

Druva CloudCache for Hybrid Workloads

All the security of a SaaS solution without compromising local backup and recovery or enterprise SLAs

The Challenge

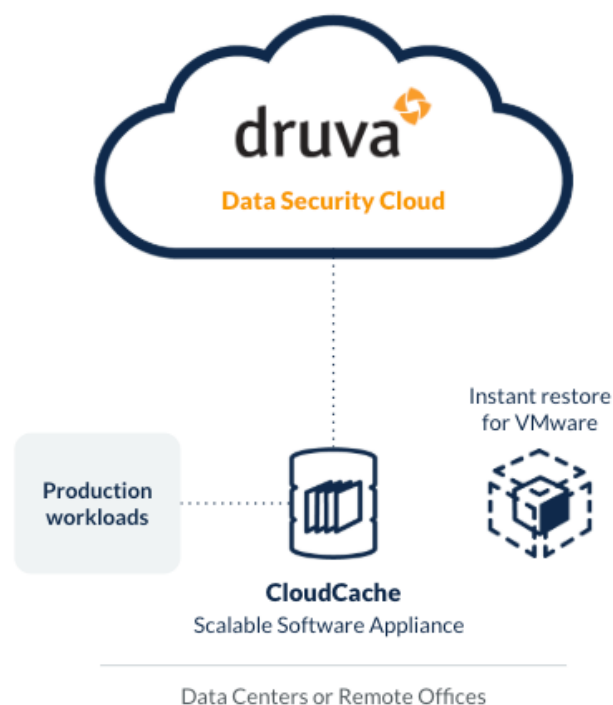
Organizations want to embrace cloud data protection for its security, scalability, and flexibility, but need to have local copies of data, whether in the data center or remote offices, to address strict service-level agreements (SLA). Commonly cited roadblocks for adopting cloud-based data protection include the following:

- Limited bandwidth at remote sites
- Large volumes of data to be backed up and restored from the cloud
- Aggressive recovery time objectives (RTO) and/or recovery point objectives (RPO) for mission-critical workloads
- Compliance requirements for backup copies on-premises

As organizations look to modernize their data protection strategy with a SaaS platform, they need to solve for strict RTO and RPO requirements while also removing the restrictions and overhead of traditional backup infrastructure.

The Solution

Druva CloudCache is a scalable software appliance that provides local backup and recovery points. It is fully integrated in the Druva Data Security Cloud and can be deployed in minutes as a VM (or on bare-metal hardware) and scaled up or down as needs change. With the ability to retain data for up to 30 days, CloudCache synchronizes with the Druva Data Security Cloud based on a configurable schedule, ensuring seamless integration and continuous protection. This enables organizations to achieve strict RTO and RPO goals without the high costs and complexity of traditional infrastructure. For VMware environments, CloudCache supports Instant Restore for 5-10 VMs in under five minutes, delivering rapid recovery when it matters most.



Key Features

- Fast backup and recovery regardless of available WAN bandwidth
- Global, source-side deduplication reduces LAN and WAN bandwidth consumption
- Bandwidth throttling and scheduled replication to control WAN consumption
- VMware Instant Restore of multiple VMs simultaneously
- Enhanced resiliency, ransomware, and accidental deletion protection via a golden copy of all data and metadata in the Druva Cloud
- Encrypted local data storage

Key Benefits

- **Easy and flexible deployment:** Software appliances on commodity hardware or VMs can scale as needed to meet different use cases (e.g., initial deployment vs. ongoing operations).
- **Meet demanding RPOs/RTOs:** Fast, multi-stream restore that scales to meet your needs.
- **Built-in resilience:** Stores a golden copy of metadata and data in the cloud.
- **Simplified management:** Manage CloudCache from within the Druva Cloud console.
- **Optional, no-charge feature:** Pay only for storage consumed in the cloud (not on-premises storage with CloudCache).
- **Automated long-term retention:** Store unlimited snapshots with local retention of up to 30 days and infinite cloud retention. Druva can automatically tier data to reduce storage costs.

How It Works

Druva CloudCache deploys on the same local network as protected production systems. Specified policies dictate whether to back up to a CloudCache instance or directly to the cloud.

Global source-side deduplication reduces both LAN and WAN consumption, as well as local storage requirements. Given the typical daily change rate on data is 2%, even 50TB of data would only send 1TB to the cloud each day (before deduplication). CloudCache replicates data to the cloud on a scheduled basis, while allowing backups and restores to occur as often as required.

Data resiliency is paramount and enabled by the Druva Cloud architecture, which delivers an infinitely scalable cloud file system with self-healing, global deduplication, and auto storage tiering. All backup metadata exists in the cloud, while CloudCache holds the latest snapshots for up to 30 days.

Druva support or your partner can assist you with further sizing, and additional technical details on CloudCache can be found on help.druva.com.

The Druva CloudCache architecture ensures that data is always available, once synced to the cloud, even with the loss of a CloudCache server. Data transfers from CloudCache to the Druva Cloud can be configured during off-peak hours with bandwidth throttling to ensure optimal network usage. After 30 days, local data is automatically purged from CloudCache, but remains available in warm storage in the Druva Cloud based on retention. For data sets that require longer retention, customers can enable Druva long-term retention to realize storage savings of 20 percent. With LTR enabled, Druva automatically tiers data from warm to cold storage (AWS S3 Glacier Deep Archive) after a set retention period to optimize storage usage and reduce costs.

Unlike expensive purpose-built hardware appliances, Druva CloudCache is a highly scalable software appliance, available at no additional charge, which can be provisioned using commodity servers and storage in many sites. Customers can dedicate as many or as few resources as needed at any time. Embrace the scale, security, and efficiency of cloud-native data protection with the flexibility to meet strict RTO and RPOs without hardware lock-in.

Supported Workloads

- Windows and Linux File Servers
- VMware vSphere, Microsoft Hyper-V, Nutanix AHV
- Microsoft SQL, Oracle databases
- Network Attached Storage (NAS)

Deployment Options

- **Virtual machine deployment:** Open virtual appliance (OVA) for VMware or QCow2 for Nutanix AHV.
- **Physical or virtual Linux servers:** Debian (.deb) package running Ubuntu 22.04.

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