



CLEVER® Solutions For IBM Z

How Much Does a Data Breach Cost?

According to the 2020 *Cost of Data Breach Report* by the Ponemon Institute, out of 524 organizations in 17 countries/regions that reported data breaches between August 2019 and April 2020, the average total cost of a data breach was \$3.86 million. The average total cost at enterprises of more than 25,000 employees was \$5.5 million, compared to \$2.64 million for organizations under 500 employees. The United States was the highest cost country/region. The highest industry cost was incurred by the healthcare sector with an average cost of \$7.13 million. The average time to identify and contain a data breach was 280 days.

A majority of organizations (76%) also predicted that remote work would make responding to a potential data breach a much more difficult task. With the increasing remote workload due to the pandemic, it's even more imperative to ensure your mainframe network's security, and to minimize the time to identify a potential data breach threat.

[CLEVERDetect® for IDS](#) is a z/OS Intrusion Detection tool that complements the z/OS Communications Server Intrusion Detection Services (IDS). It provides enterprise wide z/OS intrusion details, FTP Logon Failures and any other Security Access Facility (SAF) events in a crisp, clear, and concise manner, allowing both real-time alerts and actions, as well as historical trending and analysis. The [CLEVER Mobile® for IDS app](#) also allows you to access critical IDS events and notifications anytime, anywhere.

[CleverView® for cTrace Analysis](#) provides further insights into the intrusion by analyzing the IDS Packet Trace, allowing you to correlate the intrusion events with the offending network packets.

Click here for a [Free Demo](#) or a [Free Trial](#).

CLEVER® Solutions for IBM Z

AES CLEVER Solutions for IBM Z specialize in infrastructure performance, virtualization, cloud computing, and network security to assure adequate application service level delivery for your mainframe.

[CleverView for TCP/IP](#) (on z/OS) provides the ability to correlate workload information and to insure end-to-end service level delivery on mainframe networks. It measures, summarizes, and reports on TN3270 response time, FTP session details, Web

applications and CICS transactions RTT performance, DVIPA workload balancing and OSA express performance, along with TCP/IP applications and critical resources service level performance.

By combining real-time monitoring and alerts to potential problems with in-depth historical reporting of activity and trends, CleverView for TCP/IP gives you a proactive, comprehensive, and automated solution to z/OS TCP/IP workload performance and availability management.

[**CleverView for cTrace Analysis**](#) allows users to schedule, initiate and analyze traces from z/OS, Comm Server IDS, OSAENTA, HiperSockets™, Linux and Windows, providing end-to-end viewing of network traffic. The Expert Analysis functions enhance diagnostic efforts and accelerate virtualization, cloud and application deployment, while reducing costs and improving problem resolution.

[**CLEVERDetect for IDS**](#) is a z/OS Intrusion Detection tool providing a new way to view IDS messages, route these messages to SNMP or SIEM managers, view FTP server logon failures, and issue commands from either a browser or mobile interface. The ability to provide enterprise-wide z/OS intrusion details and FTP Logon failures in a crisp, clear, and concise environment allows trend, pattern and anomaly identification.

[**CleverView for TCP/IP on Linux**](#) provides both proactive and reactive monitoring of the Linux on IBM Z or LinuxONE platforms. It monitors Linux processes and resources, TCP/IP protocol flows, and Docker containers metrics, with robust alerting capabilities through configurable thresholds. Keeping track of key metrics and events like container details and container resource utilization are critical to gaining visibility into the performance of the processes inside the container. In addition, it offers health monitoring and diagnostics capabilities that enable near real-time diagnosis and resolution of detected issues.

CLEVER Solutions also come with the [**CLEVER Mobile®**](#) apps for real-time alert notifications and easy access to performance metrics anytime, anywhere!

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