10networks.com**