Hitachi Vantara

Hitachi Content Platform Anywhere Enterprise

Secure File Services for Government and Defense

Military-Grade Global File System Ensures Full Data Availability and Privacy for Mission Owners

Secure Data Management for Government and Military Organizations

The modernization of file services and data storage is a major priority for federal and defense agencies as they embark on digital transformation initiatives. These organizations aim to leverage cloud technologies to accommodate massive data growth, securely share files across various locations, and gain new insights from data analytics.

Hitachi Content Platform Anywhere Enterprise backed by CTERA's global file system technology offers government organizations a modern, cloud-based solution for unstructured data management that delivers full privacy and protection for sensitive and classified data.
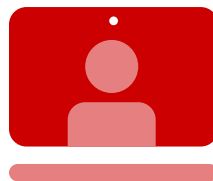
Our technology allows federal and defense agencies to deploy private file services that deliver the same resiliency, productivity, and elasticity as civilian cloud-based services, while meeting stringent military-grade data security requirements and mission-critical availability.

Built for Mission-Critical Requirements
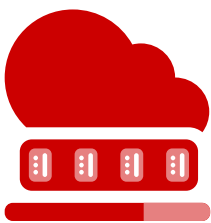
Common Data Repository with Caching Endpoints

Distributed presentation of file access (SMB/NFS) across remote locations with caching of frequently accessed data-sets for high speed access. The platform enables virtually unlimited local file storage and enables collaboration across multiple locations.

Secure and Efficient File Transfer

Take advantage of source-based de-duplication and compression, minimizing impact on available WAN bandwidth and reducing storage capacity in your cloud or data center by up to 90%. Work efficiently over high latency connections and move large files over long distances at high speeds.

Military-Grade Security

Deploy private file services that deliver the same resiliency, productivity, and elasticity as civilian cloud-based services, while meeting stringent military-grade data security requirements and mission-critical availability.

The platform utilizes a zero-trust architecture, 100% on-premises deployment model, CAC enablement, read-only audit logs, and much more.

