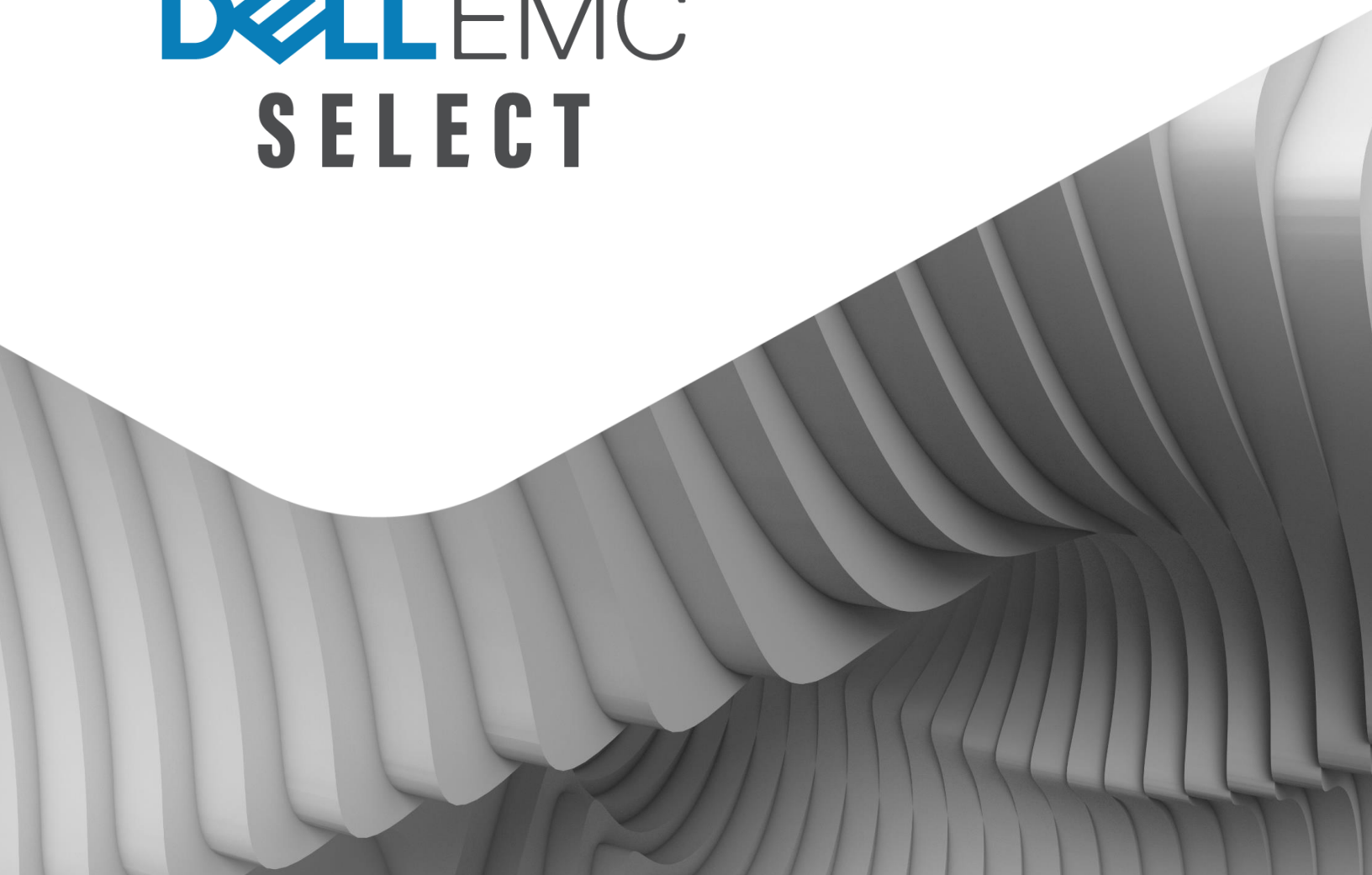
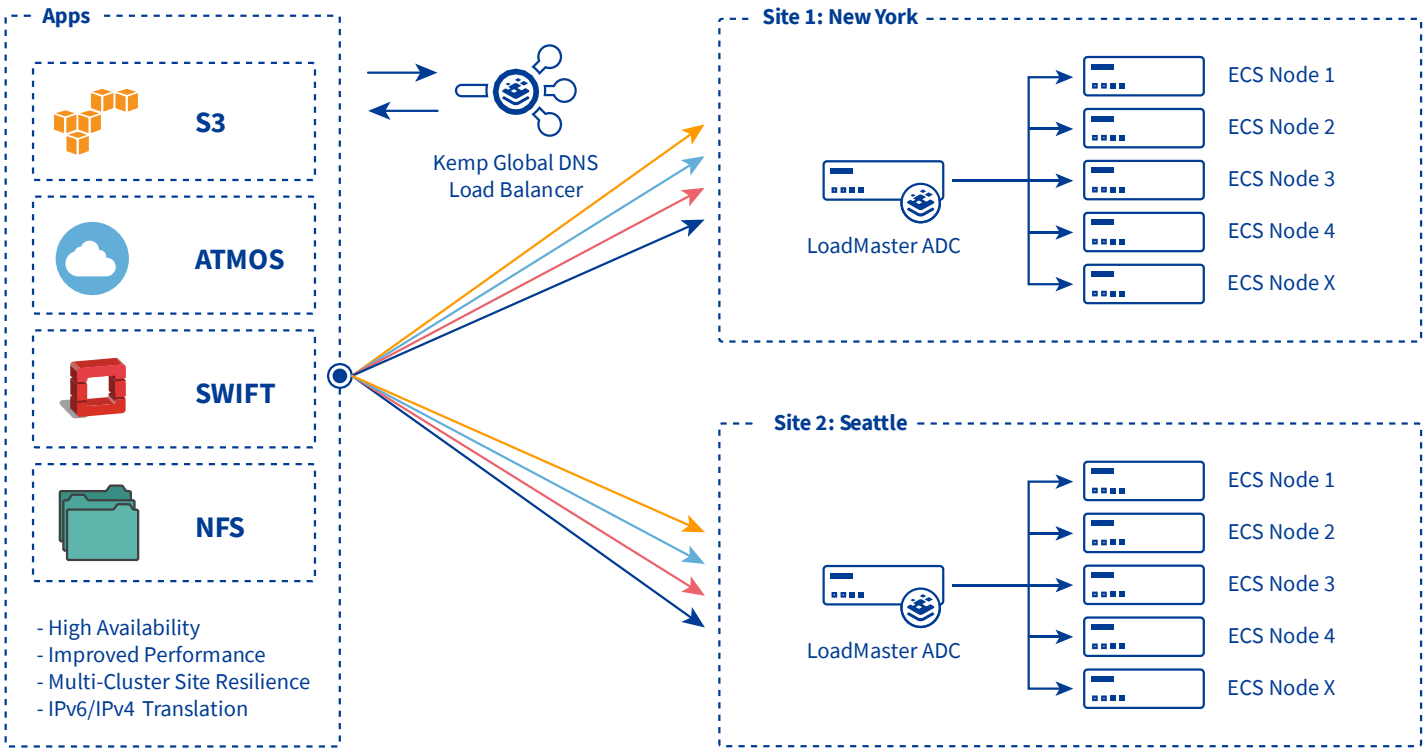
Dell EMC ECS & Kemp

