

Disaster Recovery at Scale for Amazon EC2 Instances

Zerto, a Hewlett Packard Enterprise company, expanded its leading disaster recovery (DR) to Amazon EC2 instances that need protection across AWS regions, availability zones, and accounts. Zerto In-Cloud for AWS brings a simple, scalable, and efficient native disaster recovery solution to Amazon EC2 workloads that are born in the cloud or migrated into the cloud. Since 2015, Zerto's industry-leading disaster recovery solution has protected on-premises virtual machines (VMs) to AWS, and this new DR orchestration capability extends protection for customers using AWS as both a source and a target site. Built for scale, Zerto In-Cloud for AWS protects thousands of instances across accounts with speed of recovery, simplicity, and with no agents to manage. API-centric management allows Zerto In-Cloud to be easily integrated into the automation tool of your choice (i.e. Ansible, Jenkins, and Terraform) to make DR part of your automated management strategy.

How it Works

The Zerto In-Cloud Manager is a Linux-based virtual appliance that works with the Amazon DynamoDB and Amazon EBS to provide automation of snapshots and replication for EC2 instances across all associated accounts. The Zerto In-Cloud Manager is stateless and can reside in any EC2 region and quickly redeployed into another zone or region if needed. Only a single Zerto In-Cloud Manager appliance is needed for management regardless of how many EC2 instances are protected.

Zerto In-Cloud coordinates Amazon EBS snapshots and replication to protect instances across regions so that in the event of a regional outage or other type of disaster or attack on your data or applications, those assets are protected to a separate region or zone to be brought online again quickly.

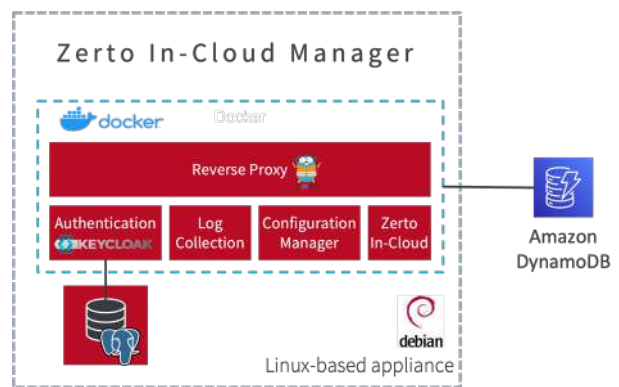


Figure 1
The Zerto In-Cloud Manager is a Linux-based virtual appliance that provides management, orchestration, and automation for protection of Amazon EC2 instances across availability zones, regions, and accounts.

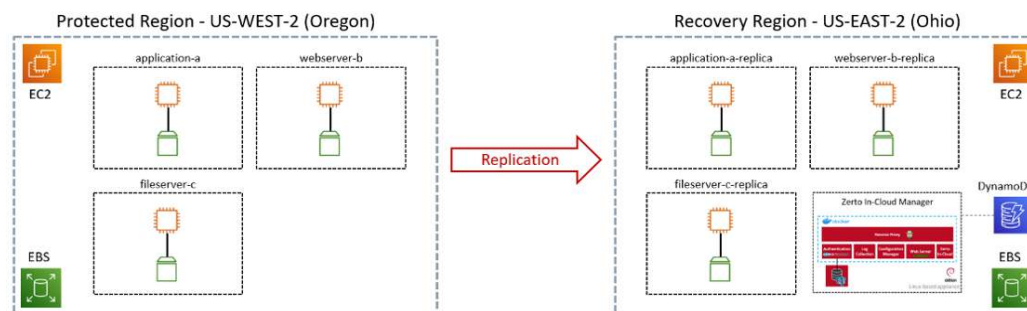


Figure 2
Using EBS snapshots and native AWS replication, Zerto In-Cloud protects Amazon EC2 instances from local and regional outages and other potential disasters

Applications and the instances they run on in Amazon EC2 are protected in virtual protection groups (VPGs) that coordinate replication and recovery across the entire application group. This application-centric approach to protection means entire applications are restored with consistency and write-order fidelity. Analytics, included in the offering, provide insights and reports on recovery time objective and recovery point objective for your virtual protection groups.

Features and Benefits



Scalability: Zerto In-Cloud's agentless, native integration approach enables easy scaling to protect 1000+ workloads promoting resilience for enterprises of all sizes in Amazon EC2. Whether you have one AWS account or hundreds, you can easily orchestrate protection across your organization.



Non-Disruptive Failover Testing: Zerto In-Cloud automation and orchestration allows for non-disruptive failover testing of all instances in an AWS region or availability zone to validate recovery plans and readiness when an outage of disaster strikes.



Orchestration: Zerto In-Cloud automates protection of EC2 instances, eliminating the need for excessive, manual, and error-prone steps to execute recovery plans. Failover and failover testing features are then automated for scalability and simplicity.



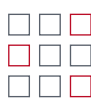
Speed of Recovery: Using native protection and replication capabilities in AWS with Zerto automation and orchestration, Zerto In-Cloud protects thousands of Amazon EC2 instances for recovery within minutes across regions or availability zones.



Flexible Management: A complete REST API is at the forefront of Zerto In-Cloud management so it can be easily integrated with other management systems and combined with other automation and integration solutions.



Stateless Management: The Zerto In-Cloud Manager appliance runs from any Amazon EC2 region and can be quickly redeployed to another region in the event of an outage to recover and manage workloads.



Application Groups: Protect and recover large complex applications like SAP. Zerto In-Cloud orchestration enables application-centric virtual protection groups to recover applications as a single entity to another region or availability zone.



Simplicity: Using native, agentless AWS integration, rather than creating another layer of software across AWS, Zerto In-Cloud takes advantage of Amazon EBS snapshots and native AWS replication. Analytics provide you insights and reports on RTO and RPO.

Disaster Recovery and Backup to AWS

Protect data and applications with AWS as a remote DR site and repository for long term retention of backups



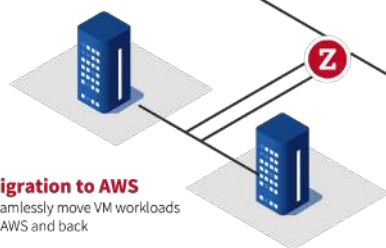
Disaster Recovery within AWS

Orchestrated protection at scale for organizations running production workloads in Amazon EC2



Migration to AWS

Seamlessly move VM workloads to AWS and back



Disaster Recovery and Backup for Kubernetes

Protect containerized applications from on-premises to Amazon EKS or between EKS deployments

One Zerto Platform: Zerto In-Cloud is part of the Zerto cloud data management and protection platform converging backup, disaster recovery and data mobility. Zerto empowers customers to run an always-on business by simplifying the protection, recovery, and mobility of on-premises and cloud applications.

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About Zerto

Zerto, a Hewlett Packard Enterprise company, empowers customers to run an always-on business by simplifying the protection, recovery, and mobility of on-premises and cloud applications. Zerto's cloud data management and protection platform eliminates the risks and complexity of modernization and cloud adoption across private, public, and hybrid deployments. The simple, software-only platform uses continuous data protection at scale to converge disaster recovery, backup, and data mobility. Zerto is trusted by over 9,500 customers globally and is powering offerings for Microsoft Azure, IBM Cloud, AWS, Google Cloud, Oracle Cloud, and more than 350 managed service providers. www.zerto.com

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