Trusted by the Department of Defense to Protect Classified Data

100% In-Firewall
on premises, VPC or hybrid

FIPS 140-2 Certified
data encryption suited for top-secret files

Secure Data Transfer
files protected at rest and in-transit

Private Key Management
no 3rd party access to your keys

Strong Authentication
AD, 2-factor, smartcard, CAC/PIV

Seamless ACL Migration
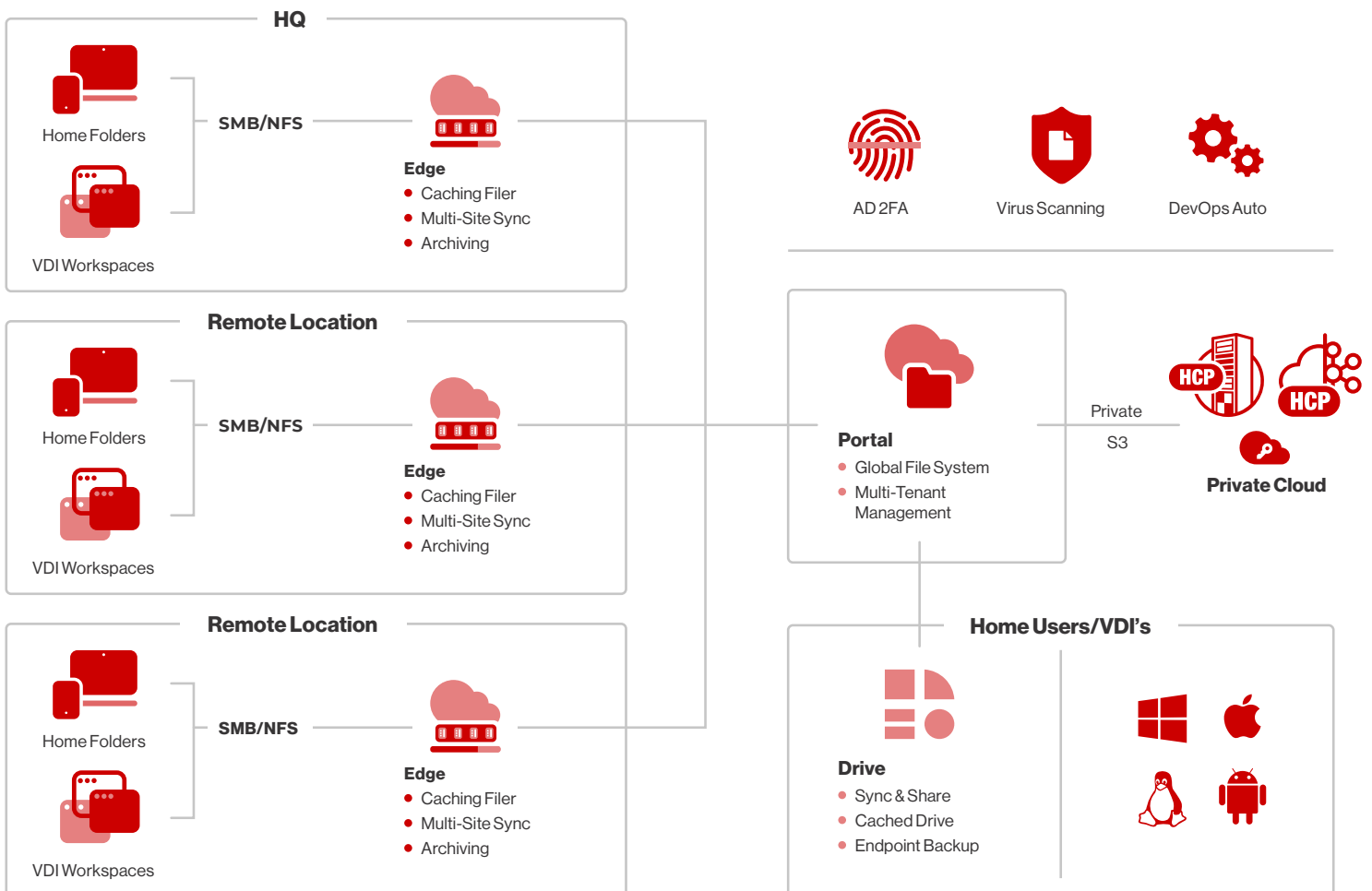NT-ACL enforcement over NAS and FSS