Solution Brief



Scalable with Zero Downtime

With modern applications and the ever-increasing amount of data being stored, availability is of the utmost importance. Kemp enhances the availability and performance of Dell EMC ECS next-generation software-defined storage therefore maximizing customers' infrastructure investment. Dell EMC ECS and Kemp LoadMaster load balancer deliver a cloud storage platform that supports the storage, manipulation, and analysis of unstructured data with massive scale. Kemp LoadMaster hardware and virtual appliances are now available from Dell EMC through the Select Partner Program.



Kemp LoadMaster and Dell EMC ECS solution

Dell EMC recommends Kemp LoadMaster to customers to provide enterprise-level high availability and performance expected in today's market. When non-interrupted access to data stored in Dell EMC ECS is required, Kemp LoadMaster provides advanced application-level health checking to ensure the ECS nodes are healthy and ready to accept connections. In the event a node is offline whether unscheduled or during a maintenance window, Kemp LoadMaster will mark that node as down and redirect traffic to the other healthy nodes. Using SSL/TLS offloading will provide greater performance by terminating the secure connection on the Kemp LoadMaster and sending traffic back to ECS unencrypted. This configuration eliminates the encryption processing overhead on the ECS nodes and places it on the Kemp LoadMaster which is optimized to handle this traffic. Organizations that have adopted IPv6 can leverage Kemp LoadMaster as a gateway to allow for communication between the end points over IPv6 and Dell EMC ECS over IPv4. This translation simplifies deployments in these mixed environments and still delivers the same high availability and performance.

Kemp LoadMaster Site Resilience

Providing high availability within a single Dell EMC ECS cluster is essential, but it is not uncommon for organizations to distribute data across multiple clusters. These clusters are often in different data centers, deployed in an active/active configuration. Kemp LoadMaster Global Server Load Balancing (GEO) provides intelligent geographic distribution of traffic based on proximity which provides better performance and, in the event of a complete site failure, directs all traffic to a healthy datacenter. Kemp GEO offers scheduling methods for directing traffic to sites hosting ECS clusters, meeting the needs of every organization.

- Round Robin
- Weighted Round Robin
- Fixed Weighting
- Real Server Load
- Proximity
- Location Based

Federal Information Processing Standards

Kemp is fully aware of federal mandates and public laws and has incorporated a FIPS 140-2 certified software encryption module into our core operating system and made it available to all LoadMaster load balancers/application delivery controllers. This has become mandatory across most verticals to deliver the security and compliance for today's modern applications.

Why Kemp LoadMaster

Kemp powers always-on application experience (AX) for enterprises and service providers. Kemp's agile per-app ADC/load balancing consumption model, predictive analytics, and automated issue resolution, radically simplifies how customers optimize, analyze and secure their applications across private and multi-cloud environments. Enterprise, healthcare, government or service provider customers running Dell EMC ECS benefit from enhanced performance and availability by including Kemp LoadMaster in their environment.

Technical Features

- High Availability
- Multi Cluster/ Site Resilience
- Greater performance with SSL/ TLS Offloading
- Intelligent application level health checking
- IPv6 to IPv4 translation

Benefits

- Maximize value from infrastructure investment
- Improve service availability and resilience
- Enable cloud storages scalability