



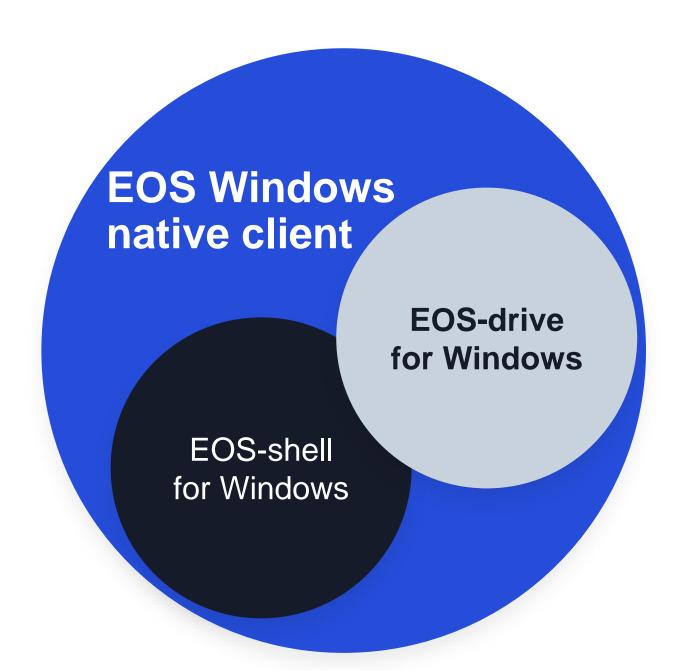
# EOS-drive for Windows: Architecture and file transferring system

Ivan Arizanović Gregor Molan Branko Blagojević

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- Introduction
- Architecture of EOS-drive
- File transferring system in EOS-drive
- File transferring system testing
- Summary





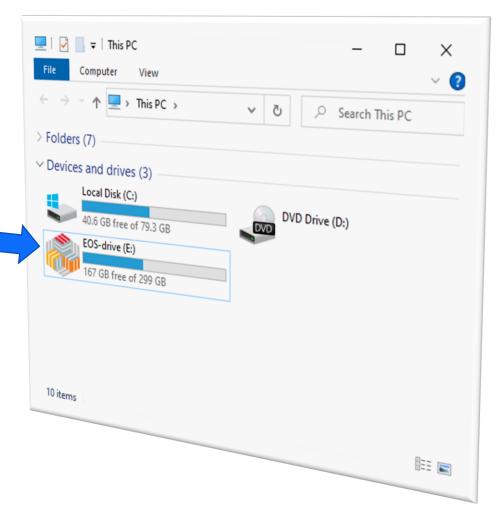
# Introduction

#### **EOS** Windows native client:

- EOS-shell
  - EOS via command line interface
- EOS-drive
  - · EOS filesystem as a Windows disk drive

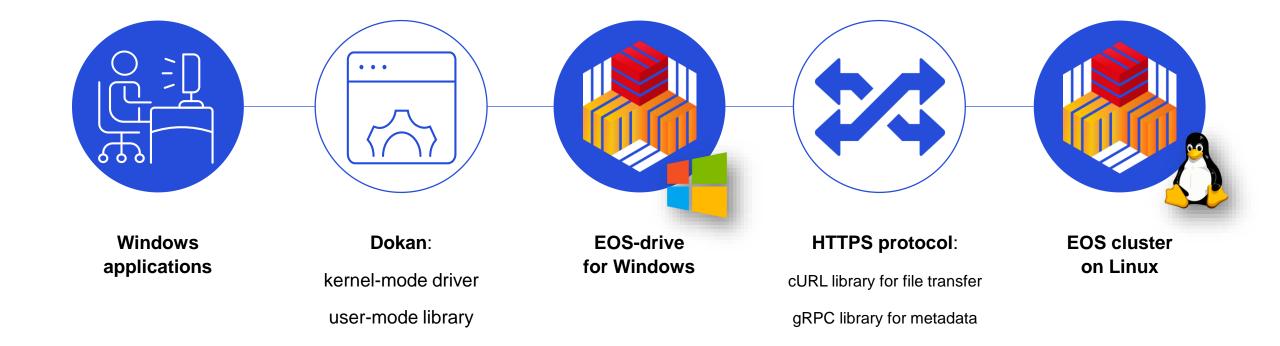
# **EOS Windows** native client **EOS-drive** for Windows **EOS-shell** for Windows

