# Cohesity SmartFiles

Cohesity SmartFiles is an enterprise-class, software-defined, data-centric, multiprotocol file and object solution for the enterprise that transcends traditional offerings in terms of manageability, scale, security, efficiency and multi-tiered data management. It is based on the Cohesity Data Cloud multicloud data platform, which delivers a patented distributed architecture for scale-out storage in a pay-as-you-grow model that never requires disruptive upgrades.

SmartFiles modernizes and simplifies data and application management by providing one platform for multiple workloads. It is a modern converged target for consolidating data silos and securely managing unstructured content and application data, including digital libraries, archives, rich media, video surveillance, big data and backup data sets.
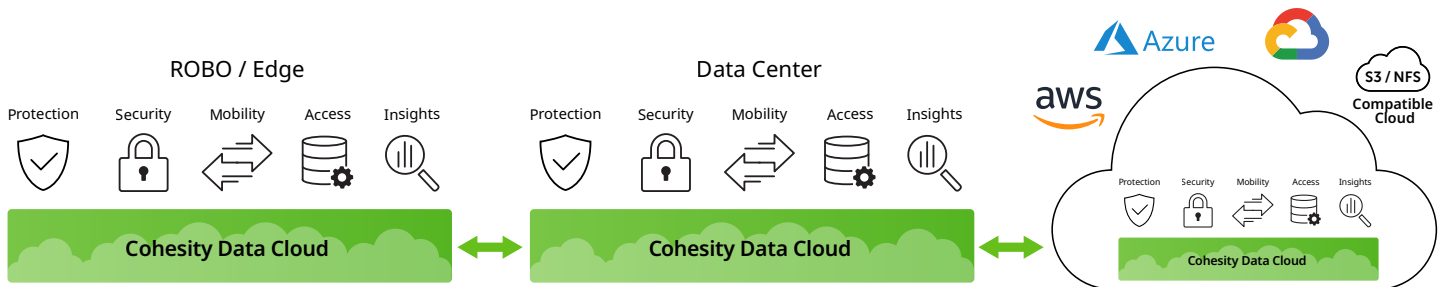


Figure 1: SmartFiles provides broad deployment flexibility

## Simplified Multicloud Data Management

SmartFiles software works efficiently on-premises as well as in the public cloud to make data visible and manageable. Its multicloud capabilities ensure seamless and rapid data mobility and application portability. Wherever data resides, it is always protected and preserved with integrated layers of security features and file integrity functions. Intelligent policy-based management and automation affirm efficient placement, governance and protection of volumes of data.

## Do More With Data

SmartFiles enables you to extract value from data through an integrated Cohesity and third-party application ecosystem that runs directly on data in-place to mitigate risk from cyber threats and ransomware, accelerate content and metadata search, streamline compliance and eDiscovery, and detect anomalies and develop actionable insights with powerful analytics. SmartFiles also increases operational efficiency with multiple protocols, native

SMB, NFS, and S3 compatibility, to integrate with leading business applications and clouds.

For added protection of your sensitive data, Cohesity DataGovern integrates with SmartFiles to help you accurately discover sensitive data, meet stringent compliance requirements, and enable fast response and recovery from ransomware and other cyber threats.

## Flexible, Efficient And Cost Optimized

Available as a software defined solution, SmartFiles delivers drastically lower cost of ownership by providing the flexibility to match workload, capacity and cost requirements with a range of hardware choices, including flash-optimized options. Innovative data deduplication, compression and small file optimization extend storage capacity and enhance performance. A standard feature allows analysis of data access trends on third-party Tier 1 NAS storage with automated data movement to a cost-optimized tier. This assures investment protection while reducing the frequency of NAS capacity upgrades.

## Capabilities

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| **File and Object Architecture** | • Cohesity SpanFS™, a distributed file system<br>• Scale-out architecture with unlimited scalability<br>• Non-disruptive upgrades |
| **Flexible Deployment** | • Software-defined solution for on-premises, public cloud, and edge sites<br>• Private cloud/data center – Hyperconverged storage appliances, supporting qualified Cisco, HPE, Pure Storage, Dell, Fujitsu, SuperMicro, Intel and Cohesity hardware<br>• Virtual Infrastructure (VMware vSphere)<br>• Public cloud – Deploy in leading public clouds |
| **Public Cloud Integration** | • Native integration with all leading public clouds including AWS, Microsoft Azure, Google Cloud Platform, and any S3 compatible clouds, as well as AWS GovCloud and Microsoft Azure GovCloud |
| **Maximum Capacity** | • Unlimited |
| **Protocols** | • NFS, SMB, S3, OpenStack Swift |
| **Global Management and Reporting** | • For multi-cluster, global active management |
| **Multi-tenancy** | • Multi-tenant management<br>• Role-based access control |
| **Storage Efficiency** | • Global deduplication across all nodes, variable length, inline, or post-process<br>• Compression, including Zstandard |
| **Resiliency** | • Replication and Erasure Coding options deliver up to 80% efficiency<br>• Strict consistency across nodes within a cluster ensures data resiliency<br>• Two node, two disk, chassis, and rack fault tolerance support<br>• Automated data integrity checks, drive failure detection and drive rebuild processes |
| **Data Protection** | • Software AES-256, FIPS compliant encryption of data in flight and at rest<br>• Immutability with DataLock (WORM)<br>• Multi-factor and quorum authentication<br>• Certified for SEC and FINRA compliance |
| **Integrated Applications** | • Add-on Cohesity data services, including DataProtect, DataHawk, SiteContinuity, FortKnox<br>• Cohesity DataGovern - Sensitive data discovery, compliance, cyber threat response and recovery<br>• Cohesity Developed Apps – Native applications including ClamAV (anti-virus), Spotlight (global content search), Insight (file audit), and other containerized applications from the Cohesity Marketplace<br>• Third-Party Apps from the Cohesity Marketplace<br>• Custom Apps – Develop custom apps using Cohesity's App SDK |
| **Index and Search** | • Automated global indexing<br>• Wildcard searches for any VM, file, or object |
| **Automated Data/App Mobility** | • Archive to Cloud/On-Premises<br>• Automated Data Tiering |

To learn more visit cohesity.com/products/smartfiles/.

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