File Sharing Policy
control by file name, user, group

Zero-Trust Architecture
"Never Trust, Always Verify" for all edge devices

Architecture

HQ

Home Folders

VDI Workspaces

SMB/NFS

Edge
- Caching Filer
- Multi-Site Sync
- Archiving

Remote Location

Home Folders

VDI Workspaces

SMB/NFS

Edge
- Caching Filer
- Multi-Site Sync
- Archiving

Remote Location

Home Folders

VDI Workspaces

SMB/NFS

Edge
- Caching Filer
- Multi-Site Sync
- Archiving

AD 2FA

Virus Scanning

DevOps Auto

Portal
- Global File System
- Multi-Tenant Management

Private
S3

HCP

HCP

Private Cloud

Home Users/VDI's

Drive
- Sync & Share
- Cached Drive
- Endpoint Backup

Automated Data Migration

Seamless transfer of corporate file shares from legacy NAS systems such as NetApp, Dell EMC, and Windows Server with full preservation of existing file system structure and permissions.
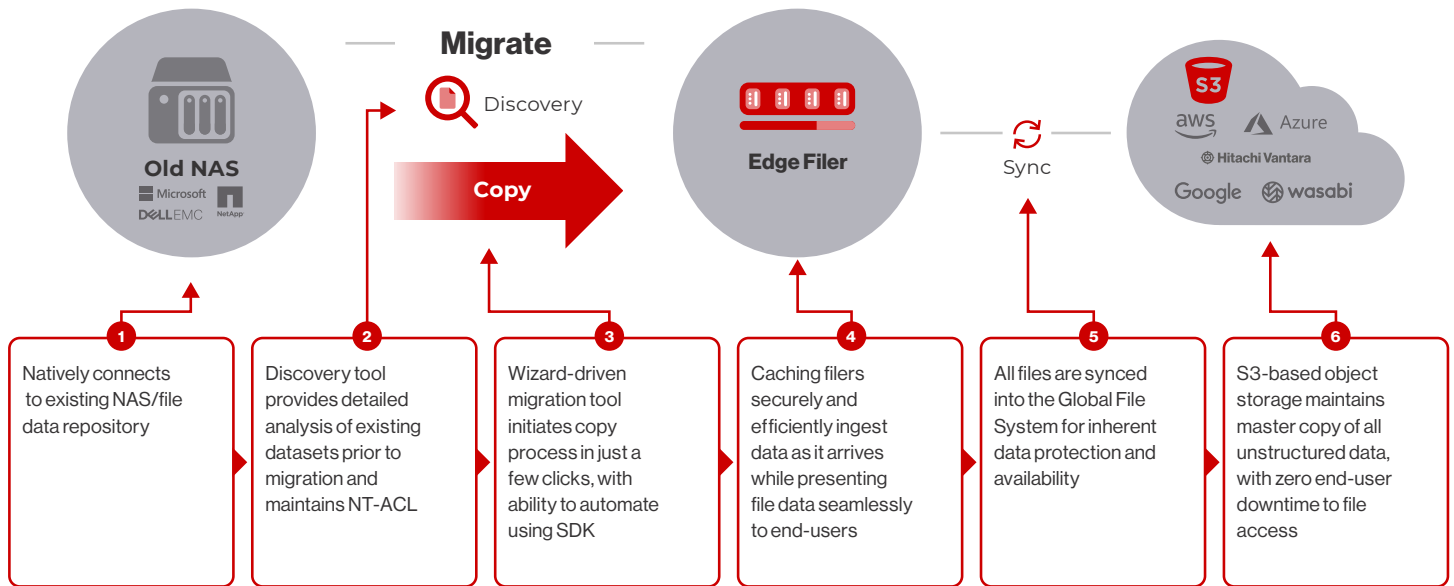
Data Visualization

Use advanced data discovery to gain insight into your file assets so you can easily plan and scope your cloud migration project.

Reduced Cost and Complexity

Built-in, easy-to-use migration tools accelerate deployment and eliminate the need for external servers, third-party software, or professional services teams.
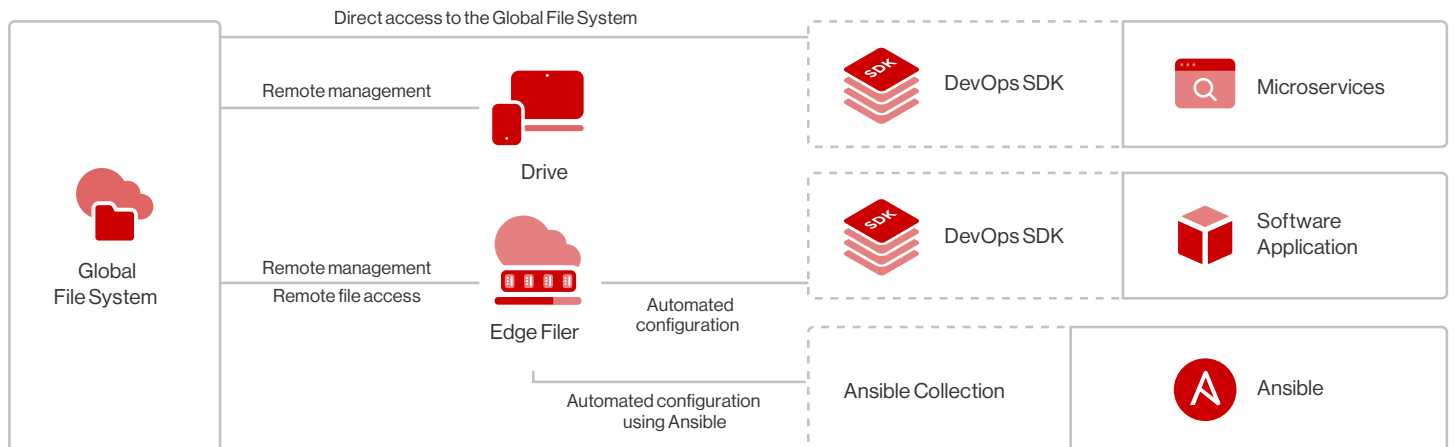
Migrate