## Introduction





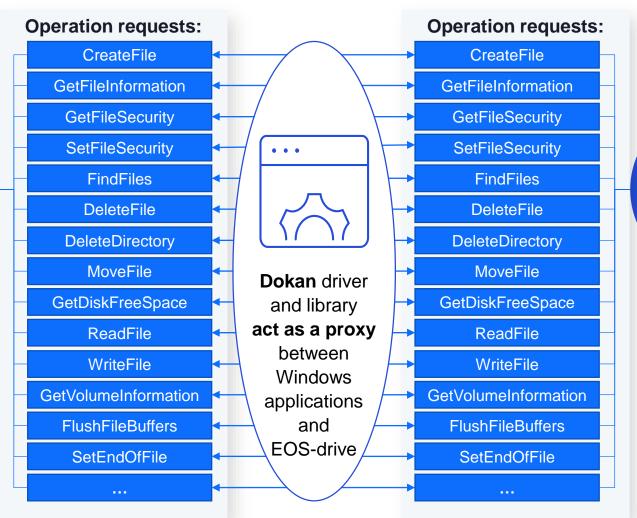
#### **Architecture**

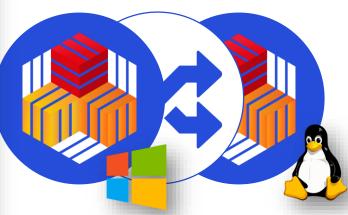


#### **Architecture**



**Windows** applications



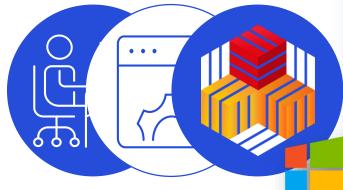


