Datrium Cloud DVX
Cloud Backup Vault for DVX and DRaaS

Key Benefits

Easy to Use
- SaaS: simple, fully managed
- Automatically use from DVX or DRaaS
- Self-healing
- Flexible topologies and scales to petabytes

Safe
- Encrypted in use, in flight, at rest
- Immutable data, isolated from ransomware

Cost-Efficient
- Global dedupe and compression across originating sites and over the wire for storage and WAN optimization
- Low-cost S3 storage
- Pay-as-you-grow consumption model
- Forever-incremental backups

Fast
- Much faster VM or guest file recovery through dedupe-based WAN optimization
- Recover direct to host without rehydration

Simplified Online Access to Offsite Backup Images
Cloud DVX provides an on-demand, integrated, offsite store for backup and DR images on low-cost Amazon Web Services (AWS) S3 storage. It’s offered as fully managed software as a service (SaaS) on AWS using your own account, a Datrium account, or as part of Datrium DRaaS.

Storing backups offsite is a required best practice of IT data protection. Cloud is becoming the natural place to store them. Cloud DVX overcomes the historical obstacles to cloud backup management, enabling straightforward and automated recovery of VMs, guest files, or whole data centers.

SaaS: Cloud DVX is managed as a complement to an on-prem DVX or as a component of DRaaS, so you can ignore the complex cloud infrastructure it requires – we manage it for you. Flexible topologies allow you to easily scale your Cloud DVX to many sites and over a petabyte of capacity.

Safe and Cost-Efficient: By using forever-incremental backup, universal dedupe, and compression for S3 and WAN optimization, Cloud DVX lowers storage cost/terabyte/month, and it minimizes egress costs during recovery. With built-in security, you don’t need a cloud VPN for backup. It enables the 3-2-1 model of data protection for Datrium products: 3+ copies, 2 media types (DVX on prem, S3 on cloud), 1 of which is offsite (S3 on cloud).

Fast: For VM recoveries to an on-prem DVX, WAN replication is much faster than software which lacks on-wire dedupe or sends full backups. Restores are done direct to the host without time-consuming assembly from multiple backup copies.

Easy to Use
From a DVX, simply choose a Cloud DVX to replicate to, enter your credentials and desired AWS region, and go. At that point, it’s just like having a second DVX for safe protection group replicas, with up to 1.2M VM snaps per instance, supported by a global backup catalog. Cloud DVX uses serverless methods to self-heal, update automatically, and share telemetry with Datrium Support.
DATRIUM CLOUD DVX DATASHEET

Service Platform

Clouds Supported
- AWS
- For DRaaS: VMware Cloud on AWS

Credential and Billing Options
- AWS
- Datrium direct

Safe and Cost-Efficient
All Datrium products dedupe across all storage and replication communications. That means storage and bandwidth consumption are minimized, which is especially important for egress costs from the cloud. With forever-incremental backups, there are no secondary full backups to store, send or retrieve. This powerful feature grows with multisite fan-in: if multiple sites replicate to one Cloud DVX, they replicate only the unique data across themselves. That can result in a total cost of ownership (TCO) of 3-10x lower than competitive backup approaches.

Also, Datrium products natively encrypt all data on WANs, using FIPS 140-2 validated SSL, eliminating the need for costly public cloud VPN services. That ensures data security while eliminating ingest network costs. Cloud DVX stores immutable snapshots safely isolated from ransomware, and it performs strong validation of data integrity and recoverability multiple times per day.

Fast
Because of universal dedupe and compression for WAN optimization, only unique data segments are transferred between sites. That's especially powerful during recovery. When compared with approaches that don’t offer this capability, transfer times are significantly improved.¹

The Bottom Line
With Cloud DVX, cloud-based backup vaulting is invisible, cost-efficient, safe, and fast. With global data efficiency, granular object management, end-to-end security, and massive consolidation of on-premises infrastructure into a single converged cloud data plane, customers can realize dramatic TCO savings while meeting their RTO, RPO, and DRaaS RCO SLAs.

Cloud DVX Quick Specifications

<table>
<thead>
<tr>
<th>Public Cloud</th>
<th>AWS</th>
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<tbody>
<tr>
<td>Specifications per Cloud DVX Instance</td>
<td>Resources managed by Datrium: EC2 - 1 i3.xlarge (up to 29 TB usable) or 1 i3.4xlarge (115 TB usable), S3 standard, DynamoDB</td>
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<tr>
<td>Instances and Fanning</td>
<td>Each on-prem DVX can have up to 10 replication targets, split among on-prem and Cloud DVXs. There can be as many as 10 Cloud DVXs per on-prem DVX in the same or different AWS regions. Up to 10 originating on-prem DVXs can replicate to a Cloud DVX instance.</td>
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<tr>
<td>Data Efficiency</td>
<td>Global dedupe and compression across originating streams, systems, and objects within a Cloud DVX store. Forever-incremental snapshots. Synthetic fulls.</td>
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<td>Retrieve Granularity</td>
<td>Guest Files, Virtual Disks, OVAs, ISOs, or Virtual Machines</td>
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<tr>
<td>Security</td>
<td>Always-on SSL for WAN replication, S3 envelope encryption (AWS). No VPN required.</td>
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¹ Based on the amount of data transfer needed from cloud to on-premises (in case of HCI backup, fully hydrated from secondary to the primary system at 10x speed). Data reduction assumptions: Datrium - 3x local, 1.5x cloud; HCI - 2x local, 1x cloud; HCI Backup - 3x local, 1x cloud