Infrastructure replacement · Engineering & design

Full infrastructure replacement for a busy CAD office

End-to-end infrastructure replacement: clustered Hyper-V hosts and Dell SAN, WatchGuard firewall cluster, 10 Gbit networking, dark fibre, and 120 Dell CAD workstations plus 20 admin laptops.



2	10 Gbit	120	20
Hyper-V hosts in a cluster	networking between devices	Dell CAD workstations	laptops for admin staff

Before

• Ageing servers and storage where one failure could stop the office.

• Slow network for large CAD files; no firewall redundancy.

• Dated email and collaboration tools.

After

• Two Hyper-V hosts and a Dell SAN in a cluster, plus a WatchGuard firewall cluster.

• 10 Gbit networking between all devices, Dell core switch, 1 Gbit internet over dark fibre.

• 120 Dell CAD workstations and 20 admin laptops; Office 365 for email and Teams; data stays on-premises.

What changed

Two new Hyper-V hosts and a Dell SAN now run in a cluster, so a failed host no longer stops the office. A WatchGuard firewall cluster protects the office with no single point of failure.

10 Gbit networking links every device through a Dell core switch, with dark fibre bringing 1 Gbit internet. 120 Dell workstations run the CAD drawing work, with 20 laptops for admin staff. Office 365 covers email and Teams, while data storage and project processing stay on-premises.

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