**EOS-drive** 

for Windows

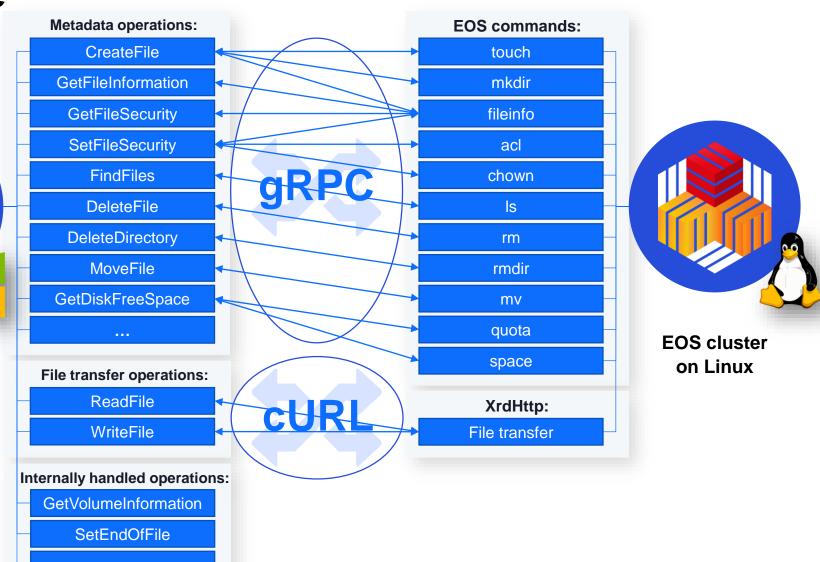


#### **Architecture**

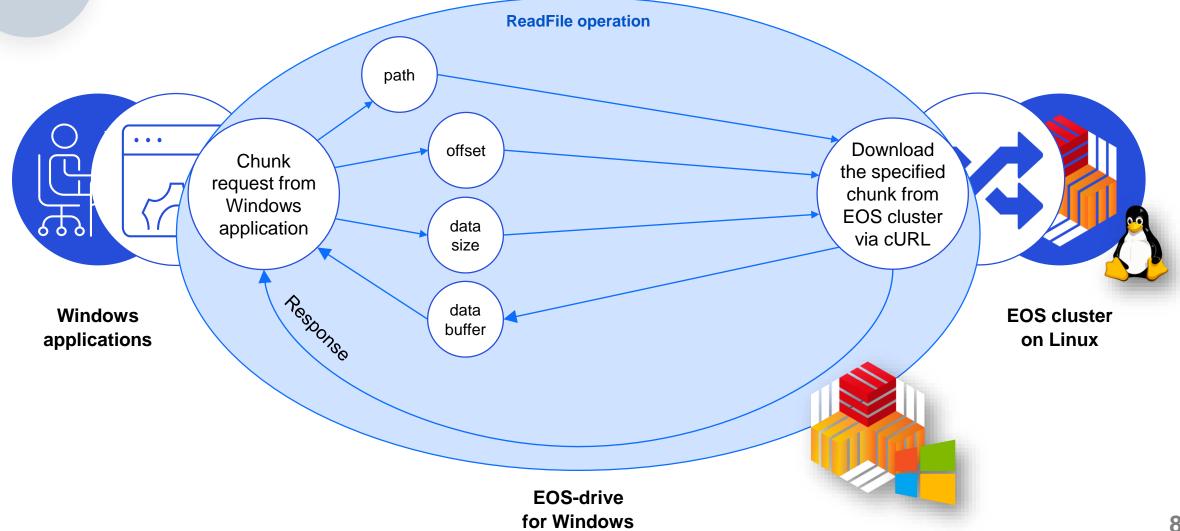


Windows applications

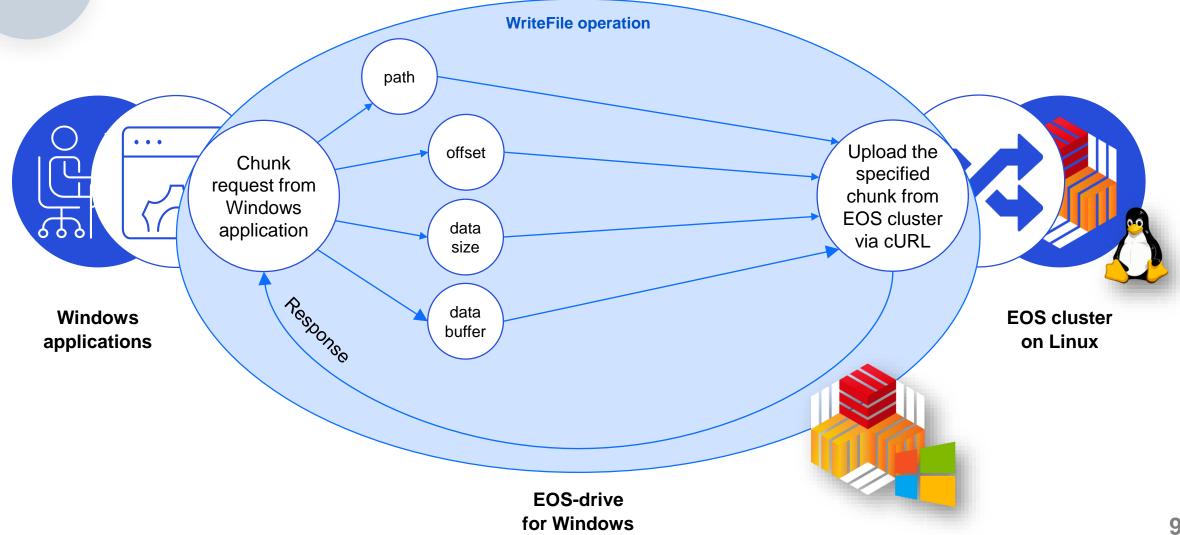
