

SECURITY COMPLIANCE

THE CASE FOR FEDERAL IT RESILIENCE

FOR IT
PROFESSIONALS

Zerto
IT RESILIENCE

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PROUDLY SUPPORTING DOD AGENCIES

SECURITY
COMPLIANCE
FOR:

NIST



LEVERAGING ZERTO IN GOVERNMENT AGENCIES

Government agencies perform vitally-important tasks on a daily basis that are essential for millions of citizens -- from handling currency to controlling our military and courts.

These tasks also include a great burden of responsibility: protecting and disseminating massive amounts of confidential data. This daunting task has led many government agencies to place their trust in Zerto, the data protection and IT Resilience resource-of-choice for ultra-sensitive and demanding IT environments.

Here are a few examples of how Zerto provided various U.S. Government agencies with unparalleled Business Continuity solutions including Disaster Recovery and comprehensive data protection, infrastructure modernization and consolidation, and data migration across multi- and hybrid cloud environments.

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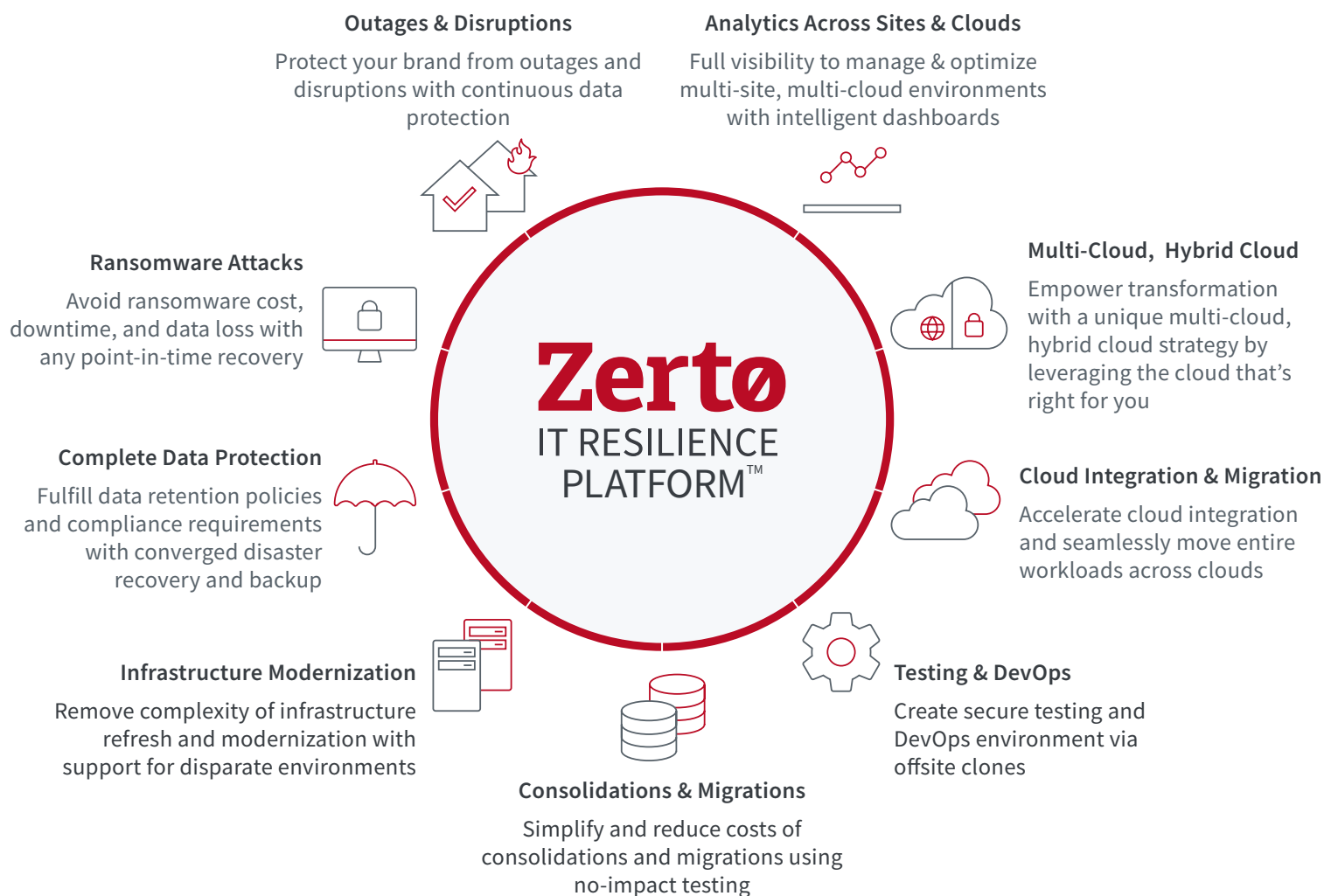
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WHAT CAN ZERTO DO FOR YOU?

