

Mastering GreenOps: Virtual Workload Migrations for Eco-Friendly Operations with Zerto and Device42

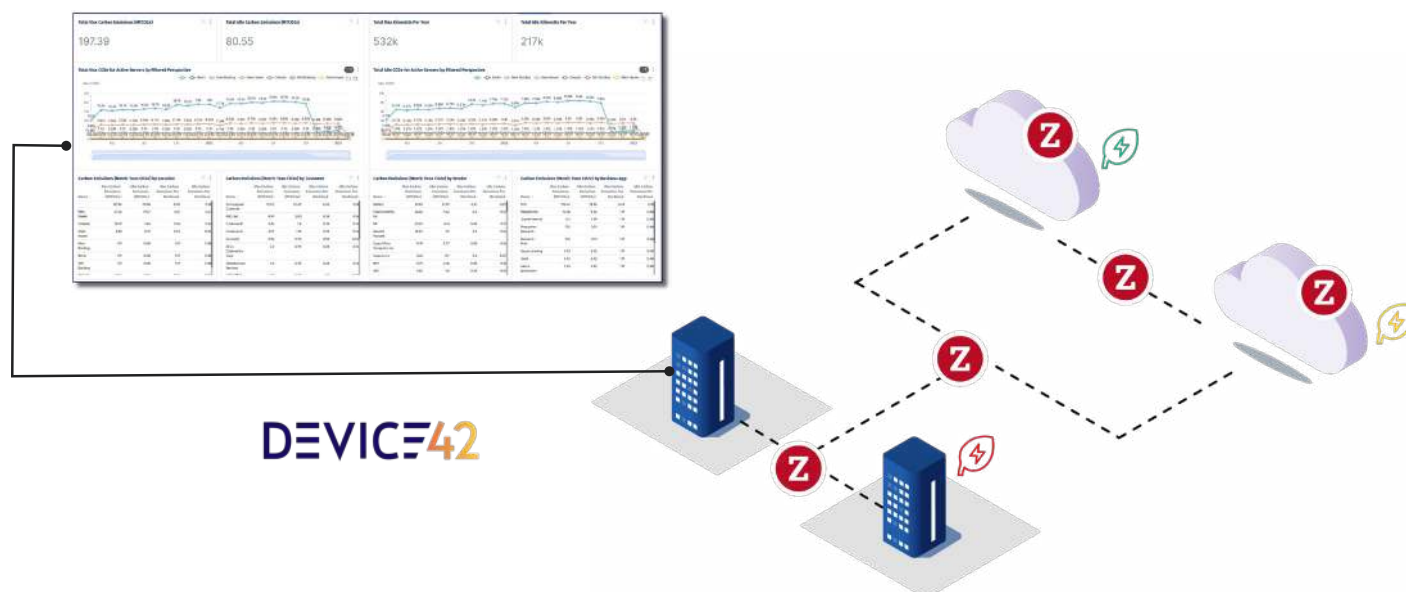
Drive Down Power Costs and CO₂ Emissions to Help Achieve Your IT Sustainability Goals

The data center can be described as “dirty”—well, in a sense. Outside of manufacturing, IT is now considered one of the major sources of carbon dioxide (CO₂) emissions and power consumption. As such, across the globe, new sustainability disclosure standards are coming into effect. Chief information officers are going to be looking to their IT teams for the most effective ways to reach their net zero goals and meet sustainability regulations.

Getting Your Data Center and Virtual Workloads to Green with Zerto and Device42

In combining [Device42's](#) IT Discovery and Sustainability Insights capabilities with the fully automated and orchestrated migration solution with Zerto, a Hewlett Packard Enterprise company, IT admins have an easy way to both discover, monitor, and move their virtualized workloads to a “greener” configuration or the public cloud helping them along in the race towards carbon neutrality.

Device42 automatically discovers all physical IT assets that consume power, benchmarking power usage, identifying areas where inefficiencies exist, and displaying carbon emissions by business application, customer, vendor, and physical location. Zerto enables an always-on business by simplifying the protection, recovery, and mobility of on-premises and cloud applications. Zerto eliminates the risk and complexity of modernization and cloud adoption across private, public, and hybrid deployments. The simple, software-only solution uses continuous data protection at scale for disaster recovery and migrations.



Zerto & Device42 Sustainability Insight Dashboard Overview

Let's see how these two solutions work together to empower IT in helping to drive your organization's sustainability initiatives:

Step 1: Discover with Device42

The first step with your IT sustainability efforts is to start with complete visibility of your hybrid infrastructure. Device42 has the most comprehensive, full-stack hybrid IT discovery and dependency mapping solution available. It discovers your entire hybrid IT estate from the data center to the cloud and everything in between so that you have an accurate, up-to-date inventory as a foundation from which to build your sustainability efforts.

