

AtomJump Server Space Options

Security Profiles

Lease Land

- We lease the land and put multiple server 'sheds' onto the land as our needs grow.
- We will need security cameras on the sheds themselves, and dotted around the land area. The equipment needs to be tethered into the ground so that you cannot easily lift the equipment and run.
- We use a service such as Chubb (the cost is around \$30- \$40 / month, per land site) which is alarmed and can have a security person on-site within 10-15 minutes.

Pros	Cons
We are potentially independent of requiring to constantly maintain the servers. The servers just sit there and serve, unless there is a significant issue or more hardware needs to be added.	The sheds will need to look natural in the landscape, or they could become the target of passers-by.
"Security by obscurity". Our locations are not advertised anywhere, so anyone who wishes to target our servers for their data would need to know this from inside the organisation.	A smash and grab of the servers in the sheds is more feasible than e.g. in a warehouse.

Own Land

- A similar option to leasing land, with the main difference being we could potentially have someone living onsite

Pros	Cons
A person living onsite can do any server maintenance tweaks, and be ready should there be any thieves around.	The sheds will need to look natural in the landscape, or they could become the target of passers-by.
	We may not be able to have Chubb security services as the site would likely be more remote.

Lease Warehouse

- We lease an existing warehouse space, preferably with some existing security monitoring.

Pros	Cons
The parent company of the warehouse would usually have some security monitoring, already.	It is a valuable target for those in the know. One smash-and-grab, and hundreds of servers could be stolen.
Everything is housed under one roof, meaning there is only one or two routes into and out of the building. A smash and grab is less feasible than with a shed.	We cannot control the setup, or the awareness of what is in there, as well. E.g. the parent company of the warehouse may not be as careful as we are about the information.
We don't need to advertise that we are located in there as tenants.	Even for a casual thief (who is not in the know about the contents), a warehouse is probably a reasonable target. Our servers could be a part of an 'accidental' smash-and-grab.

Own Warehouse

- We purchase or build our own warehouse space

Pros	Cons
We can set up physical security to the level that we want, including security guards, swipe card entry etc.	The building becomes a high-value target. One smash-and-grab, and hundreds of servers could be stolen or damaged.
Everything is housed under one roof, meaning there is only one or two routes into and out of the building. A smash and grab is less feasible than with a shed.	By law we need to advertise our business name on the premises.
	Our staff become the softest target, in terms of gaining access.

Shared Personal Space

- We have an agreement in place with an external contractor: they invest in a garden shed, or make an existing space available to us. Our staff maintain the servers held there, and potentially monitor it's security, remotely via security camera. The external contractors are paid a royalty on earnings from the servers.

Pros	Cons
Each server only stores data for a small fraction of the overall service (e.g. 1 / 3000 th of the total global service).	External contractors need to be incentivised enough to not want to steal the servers themselves. We can potentially hold the lock/key for each one.
Anyone wanting to do a targeted attack on the server's data would have to plan 3000 robberies in different locations.	If they are considered too easy to steal, we may need to encrypt the data on them, which could slow the services down somewhat.
Usually the contractor would be onsite themselves to ward off would-be thieves.	A garden shed needs to merge in with it's environment to be considered as an un-worthwhile target by thieves.