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WEKA Filesystem

A brief introduction

2/7

Table of contents

- 1 Introduction
- 2 Deployment and usage
- 3 Plenar discussion

What is WEKA FS

- A commercial platform solution for IO operations focussed on SSD/NVMe
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- Consists of a server/client system
 - Server: Holds the WEKA Cluster Software and Disks
 - ▶ Client: Mounts the Cluster FS with the help of a Frontend Client
- Uses it's own IO Stack, bypassing Kernel, direct POSIX access
- Has interfaces for NFS, SMB and S3 access

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Schematics

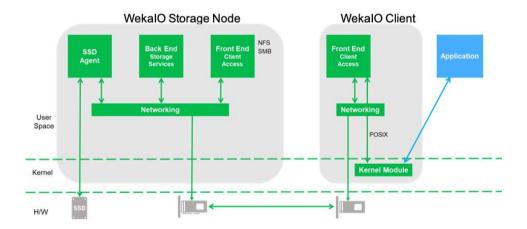


Image source: https://weka.io

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Pros/Cons

- Pros
 - ▶ No extra Hardware Storage needed
 - Extremely high IO performance
 - ▶ Highly scalable
- Cons
 - Commercial Software
 - Licensing costs
 - Problems with Infiniband in Version 4

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Live Presentation of Deployment

Now we will deploy a WEKA installation from scratch on 8 Compute Nodes with 2 NVMe Drives per Node and a short Benchmark run.

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Plenar discussion

- What problems could occur with our Installation?
- How could we possibly fix these problems?
- Other questions?

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