Zerto provides a single, scalable platform for continuous availability, data protection, and workload mobility to, from, and between multiple clouds



FEDERAL AVIATION ADMINISTRATION

USE CASE

Hardware Migration

BCDR

CDP



OVERVIEW

The Federal Aviation Administration (FAA) wanted to move away from legacy hardware, where servers and storage were separate, to a hyper-converged infrastructure (HCI). They embarked on upgrading hardware within two (2) of their primary datacenters, and along with the re-platforming on to new hardware, the FAA also sought a solution to automate Disaster Recovery (DR) for FISMA High applications. The desired solution would help them to meet the stringent RPOs/RTOs that were outlined by its end users.

Additionally, the FAA needed to achieve the re-platform onto the HCI with minimal downtime while also streamlining efficiencies for business continuity and disaster recovery (BCDR) so they could properly manage the SLAs outlined by their end users for the mission critical applications and programs.

SOLUTION

Zerto's IT Resilience Platform™ enabled the FAA to do a lift and shift migration and re-platforming onto the new HCI with zero downtime to the production environments. Once the migration was completed, the FAA leveraged Zerto for BCDR that provides orchestration, automation and improved efficiencies to maintain SLA uptimes for the FISMA High applications. Powered by Zerto's Continuous Data Protection (CDP), the FAA's Recovery Point Objectives (RPOs) and Recovery Time Objectives (RTOs) were significantly reduced and provided annual DR testing with zero impact to their production environments. The FAA can now do testing during normal business hours versus during downtime hours, meeting the federal government testing requirements with less manual intervention and off-hours strain on resources.

UNITED STATES ARMY

USE CASE

Business Continuity

ERP System



OVERVIEW

The United States Army was challenged with the task to provide continuity of operations between multiple infrastructures and sites, while maintaining RPOs/RTOs with near zero data loss for one of its ERP systems. Their existing solution required a lot of manual intervention to enable “recover and restore” capabilities, as opposed to the more desirable “rewind and resume” type of capability they were seeking.

SOLUTION

Zerto’s IT Resilience Platform™ will provide the US Army a solution that allows them to recover from granular RPOs with points-in-time of sub 15 seconds. Zerto also automates recovery scenarios with built-in orchestration and automation capabilities which were previously performed as a manual process that took multiple people’s intervention.

The US Army is now able to provide continuous operations between its primary and secondary sites with the capability of adding a tertiary site for nearline recovery or enabling a public cloud target to satisfy federal mandates of being cloud ready and pursuing a cloud first strategy.

DEFENSE LOGISTICS AGENCY

USE CASE

Cloud Enablement

Reverse Protection



OVERVIEW

The Defense Logistics Agency (DLA) needed to move application workloads from an on-premise private cloud infrastructure over to a public government cloud target while minimizing rearchitecting of the environments. While being able to migrate the application workloads from on-prem to public cloud, DLA was also seeking a solution that could protect the application workload transfer back to its primary datacenter that resided at another on-premises location.

