

# Enterprise storage solutions Software-defined storage



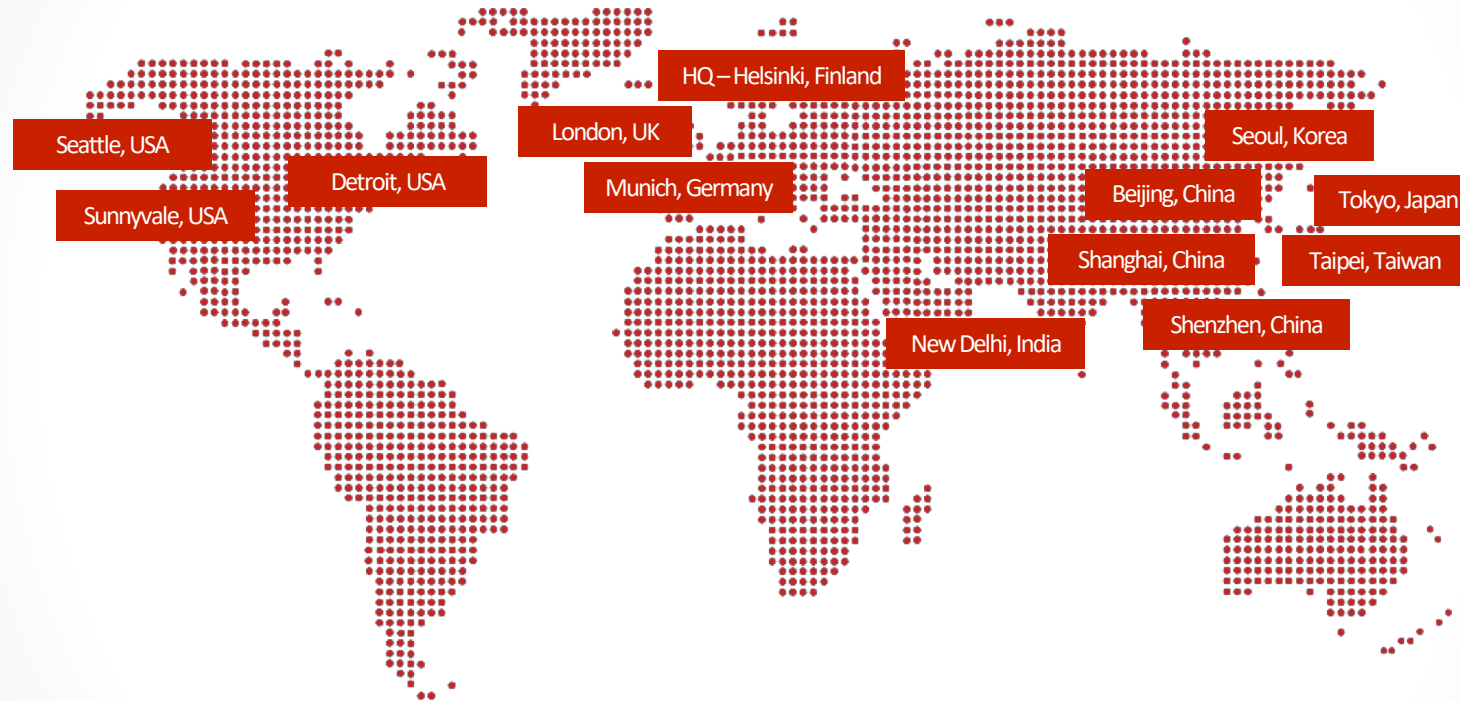
MooseFS  
by Tuxera

TUXERA

A person is shown from the side, holding a smartphone up to take a picture of a cityscape at sunset. The sun is low on the horizon, creating a warm, golden glow over the city. The person's hands are visible, holding the phone steady. The city below is a dense grid of buildings, with some lights starting to appear as the sun sets.

Every second 3 new devices with  
**Tuxera's software inside** are  
released on the market.

# We're a global company with global recognition



Tuxera offices



# What we make



## Interoperability for home and business

- Tuxera NTFS for Mac



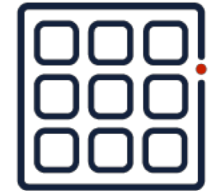
## Enterprise Storage

- MooseFS by Tuxera
- Tuxera SMB
- Tuxera IOT Gateway



## High-performance internal storage

- Tuxera Flash File System



## Storage connectivity suite

- Microsoft exFAT by Tuxera
- Microsoft FAT by Tuxera
- Microsoft NTFS by Tuxera
- Tuxera FAT+
- Tuxera APFS
- Tuxera HFS+

# Software-defined storage

**An agile way of building  
the storage infrastructure**

- Addresses the fragmentation concerns
- Eliminates vendor locking
- Tailored for the use case
- Reduces the cost of storage infrastructure

