

# CTERA and Varonis: Complete Security in a Global File System

## A flexible and secure path to file services modernization

**The CTERA-Varonis offering helps organizations secure their most valuable data**

Today unstructured data makes up [80% of all enterprise data](#) – and that number is growing. Traditionally, most files were maintained on storage mediums such as general-purpose file servers or dedicated network-attached storage (NAS) devices. Things have changed, though. Enterprises have gone global, employees have become mobile, and the ability to access and share files across different physical locations has become necessary for success.

The CTERA Enterprise File Services Platform enables centralized data access from any edge location or device without compromising performance or security. CTERA's global file system technology delivers unlimited file storage capacity, allowing organizations to replace and consolidate legacy NAS while still maintaining the traditional access protocols of file storage infrastructure. Enterprises gain significant cost savings by leveraging cloud object storage for unstructured data growth. Distributed offices enjoy productivity gains through real-time multi-site file synchronization, and IT enjoys centralized visibility into all enterprise data.

In a distributed enterprise, the privacy and security of file data is more paramount than ever. Files contain sensitive enterprise data, such as intellectual property or customer information, and they must be protected from theft, leakage, and loss.

The Varonis Data Security Platform secures data from unauthorized access and cyberthreats by finding sensitive information across on-premises and cloud data stores, limiting access to it, and analyzing data activity for abnormal behavior or indications of compromise.

Varonis puts data activity from CTERA into context with additional information such as, data classification, authentication events, and network activity. With this full picture, it is easy to investigate threats and prioritize risk reduction.

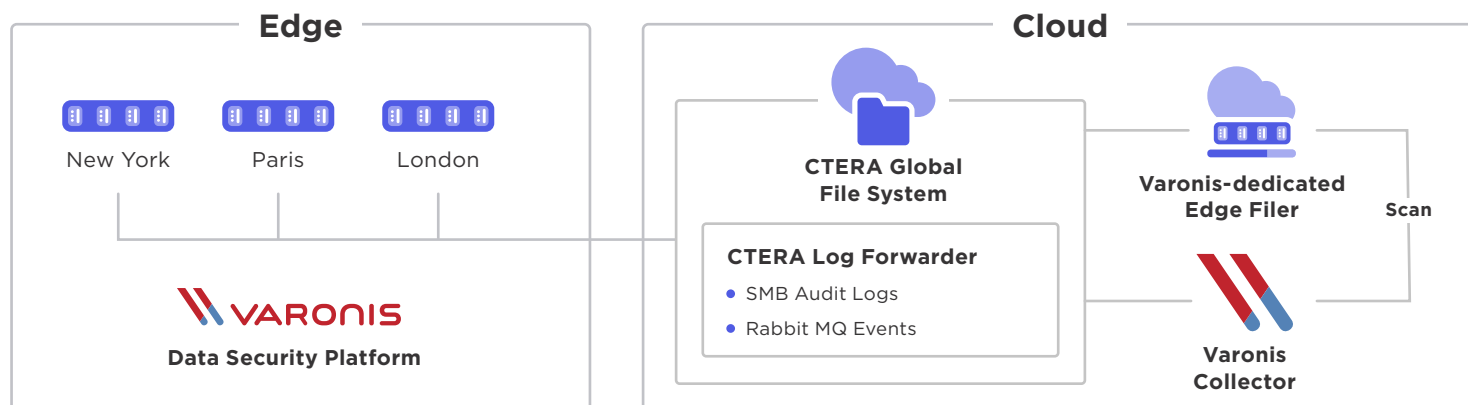
Together, CTERA and Varonis deliver an integrated solution for securing data stored in a global file system.

## A Security-First Approach to Modern File Storage

**The CTERA-Varonis integration enables:**

- IT departments to gain complete control over unstructured data
- Data classification, including regulated data, sensitive data, and intellectual property
- Complete visibility into users, groups, and folder permissions
- Detailed audit trails of access events for compliance and forensics
- Recommendations on where excess permissions can be removed and the ability to simulate changes without affecting production data
- Security analytics with deep data context
- Customizable dashboards to monitor data risk

## Solution Architecture



## Key Advantages



### 100% In-Firewall

Deploy in an on-premises datacenter or in a virtual private cloud (VPC), maintaining full control over all data, security, and access rights



### Zero-Trust Security

Rather than granting privileged object storage credentials to edge devices – considered to be inherently untrusted – each direct request is approved and digitally signed by a centralized security authority.



### Rapidly Detect and Respond to Threats

Use baseline behavioral profiles created by Varonis' machine learning algorithms to automatically detect abnormal user behaviors. Trigger automated responses to stop attackers in their tracks and mitigate any potential damage



### Source-Based Encryption

Files are encrypted at the source using AES 256-level encryption and also when transmitted over the network (TLS/SSL).



### Private Key Management

Encryption keys are created and managed by customers and are never accessible to a third party



### Strong Authentication

CTERA supports the most advanced user authentication and authorization schemes, including Active Directory (AD), two-factor authentication, and smartcards/CAC



### Full ACL Support

Previously-defined access control lists (ACLs) are easily migrated and enforceable both at the edge and in the cloud



### Full Visibility and Control

Control file access rights at a granular level to minimize overexposure and reduce the attack surface, protecting sensitive data from potential threats

## About CTERA

CTERA is the edge-to-cloud file services leader and enables organizations to modernize file storage. CTERA's global file system technology provides multi-cloud data management with full control over data residency, military-grade security, and performance. CTERA is trusted by the world's largest companies, including leading industrial, media, and healthcare organizations, as well as the U.S. Department of Defense and other government organizations worldwide.

## About Varonis

Varonis is a pioneer in data security and analytics, specializing in software for data protection, threat detection and response, and compliance. Varonis protects enterprise data by analyzing data activity, perimeter telemetry, and user behavior; prevents disaster by locking down sensitive data; and efficiently sustains a secure state with automation.