Scality RING

* Scality RING is a software used to create a storage unit for data with an attached storage space.
* RING has a scalability beyond petabytes.
* It uses x86 servers and has a multi-application form of design.

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| Website | http://spring.io |
| Open Source/Proprietary | Proprietary |
| Source Code | NA |
| License | Hewitt License |
| Brief Description | Scality RING is a software used to create a storage unit for data with an attached storage space |

Key Features

1. High Scalability and Performance: It has a scalability beyond petabytes which also increases its performance.
2. S3 compatibility: It is complete with Amazon S3’s API which helps in data storage.
3. Geo-distribution: It is distributed throughout the world and can be accessed from any system. Scality RING also has a wide amount of users.
4. Multi-Cloud system: It helps store data in private or public cloud or a hybrid of both
5. Data Security: It protects the data and keeps it secure from unauthorized access.
6. Data durability and availability: It uses Erasure code and other mediums to keep the data available at all times.

Architecture

1. RING: It is the core component of the software. It has multiple nodes (or servers) on which it stores data.
2. Nodes: Nodes here work as servers that are independent storage units and they communicate with other nodes to access and store data.
3. Object: Scality RINF uses objects thar have a specific interface that hold a certain set of data.
4. Erasure Code: Scality RING uses Erasure Code as a medium for Data security and availability. If one or more nodes stop working, the data can be reconstructed using the remaining nodes.

Technical details

* Connectors: Interface between the application and the user
  + Native web interface
  + Amazon S3 compatibility interface
* Storage Nodes: Block of units in the pool
  + High scalability
  + Data Security

Other Information

* Scality RING is a software that serves as a storage unit.
* There are other software that work like Scality RING such as Ceph, MinIO, OpenIO
* 9.99% or 99.9999% Availability.