**EOS-drive** for Windows



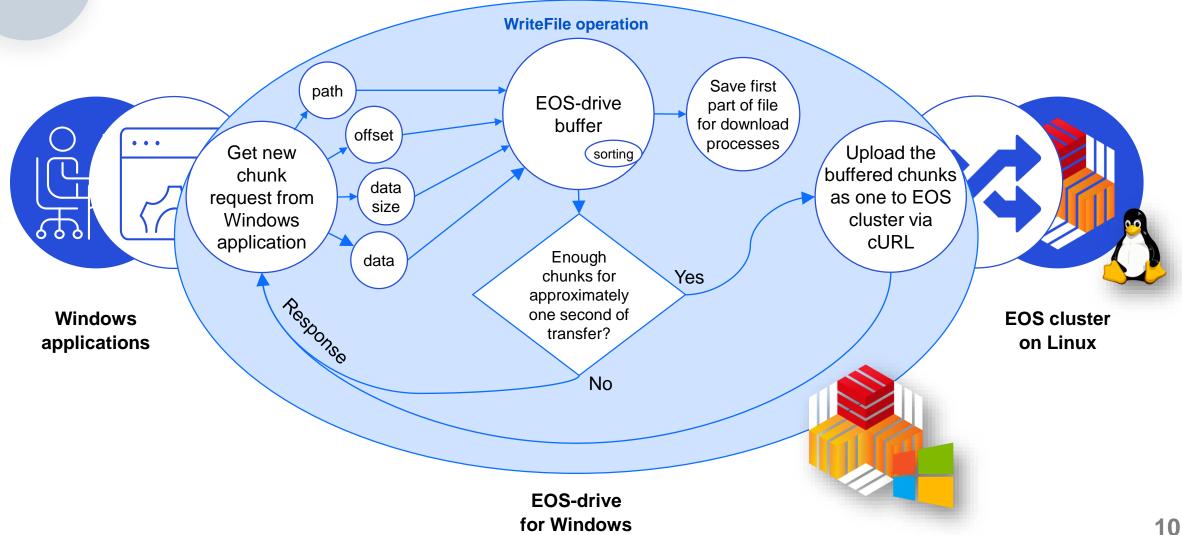
### File transferring chunk by chunk for downloading



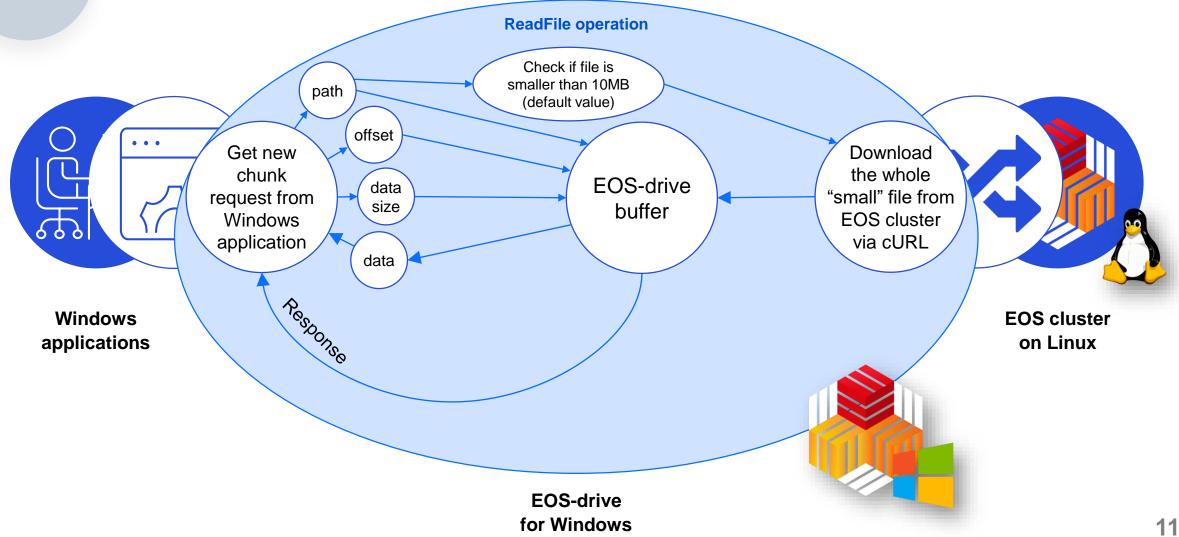
## File transferring chunk by chunk for uploading



