

# A Load Balancing Framework for Clustered Storage Systems

Daniel Kunkle and Jiri Schindler

Northeastern University and NetApp Inc.

**Abstract.** The load balancing framework for high-performance clustered storage systems presented in this paper provides a general method for reconfiguring a system facing dynamic workload changes. It simultaneously balances load and minimizes the cost of reconfiguration. It can be used for automatic reconfiguration or to present an administrator with a range of (near) optimal reconfiguration options, allowing a tradeoff between load distribution and reconfiguration cost. The framework supports a wide range of measures for load imbalance and reconfiguration cost, as well as several optimization techniques. The effectiveness of this framework is demonstrated by balancing the workload on a NetApp Data ONTAP GX system, a commercial scale-out clustered NFS server implementation. The evaluation scenario considers consolidating two real world systems, with hundreds of users each: a six-node clustered storage system supporting engineering workloads and a legacy system supporting three email servers.

## 1 Introduction

The basic premise of clustered storage systems is to offer fine-grained incremental capacity expansion and cost-effective management with performance that scales well with the number of clients and workloads [1,2,3,4,5,6]. To address load imbalance, most previously proposed architectures either dynamically redistribute individual data objects and hence load among individual nodes in response to changing workloads [2,5], or use algorithmic approaches for randomized data allocation (e.g., variants of linear hashing [7]) to distribute workload across cluster nodes [4,6].

However, the first approach is not well suited for enterprise storage systems. First, deployed systems typically collect only cumulative statistics over a period of time [8,9], as opposed to detailed traces with per-request timings [10,11]. Yet, systems with data migration at the level of individual objects [2,5] typically use techniques that require detailed traces to make informed decisions [12]. Second, workloads do not always change gradually. They often do so in distinct steps, for example, during consolidation when an existing system inherits a legacy system workload.

A complementary approach to balancing load across system components is to use offline solvers [8,13]. They typically use a variant of the bin-packing or knapsack problem [14] to find a cost-efficient system configuration (solution). They require only a high-level workload description [15] and capacity or performance system model. While such solvers have been shown to be effective for building an enterprise-scale system from the ground up, they are less suitable when already deployed systems grow or experience workload changes over time. Previous work proposed to iteratively apply

# A Load Balancing Framework For Clustered Storage Systems

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