

Alluxio

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1 Introduction

1.1 Challenges with the Existing Ecosystem

- Work Duplication;
- Data Duplication;
- Performance;
- Management and Administration.

1.4 Alluxio Ecosystem

1.5 Contributions

2 Lineage in VDFS

Lineage circumvents the limitations of replication by **re-executing the operations that created the output.**

Challenges:

- *bounding the recomputation cost for a long-running storage system.*
- *how to allocate resources for recomputation*