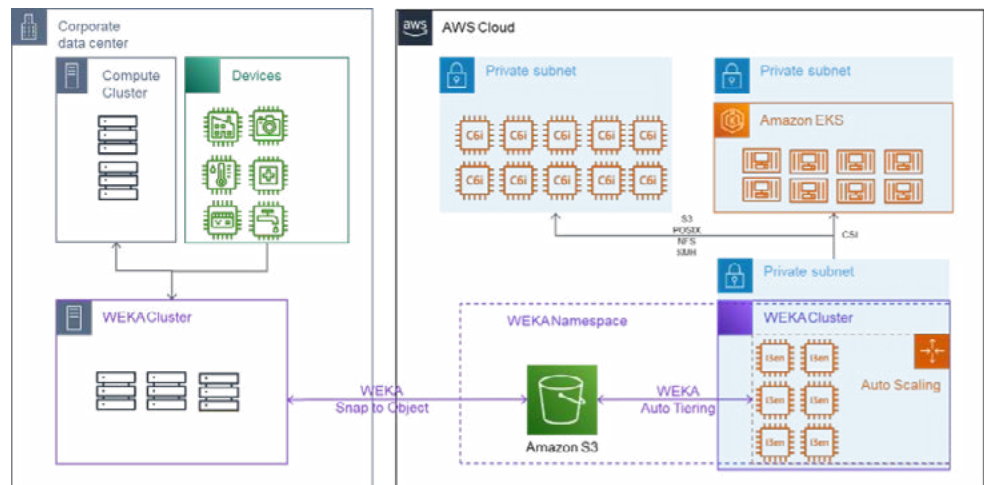# WEKA on AWS

Reduce cloud storage costs by 50%

Accelerate your AWS Workloads

The WEKA® Data Platform removes the barriers to data-driven innovation through its advanced software architecture optimized to solve complex data challenges and streamline the data pipelines that fuel AI, ML, and other modern performance-intensive workloads. WEKA combines on-premises performance and cloud scalability in a single software-defined approach to data.

- ✓ Accelerate AI model training by 10x
- ✓ Burst Data Analysis to the Cloud
- ✓ Scale your Data Up and Down with Workloads

- ✓ Accelerate Data Pipelines in AWS by 90%
- ✓ Enable Hybrid Cloud Workflows In AWS
- ✓ Rapidly Migrate Data to AWS
- ✓ Increase GPU Utilization to 80%

WEKA on AWS: Sample Architecture

You can deploy WEKA software on a cluster of Amazon EC2 i3en instances with local SSD to create a high-performance storage layer.

The WEKA software extends the single namespace to an Amazon S3 bucket for capacity storage at the lowest cost. The same software runs in the cloud and in your on-premises data center. You can capture data from local devices like microscopes, imaging machines, video capture, or IOT devices across any storage protocol (S3, POSIX, NFS, S3, or CSI). You can immediately analyze data on-premises, or you can quickly spin up an entire WEKA environment in AWS for cloud bursting, and scale it back down when not in use so you never spend money on resources you don't need.

How Customers use WEKA on AWS

Customers across diverse industries turn to WEKA to enable their most demanding workloads in AWS and their on-premises data centers. The unique software-defined data platform provided by WEKA enables seamless hybrid cloud deployments, migration from on-prem to cloud, and new cloud-native deployments.

Media & Entertainment

Use cases: Post-production, VFX, Color Correction, Production studio in the cloud

- ✓ Burst VFX, rendering, and post-production workflows to AWS
- ✓ Deliver 120 frames per second from the cloud
- ✓ Reduce project turnaround times by 90%
- ✓ Reduce storage infrastructure costs by up to 655%

Life Sciences

Use cases: Genomics Processing, Drug Discovery

- ✓ Burst drug discovery analysis to the cloud
- ✓ Reduce file storage costs by 65%
- ✓ Reduce genomics and drug discovery workflows from months to days.

HPC

Use cases: Scientific Analysis, Geospatial Modeling, Design Automation

- ✓ Reduce modeling times from months to hours
- ✓ Eliminate over-provisioning of storage to meet performance targets
- ✓ Optimize cloud utilization with storage that scales up and down

ML/AI

Use cases: Generative AI, Natural Language Processing

- ✓ Build ML/AI models at exabyte scale at a terabyte cost post
- ✓ Accelerate ML modeling by 7x or more.

WEKA on AWS: Specs

Virtual Machines	Amazon EC2 i3en	No. of files or directories	**Up to 6.4 trillion files**
Cluster Size (VMs)	6 to Hundreds	No. of files in a single directory	**Up to 6.4 billion**
Object Storage	Amazon S3	Capacity with object store	**Up to 14 Exabytes**
Protocols	POSIX, NFS, SMB, S3, CSI	No. of File Systems	**Up to 1,024 per Cluster**
Automation	Hashicorp Terraform AWS CloudFormation AWS Marketplace	Snapshots	**Up to 24,576 Readable Snapshots (14,336 IF ALL WRITABLE)**

Get started with WEKA in the AWS Marketplace today!

WEKA

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