

Cloud disaster recovery on AWS

One-click, automated recovery for on-premises and cloud workloads

The Challenge

In the online era of cloud-based services, businesses need to ensure that the mission critical applications that power their businesses are always available. Any loss of service has a direct impact to the bottom line, which makes business continuity planning a critical element to any organization. However, the cost and complexity of legacy disaster recovery solutions has kept many organizations from deploying business continuity solutions to anything but a small subset of business applications, if at all. Newer DR solutions leverage the cloud to help reduce the cost of disaster recovery, however simply retrofitting an on-premises disaster recovery solution to leverage the cloud does not solve for the complexity managing on-premises hardware based solutions.

The Solution

Druva is the first cloud-native DR solution in the market that eliminates the lock-in, provisioning, and management of legacy hardware infrastructure. With Druva, powered by AWS, businesses have an all-in-one solution for backup and disaster recovery solution that significantly reduces downtime by enabling IT to harness the power of the public cloud.

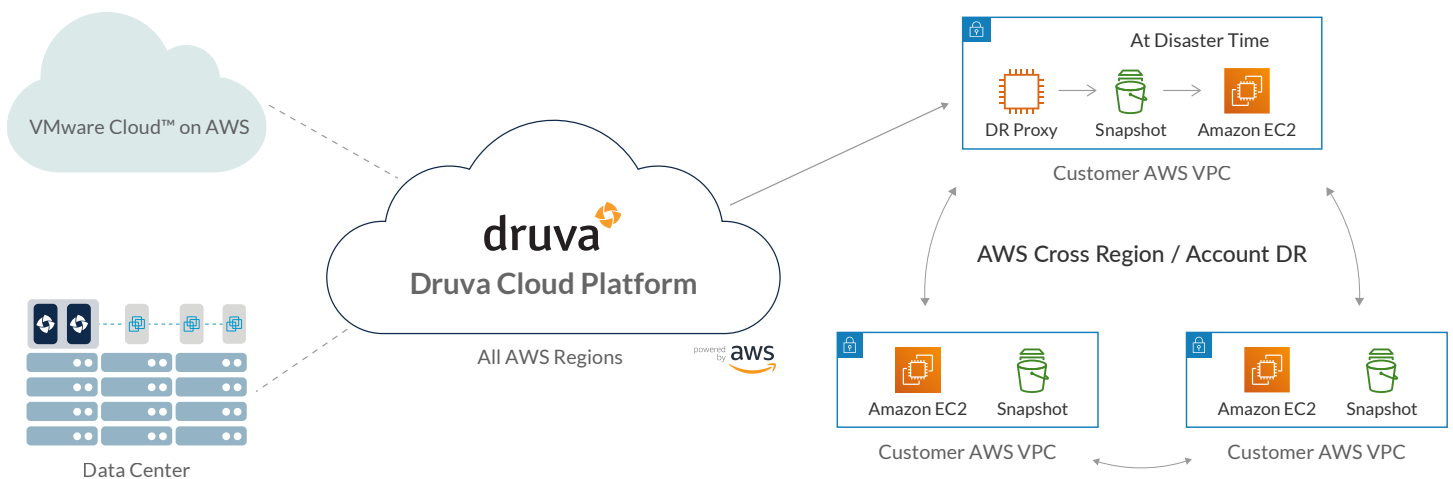
Druva delivers a globally available disaster recovery solution with one-click automated recovery for on-premises and cloud-based workloads that meets business continuity requirements.

Business Challenges

- Mission-critical workloads must be available 24x7, forcing business to invest complex disaster recovery solutions that are difficult to implement and maintain.
- Legacy disaster recovery solutions require costly investment in secondary data centers requiring maintenance, power, compute, networking and storage resources.
- The cost and complexity of DR solutions means businesses lack the flexibility to grow and scale their infrastructures on demand, leading to costly upfront investments for anticipated growth.

Benefits

- Druva's all-in-one solution for backup and DR eliminates the lock-in, provisioning, and management of legacy hardware infrastructure.
- With the flexibility and scalability of cloud, IT administrators can easily expand the coverage of their disaster recovery solutions, with support for on-premises and cloud-native workloads.
- One-click recovery with multiple recovery options and orchestration of runbook execution ensures meeting business continuity SLAs—RPO of one hour and RTO of minutes.



With on-demand capacity pricing and scalability, Druva delivers the reliability, scalability and flexibility that today's businesses require.

How It Works

Druva Cloud Platform disaster recovery services are built on AWS and integrated with users' AWS Virtual Private Cloud (VPC) to provide a secure operating environment available on demand for disaster recovery operations. With AWS VPC, users can easily scale their DR planning as needed, and access their disaster recovery site from anywhere in the world.

- **Integrated backup and disaster recovery** – On-premises and cloud workloads are backed up to the Druva Cloud Platform for primary backup and recovery. VMs are then converted to AWS EBS snapshots that are kept-at-the-ready inside the customers' AWS VPC for immediate spin-up of AWS EC2 instances at the time of failover.
- **One-Click Recovery** – With a single click, users can recover on-premises (failback) or in the cloud (failover) across any AWS region/account. No need for a managed DR site, onsite hardware or heavy administration and maintenance.

Summary	Recovery Workflow	Progress Logs	Detailed Logs	
			Start Time	Duration
✓	Recovery failover triggered for DR Plan 1		Aug 21, 2018 16:30:55	00:18:13
✓	Failover prerequisites check		Aug 21, 2018 16:30:55	00:04:25
✓ ▶	Step 1: VM Boot		Aug 21, 2018 16:30:55	00:16:31
✓ ▶	Step 2: VM Boot		Aug 21, 2018 16:30:55	00:32:26
⚠ ▶	Step 3: Manual Action		Aug 21, 2018 16:30:55	Waiting for user action
	Manual user action required to proceed the job			
	<input type="button" value="Complete Manual Action"/>			
▶	Step 4: Time Delay			
▶	Step 5: VM Boot			
	Post Failover Check (TBD)			
	Failover Complete			

- **Customized DR Plans** – Single pane management for all backup and disaster recovery operations enable administrators to customize DR plans by department, application, or any other criteria that meets their needs.

The Benefits

Leveraging the global reach of cloud, Druva's disaster recovery services deliver recovery time objective (RTO) within minutes and recovery point objectives (RPO) of an hour across any AWS region/account in the world.

- **Recovery automation** – As applications get more complex, the interdependency gets more complicated. Now with Druva, enterprises can automate runbook execution and streamline processes for rapid recovery.
- **Failback recovery** – Druva's disaster recovery supports hybrid workload failback, for example to VMware on AWS or on-premises data centers to align with enterprise compliance.
- **Automated disaster recovery testing** – Now, enterprises can automate the process, ensuring the team is prepared for a potential disaster and meeting compliance and audit requirements.
- **Replication and mobility** – Users have the ability to replicate virtual machines, clone full VPCs, and also move them cross-region/account for test and development, and greater resiliency.

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