SOLUTION

Zerto facilitated the migration into the public government cloud target within 30 days as well as providing the reverse migration back to its primary datacenter as a secondary measure in the event that the new target did not maintain optimal performance. The lift and shift migration of the applications needed minimal rearchitecting and provided all the orchestration and automation necessary for reverse protection due to the built in APIs that Zerto enables.

As a result of Zerto's solution, the DLA completed the migration in a consolidated timeframe, with significantly less resources than previous migrations, while maintaining 100% uptime between the sites. The DLA is now targeting reductions to its operational and capital expense budgets due to Zerto's proven ease of use and automated workflows removing dependencies on additional resources.

ADMINISTRATIVE OFFICE OF THE US COURTS

USE CASE

Business Continuity
as a Service



OVERVIEW

The Administrative Office of the US Courts (AOTC) needed to stand up a solution that enabled all other courts systems under the AOTC to be able to replicate mission critical workloads and data to the AOTC datacenters through the Court Services Hosting Branch (CSHB).

The AOTC needed a solution that could consistently replicate multiple hypervisors, versions of hypervisors and provide the ability to integrate with current systems in place, all without uprooting already established architectures.

SOLUTION

Zerto enabled the AOTC CSHB to provide business continuity and replication up to the AOTC datacenters as a shared service for over 210 ancillary court systems. The Zerto IT Resilience Platform™ is providing the US Courts a way to provide its as-a-service model for business continuity without having to disrupt standard processes and systems that the ancillary courts have adopted. Zerto's solution helped the AOTC and US Court systems to improve operational efficiencies, reduce cost, and integrate data under one single-pane-of-glass.

NATIONAL AERONAUTICS & SPACE ADMINISTRATION

USE CASE

Shared Service &
Cloud Enablement



OVERVIEW

NASA maintains and operates an enterprise application and compute center where other NASA entities can leverage datacenters, infrastructure and operations to gain support for production, staging, testing and secondary environments for mission-critical applications.

NASA was challenged with finding and providing to those entities a solution that enabled orchestrated and automated DR capabilities, stringent RPOs/RTOs for multiple applications, one-to-many site replication, and replication into the public cloud. NASA was also challenged with finding a solution that could be vendor agnostic to the underlying infrastructure, storage hardware, hypervisor, hypervisor versioning and cloud that they were replicating to and from.

SOLUTION

Zerto is enabling NASA to provide multi-tenancy across all its end user customers for workloads being replicated from primary, secondary and tertiary sites while enabling the testing into public cloud targets. This is being accomplished with Zerto enabling one-to-many replication along with configuring scripts and APIs to enable the multi-tenancy environment.

With the Zerto IT Resilience Platform™, NASA is also able to be agnostic to the end user environments and is able to support multiple environments (private, public, hybrid). They've achieved being agnostic to infrastructure and successfully reduced cost for the overall software and hardware comprising the NASA enterprise shared service center.

FEDERAL DEPOSIT INSURANCE CORPORATION

USE CASE

Migration



OVERVIEW

The FDIC was tasked with bringing the agency into FEMA Category 2 compliance that requires continuity of operations (COOP) for a 12-hour restore time for mission essential functions (MEFs), including underlying software applications.

With the FEMA CAT 2 mandate, FDIC had to migrate its application workloads from its current COOP site in Northern Virginia to a new target site in Dallas, Texas. This was due to FEMA CAT 2 requirements mandating that the COOP site must be 500 miles from the Primary datacenter.

SOLUTION

Zerto was selected by FDIC to migrate all mission-critical applications from their current secondary site to the new site in Dallas, Texas. They successfully leveraged Zerto to migrate the applications to the new site with zero downtime for the applications and were able to do so with automation and with minimal re-orchestration to those applications.

Zerto reduced the migration timeframe by more than 50% for FDIC as well as automated the power down of applications when being migrated to the new COOP site.

Further testing for a tertiary target is being validated and tested by FDIC due to the success of the migration.

FOR MORE INFORMATION

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