Discovery

Copy

Old NAS
Microsoft NetApp
DELL EMC

Edge Filer

Sync

S3
aws   Azure
⊕ Hitachi Vantara
Google   wasabi

1 Natively connects to existing NAS/file data repository

2 Discovery tool provides detailed analysis of existing datasets prior to migration and maintains NT-ACL

3 Wizard-driven migration tool initiates copy process in just a few clicks, with ability to automate using SDK

4 Caching filers securely and efficiently ingest data as it arrives while presenting file data seamlessly to end-users

5 All files are synced into the Global File System for inherent data protection and availability

6 S3-based object storage maintains master copy of all unstructured data, with zero end-user downtime to file access

DevOps for Automation of Global File Services

SDK for Modern, Direct Access and File System Provisioning

Hitachi Content Platform Anywhere Enterprise backed by CTERA's global file system technology provides a robust SDK and APIs for building modern file system architectures, scaling file services to any size, and reducing multi-cloud gateway and storage provisioning down to minutes or even seconds.

Direct access to the Global File System

Remote management

Drive

Global File System

Remote management
Remote file access

Edge Filer

Automated configuration

Automated configuration using Ansible

SDK DevOps SDK

Microservices

SDK DevOps SDK

Software Application

Ansible Collection

Ansible

U.S. Air Force

A major command of the United States Air Force has modernized desktop and backup management processes and enabled secure file access and collaboration for users anytime, anywhere. The solution efficiently replicates sensitive data across a dozen highly distributed command bases for global file sharing, while maintaining a simple mapped-drive experience.

Smartcard authentication, advanced audit logs, and multi-tenant architecture ensure rigid compliance with security protocols, while data migration tools allowed the major command to seamlessly migrate existing file shares, including folder structure and ACLs, to the solution.

U.S. Navy

The United States Navy uses global file system technology to enable edge-to-core data tiering, fast local performance, and compliance while meeting stringent federal IT data security and mission-critical availability requirements.

In choosing the platform, built on top of a zero-trust security architecture with FIPS 140-2 validation and offers 100% private deployments, the U.S. Navy can securely modernize legacy infrastructure while ensuring high-performance data transfer for remote users even over high latency links.

Department of Veterans Affairs

The VA has over 150 medical centers and 100s of petabytes (PB) of mission-critical data from business operations data to medical images used in veteran care. They had challenges managing the scale of data, the speed of processing data at each facility (the edge), no centralized control, lack of collaboration, and security concerns.

Hitachi Vantara provided a proven solution that enabled the VA to embark on an edge-to-cloud file services strategy without compromising on stringent data security requirements. The speed and flexibility of this solution provides better availability for veterans and hospitals, faster access to critical resources, and an on-ramp into the public cloud.

Hitachi Vantara
A Hitachi Group Company

Corporate Headquarters
2535 Augustine Drive
Santa Clara, CA 95054 USA
hitachivantara.com | community.hitachivantara.com

Contact Information
USA: 1-800-446-0744
Global: 1-858-547-4526
hitachivantara.com/contact