



Case Study

Discover How we helped Drakewell with Storage and Data Back up challenges.



DRAKEWELL
www.drakewell.com

Synology[®]

About The Company

Established in 1979 Drakewell are specialists in traffic data analysis across the UK. Drakewell provide software and development services for continuous traffic data 24/7/365 for organisations such as Transport for London and Local authorities. Drakewell are also an ISO9001 and 27001 certified organisation.

The Challenge

With continuously streaming traffic data generated by roadside technologies, Drakewell maintains a large database requiring constant access and updating. The database requires low latency and fast responses to serve critical data in real time to enable smart solutions for traffic flow on roads and railways.

With this increasing amount of data, Drakewell needed to double the capacity of their VMware storage on their current technology estate. In addition, there was a requirement to run four concurrent backup operations 24 hours a day, with each backup taking up to 12 hours to complete.

Gen21 were tasked with designing and implementing a solution that not only met the capacity needs but also allowed for the solution to scale as the virtual machine footprint grows.

The Solution

As their primary virtual machine storage Synology FS6400 units were deployed, each populated with 24 x 2TB SSDs as well as the Synology SA3400 with the RX1217sas expansion unit with 24 x 4TB HDD as a backup target.

The applications and requirements are very write intensive, so Gen21 selected RAID 10 and opted for NFS4.1 as the server access protocol to leveraging Synology's processor, system memory and hardware acceleration for disk writes.

Drakewell also installed the Synology FS6400 in Drakewell's which is fully populated with 24 x Synology SAT5200-1920G SSD Drives. This means it not only benefits from enterprise grade disks, but by simplifying firmware update process and providing a fully integrated storage experience, encompassing hardware, software and disk management.

"Storage isn't just about space, it's also about performance and reliability, deploying Synology hardware and solutions provide this and help SMB's punch above their weight"

Jason Windmill, Gen21