



# An OBJective Competition

A Quick Look at File vs. OBJ Performance

**DELL**Technologies

# And our broad portfolio from core to cloud

## Data Protection & Cyber Recovery



PowerProtect DD Series Appliances  
PowerProtect Data Manager  
Data Protection Suite

## Modern Storage



PowerMax  
PowerStore  
Unity XT  
PowerVault  
PowerFlex

PowerScale  
ECS  
Streaming Data Platform

## Hyperconverged & Converged Infrastructure



VxRail  
PowerFlex  
Azure Stack family  
vSAN Ready Node  
VxBlock

## NAS<sup>1</sup>

Storage Software<sup>2</sup>

Unstructured Storage<sup>1</sup>

Hyperconverged Systems<sup>3</sup>

All-Flash and Hybrid Flash Arrays<sup>1</sup>

External Enterprise Storage Systems  
(Entry, Midrange and High-end)<sup>1</sup>

Data Replication & Protection Software<sup>4</sup>

Data Protection Appliance & Software<sup>5</sup>

Purpose-Built Backup Appliance<sup>6</sup>

Converged Systems<sup>3</sup>

Worldwide rankings, Q2CY21

<sup>1</sup> IDC WW Quarterly Enterprise Storage Systems Tracker, 2021Q2, September 9, 2021, Vendor Revenue  
<sup>2</sup> IDC WW Quarterly Storage Software & Cloud Services QView, 2021Q2, September 9, 2021, Vendor Revenue  
<sup>3</sup> IDC WW Quarterly Converged Systems Tracker, 2021Q2, September 16, 2021, Vendor Revenue  
<sup>4</sup> IDC 1Q21 Storage Software and Cloud Services Qview  
<sup>5</sup> Based on combined revenue from the IDC 1Q21 Purpose-Built Backup Appliance (PBBA) Tracker, with select Storage Software segments from the 1Q21 Storage Software and Cloud Services Qview  
<sup>6</sup> IDC WW Quarterly Purpose-Built Backup Appliance Tracker, 2021Q2, September 9, 2021, Vendor Revenue  
Note: Unstructured Storage includes object-based storage (excluding HCI) and Scale-Out NAS (excluding HCI) combined

A P E X

Dell Technologies

# Dell Technologies' ECS and PowerScale

## ECS – Object Store

- Industry leading Object storage appliance
- Native OBJ store, not SW defined
- Integrated geo replication
- Highly scalable

## PowerScale – File Store

- All Flash or all disc options for tiering and optimal spend
- Multi-protocol in and out
- Multi Tenancy and extreme concurrency



# The Curiosity

## Is OBJ faster than File?

# The Test

## Resnet-50

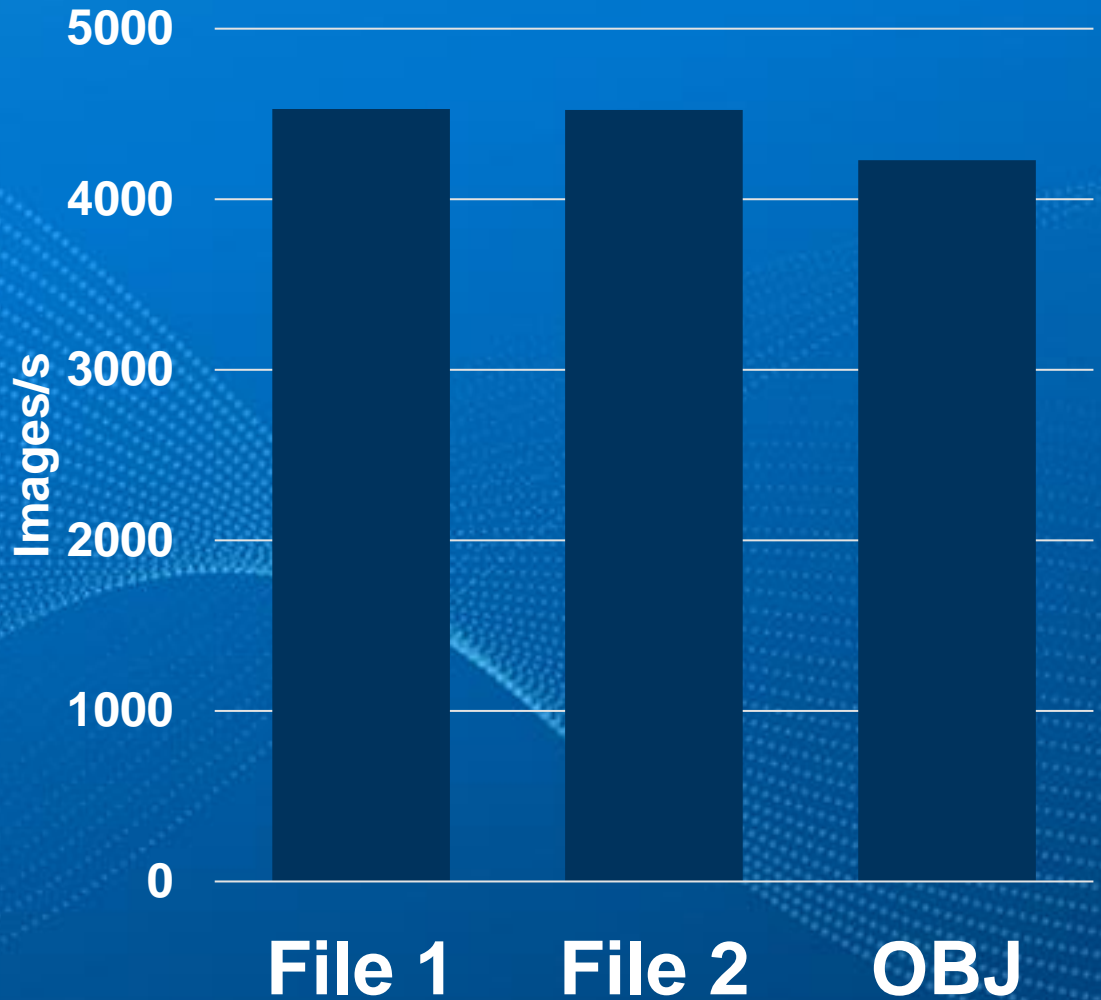
- Easy to setup for both File and OBJ
- Provides a heavy load for storage

# The Eq.

## All-Flash ECS vs. All-Flash PowerScale

# The Results

For the same single node testing, OBJ performed admirably and was within a few % pts of the File systems performance



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\* File and Object systems used all flash disk models  
\* Not STAC Benchmarks

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