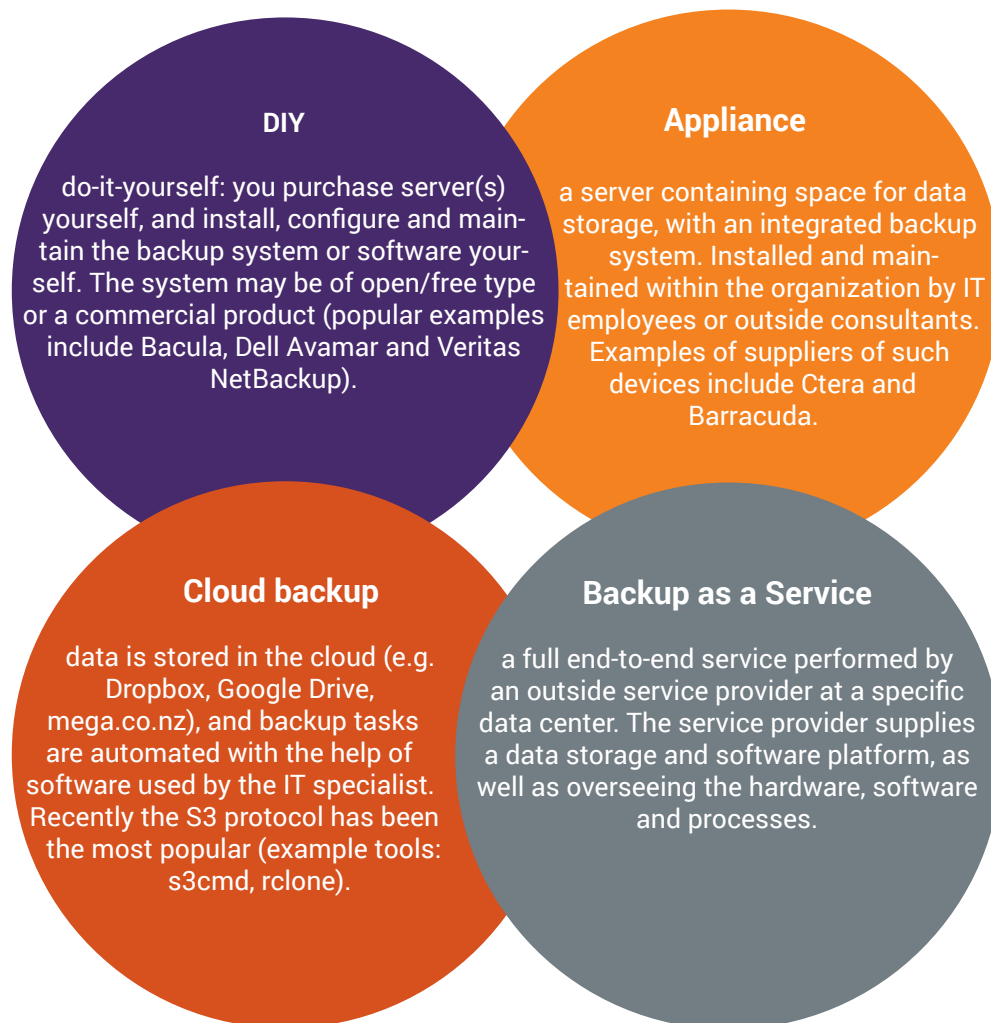


Atman Backup – compare it with others

In an environment where best IT practices are applied, the “3-2-1” backup rule is used. This means that **three** backups should be made, using **two** different technologies (on different media), and **one** copy should always be kept outside the company’s offices. Ambitious IT departments maintaining the highest standards apply the additional rule that **all data storage locations** are backed up, and the key business principles are **communicated clearly to users**. This means that users know how often backups are made and in what time window, and from which past time point data will be restored if lost.

Irrespective of how closely the “3-2-1” rule is followed at a given organization, when selecting a tool the pragmatic question always needs to be asked: Which of the choices will suit my situation best?

Let us therefore take a look at four frequently used methods of making backups, and their respective advantages.



Four professional backup methods: DIY, appliance, cloud backup, Baas

Atman Backup is a solution in the BaaS category – the best choice for organizations looking for a backup system with such features as:

1. **The ability to “set it & forget it”**
2. **Ease of extension and modification**
3. **Encryption and replication of data – certainty of recovery**

The table below compares the selected methods of managing backups

	DIY	Appliance	Cloud	BaaS	
Location	In-house	In house	External	External	
Human error mitigation	<ul style="list-style-type: none"> • Immediate during normal operation • Greatly impaired in case of system problems, requires time and effort from specialists 	<ul style="list-style-type: none"> • Immediate during normal operation • Greatly impaired in case of appliance problems, requires intervention from the manufacturer 	<ul style="list-style-type: none"> • Immediate during normal operation • Possibly impaired in case of system problems, may require time and effort from specialists who developed the backup software. May be hindered due to the location (e.g. unavailability of Internet service) 	<ul style="list-style-type: none"> • Immediate during normal operation • The whole system is an organism designed so that any problems are invisible to the customer. May be hindered due to the location (e.g. unavailability of Internet service or private connection with the service provider) 	Speed of access to data
Problem of oversizing	Limited	Moderate	Moderate	High	
Functional flexibility	Normally limited because redundant architecture, which increases reliability, is normally not installed, and free/open software, lacking support, is often used	Good, because assistance can be requested from the manufacturer	Hardware faults are invisible to the customer; the service provider supplies a storage system with redundant components	Hardware faults are invisible to the customer; the service provider supplies a whole backup system based on redundant components	Hardware failure mitigation
Required knowledge	Applies	Applies	Does not apply	Does not apply	Ability to react to major growth in data
	Limited	Limited	Very good	Very good	
	Limited (depends on budget and specialists' available time)	Limited (depends on the system integrated with the appliance)	Limited (depends on budget and specialists' available time)	Usually very good (depends on the system offered by the service provider)	
	Usually high, assuming that the solution was designed and deployed by specialists working for the organization	Usually high – requires initial investment of time in learning the system	Very high – enables the workload to be shifted to software, with no need to deal with the data storage system	Highest – the user focuses on using the system, specialized servicing is additionally available from the service provider	Ease of use
	Highest – full understanding of every system component	High	Lower	Lowest – high degree of outsourcing to the service provider	
	Usually lowest, but subject to compromises on reliability, functionality and flexibility	Moderate	Low	Moderate, but provides good opportunities for optimization to reduce costs	Cost