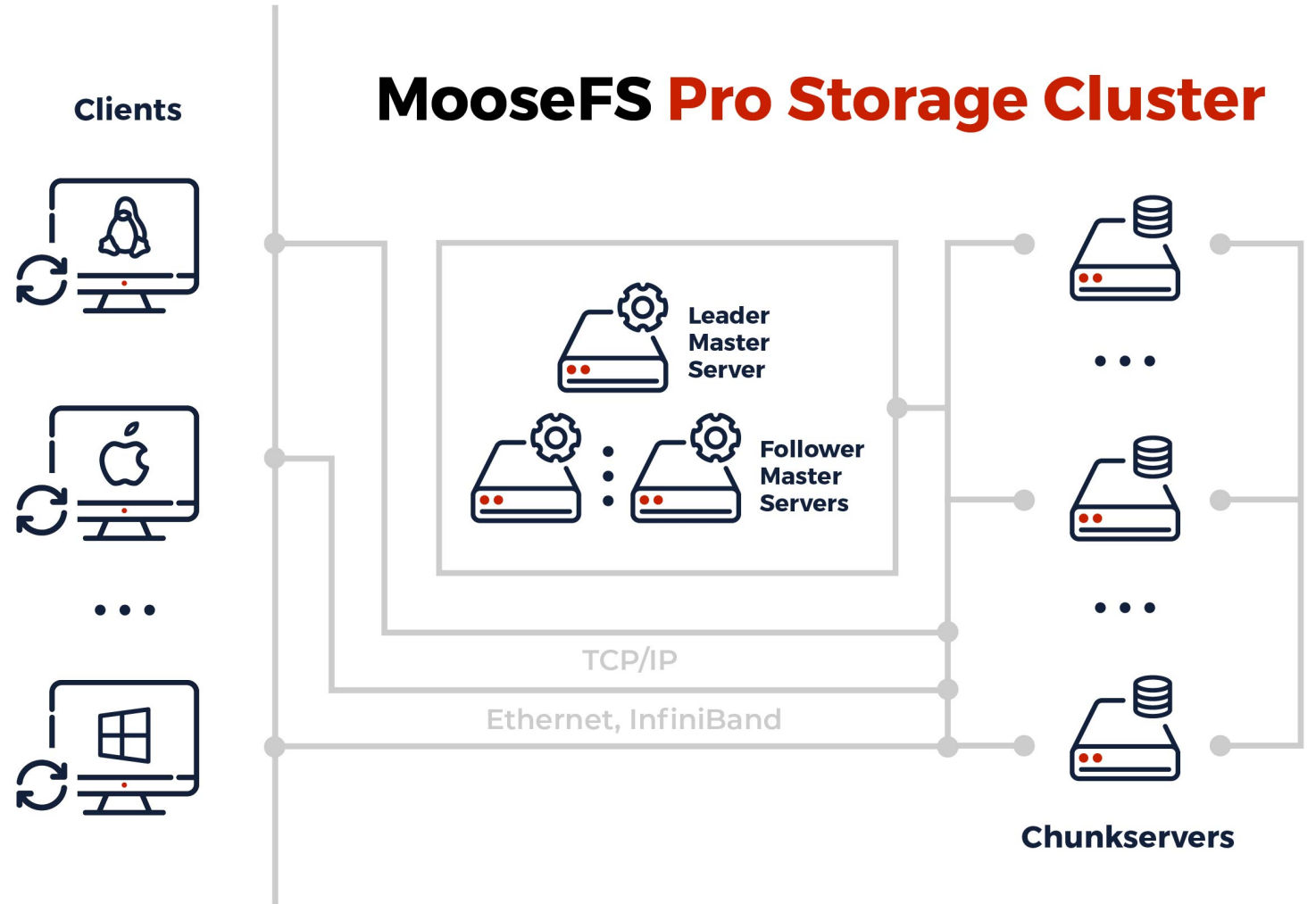
# What is MooseFS by Tuxera?

**Fault-tolerant, distributed parallel file system for mission-critical data.**

- Big data support
- Virtually limitless storage for demanding distributed workloads

# How MooseFS by Tuxera works

Allocates data over virtually unlimited servers, which act as one large disk.



# MooseFS by Tuxera benefits



## High availability

- No single point of failure (**SPOF-less configuration**)
- **Metadata redundancy** with two or more copies on physically redundant servers
- **Distributed user data** redundantly spread across storage servers



# MooseFS by Tuxera benefits



## High performance

- **High-speed I/O operations** across the entire storage cluster
- **Parallelism**—read/write in parallel threads of execution on many storage nodes at once
  - no single central server
  - no single network connection bottlenecks

# MooseFS by Tuxera benefits



## Hardware independence

- **Supports all major disks and interfaces:** SATA/SAS, SSD/HDD, NVMe
- **Turnkey solution** for any hardware platform running a POSIX-compliant OS (Linux, MacOS, FreeBSD, etc.)
- Build storage clusters with **commodity x86-64 components**
- **Mix and match** older and newer hardware, or different manufacturers

# MooseFS by Tuxera benefits



## Scalability

- **Scales up to 16 exabytes** (~16,000 petabytes) with more than 2 billion files
- Nearly **linear cost of hardware** with storage size growth

# MooseFS by Tuxera benefits



**Flexible  
deployments**

- **All-Flash and hybrid storage** setup supported
- Deploy on-premises, in the cloud, hybrid, or geographically distributed

# Technical features

- Redundancy
- Metadata dumps
- Compute on data nodes
- Fast upgrades and disk recovery
- Atomic snapshots
- No RAID arrays
- POSIX compliance
- Erasure coding
- Global trash
- Quota limits

# Use cases

- **Clustering**
  - **Hosting**
  - **Big data analytics**
  - **Supercomputing**
- **Video streaming**
  - **Post production**
  - **Broadcasting**
  - **Backup and archiving**

# Legacy storage use case

## Get remarkably low total cost of ownership

- Deploy on legacy storage hardware, for example out-of-support Isilon
- Experience significant performance gains
- Make the hardware relevant again
- Expand the legacy cluster with new machines, creating a tiered storage solution
- We deliver software + hardware support, so you can take the cluster into production

# MooseFS by Tuxera storage cluster dashboard





# Thank you!

 @Mrasanen

 [markku@tuxera.com](mailto:markku@tuxera.com)