

Project proposal for configuring Linux backup and archive

Aerospace is a robust and dynamic industry that requires a lot of manufacturing and parts to be shipped and delivered at the same time. Many aerospace companies focus on innovation and especially in today's market making a positive impact on the environment through energy-saving practices and strong ethical code. It can be a confusing process and much data needs to be stored within the companies of the industries for elements like the procurement of the product, marketing and information about the employee. A large industry like Aerospace can use the help of Veritas, a Linux-based software archive that protects large files of data.

Veritas is a linux-based backup software that works in multiple steps to protect data. It has a special telescope design to record and images of data. The data goes through special photo-multiplier accompanying image trigger. This special technology combines data from the VME(virtual machine environment) crate into events. The VME crates are connected as nodes of low-latency, high-throughput network (Hays) which makes Veritas be able to store and secure large amounts of data. Its configuration features include generating a physical map of the modules present by type with a unique identify boards, combined into a single telescope busy level and serializing event mask that contains an event number and trigger type code.

It's scalability is as scalable as every channel that the signals go through can read up to 400 events every 2 seconds. Veritas combines the power of hardware and software to provide efficient and reliable operations in the storage of events. Having such a huge storage ability gives it the power to protect against ransomware only 50% of companies could recover from. This also makes Veritas one of the most expensive Linux backups there are to offer.

One Aerospace company that can benefit from Veritas is Leonardo Helicopters. The company has division in several industries like Aerospace, defense and security. Since there is such a high emphasis on security, the company would need to invest in a higher security backup.

Hays, Elizabeth, and VERITAS Collaboration. "VERITAS data acquisition." arXiv preprint arXiv:0710.2288 (2007).