Step 2: Measure with Device42

Tracking your performance over time can help you make data-driven decisions and stay focused on your sustainability goals. The Sustainability Insights Dashboard measures and benchmarks the total CO₂ emissions from active and idle servers and CO₂ emissions by location, customer/business unit, vendor, and business applications as a baseline for your carbon footprint. You can monitor ongoing power usage and track the impact of your energy-saving initiatives over time to pinpoint areas that have the biggest impact for improvement and identify areas for further improvement.



Device42 CO2 Measure

Step 3: Manage with Device42

Once you have established a baseline for power usage and CO₂ emissions, the next step is to identify underutilized resources and create a plan to optimize capacity. Device42 Sustainability Insights can help you easily identify underutilized servers and other resources, understand data growth to implement a strategy to consolidate storage hardware, and determine if moving workloads to the cloud or another data center is appropriate to reduce power consumption and your carbon footprint.

Step 4: Migrate with Zerto

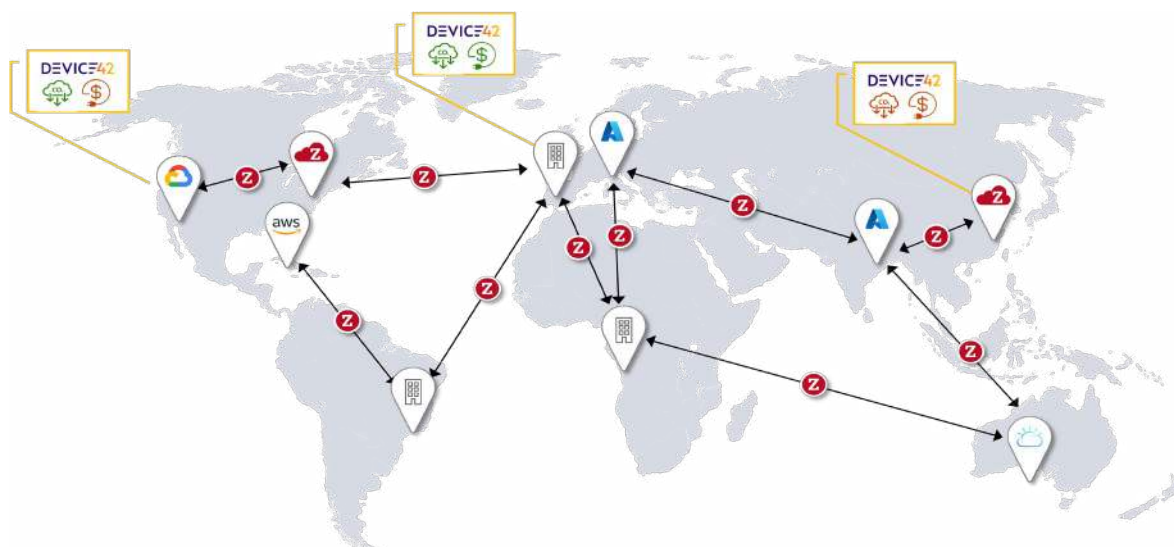
The best way to move the virtualized workloads to is with Zerto. Based on the derived insights, create a Virtual Protection Group (VPG) to migrate VMs between the "greenest" data centers or cloud offering as discovered by Device42. This could depend on a variety of metrics such as power cost, the total carbon dioxide (CO₂) emissions from active and idle servers and CO₂ emissions by location, latency, and more.



Moving Virtual Workloads with Zerto

Step 5: Continuously Optimize, Monitor, and Move with Zerto and Device42

Ensure responsible and efficient data virtual workload operations by continuously monitoring your virtualized infrastructure workloads and moving them back and forth between multiple data centers or clouds.



Measuring & Moving Virtual Workloads with Zerto & Device42

Together, Zerto and Device42 can be used to empower IT to drive your organization's sustainability initiatives. By using [Device42 Sustainability Insights](#), users can discover, measure, and manage their on-premises infrastructure to evaluate whether migrating workloads to the cloud or another colocation facility is suitable for reducing power consumption and minimizing their carbon footprint.

Take the first steps toward developing a sustainable IT strategy and action plan by reading more about the [Device42 Sustainability Insights Dashboard](#) and trying Zerto yourself for free in our hands-on labs.

[Try our hands-on labs](#)

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 eliminates the risk and complexity of modernization and cloud adoption across private, public, and hybrid deployments. The simple, software-only solution uses continuous data protection at scale to solve for ransomware resilience, disaster recovery, and multi-cloud mobility. Zerto is trusted by over 9,500 customers globally and is powering offerings for Amazon, Google, IBM, Microsoft, and Oracle and more than 350 managed service providers. www.zerto.com