

Options for an Immutable Backup Storage Solution

Option	Benefits	Drawbacks	Capital Expenditure	Operational Expenditure	Overall assessment
Supplier A (Hardware solution)	Supplied by Backup Solution provider so integrates very well.	Takes up rack space, high power requirement, located within our data centre so little redundancy.	High (hardware purchase)	Medium (power use)	Self-hosting introduces too high dependency on our data centre. Cost of hardware is high.
Supplier A (Cloud solution)	Supplied by Backup Solution provider so integrates very well. Uses known storage supplier with good resilience	Storage paid by TB, so storage requirements need forecasting	None	High (annual storage cost)	No setup costs, known reliable supplier with simple integration
Supplier B (Cloud solution)	Well known supplier with good resilience	Clunky integration with backup solution	None	Very high (annual storage cost)	Higher costs than Supplier A with a more complex integration
Supplier C (Manual Solution)	Lower cost and full control	Relies on manual work – susceptible to mistakes and being missed	None	High (staff time)	Risk of human error is too high.
Do nothing	No costs	No immutable backups	None	None	Not viable solution as requirements not met.

Recommended solution: Supplier A's cloud solution – compared to Supplier B, costs are lower and it has far improved integration with our backup system.