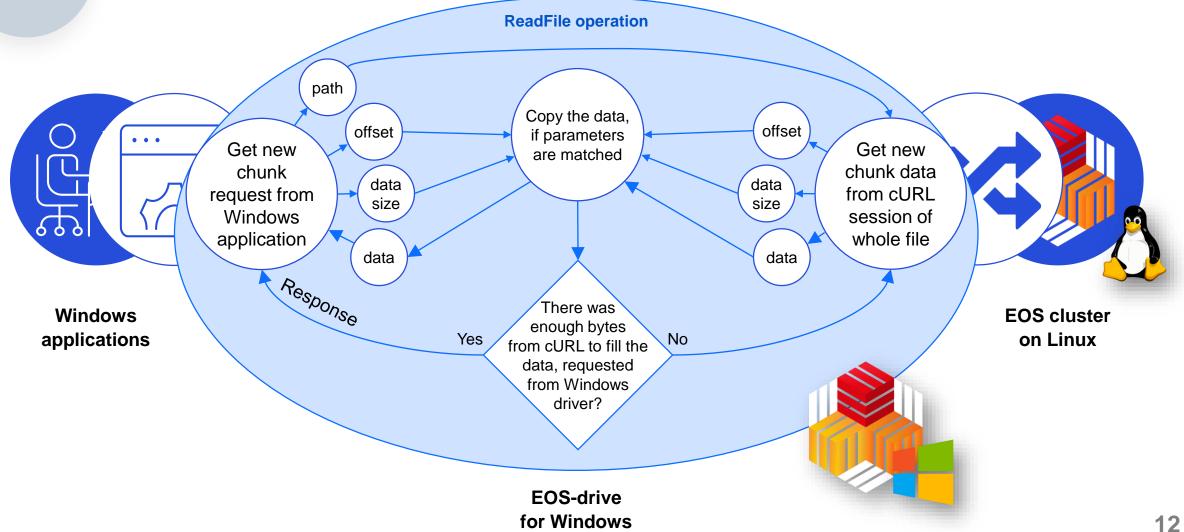
# File transferring with EOS-drive buffer for uploading



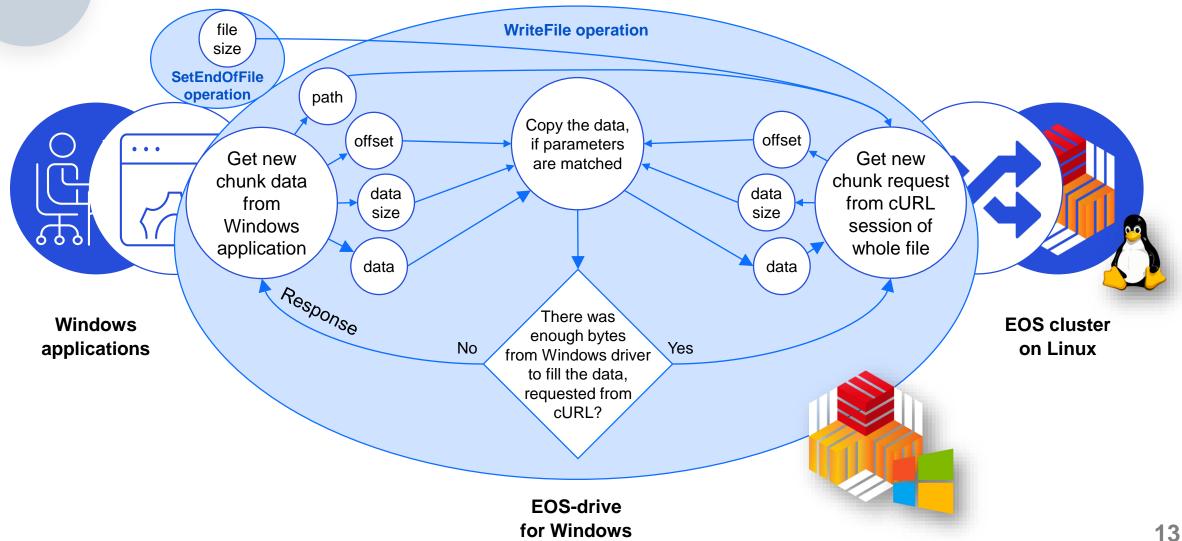
## File transferring with EOS-drive buffer for downloading



#### File transferring with single-session for downloading



#### File transferring with single-session for uploading





#### File transferring system testing

#### **Testing of EOS-wnc at Comtrade:**

#### **Testing of EOS-wnc at CERN:**



The number of transfer sessions per file, plays a leading role in performance of EOS-drive.



#### **Summary**

01.

Single-session transfer

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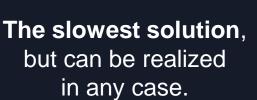
The fastest solution, but it needs sorted chunk requests, it cannot be used for parallel transfer and it needs filesize parameter for uploading processes. **02.** 

Transfer with the EOS-drive buffer



Middle solution per speed, but it is limited per number of parallel files to save memory resources. 03.

Transfer chunk by chunk









# nankvou

**EOS-drive for Windows:** 

Architecture and file transferring system

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