

In the spirit of Halloween,
here are five of the

Scariest Things Lurking in Your Data Center

and what you can do to prevent them



Server Racks with Hot Spots



Server Racks



As the world digitalizes and the demand for computing power grows at a back-breaking speed, data centers are often in a crunch to add capacity. That often means adding servers in an existing space. ⚡ If your data center cooling approach is not keeping up with the rising densities in your racks, hot spots can emerge, causing overheating, server lifespan reduction and even failures. ⚡ The right approach may mean simply reconfiguring your equipment, but the fix might include **high density cooling solutions** or a **pumped refrigerant economizer** that works with a cooling unit and outdoor condenser to significantly improve data center efficiency - without bringing in outside air and without using water.

Edge Data Center Left in the Dark



Everyday Edge Data Center With Remote Monitoring Capabilities



With so much growth and expansion at the IT edge to support changing market needs like remote work, IT teams are struggling to not be left in the dark when it comes to managing and monitoring their networks remotely. ⚡ Fortunately, new IT management platforms like the **Vertiv™ Avocent® ADX Ecosystem** provide the data visibility, device access and automated processes needed to increase speed, accuracy and scale. ⚡ The Vertiv Avocent ADX Ecosystem provides the single view, management tools, and automation capabilities organizations need to bring clarity and control to networking and security, so IT managers know if something spooky is happening in their data center.

Dying Batteries Endanger Your Connected Equipment



UPS Battery String



If a voltage rating of one battery falls to a low level, the entire battery string is at risk, which can leave the load unprotected. For companies that do not utilize a monitoring system for their UPS, **Preventive Maintenance** visits are especially useful for detecting low voltage ratings on battery jars. ⚡ After detecting a low voltage rating, a Vertiv technician can replace the battery jar(s) to help the overall system run at peak performance. Using **battery monitoring** technology can help safeguard a critical facility from threats that range from faulty equipment to environmental conditions. ⚡ Additionally, Vertiv recommends using a Lithium-Ion (Li-ion) UPS battery backup system, which can provide twice the life expectancy of traditional VRLA batteries. ⚡ Through fewer battery replacements, ability to withstand higher temperatures, and quick recharge cycles, these systems are ideal for protecting critical infrastructure.

Aging Components Threaten UPS Life



UPS System



To protect the longevity of a UPS, components must be replaced on a set schedule. ⚡ **During a Preventive Maintenance (PM)** visit, Vertiv technicians can track the wear and tear of these components so they can be replaced long before the end of their lifespan. ⚡ Capacitors are critical components in a UPS, and a bulging capacitor, if left unchecked, can cause serious issues and affect the functionality of a UPS, as well as the uptime for the system. ⚡ During a PM visit, a technician can also inspect fans used in a UPS to see if they have exceeded their life performance and recommend whether they need to be replaced. In addition to risking UPS downtime, fans operating beyond their limits can trigger an alarm, which then must be reported, affecting the site's overall maintenance performance rating.

Dirty Air Filters Leave Thermal Management Systems Gasping



Clean Thermal Management System Air Filters



Dirty air filters force thermal management systems to work harder to properly cool equipment, which can affect efficiency and performance. ⚡ Clean air filters not only help systems perform more efficiently, but also keep dust and debris from compromising the performance of sensitive IT equipment.

Vertiv Can Help



No matter the time of year, **preventive maintenance** visits from Vertiv certified technicians and Vertiv's **monitoring solutions** can help prevent these scary situations and help give your organization more control and visibility over things that go bump in the night.