





Cloud Hosting vs. Self Hosting



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Cloud hosting is when an organization installs and accesses software on a server over the internet that is owned and managed by a third party organization. Self hosting is when an organization installs and accesses software from their own server. Self hosting is also often referred to as on premises or local hosting. When software applications are bundled with cloud hosting, this is referred to as Software as a Service (SaaS).

The OpenEMIS software is not platform dependent and can be either self hosted or cloud hosted on the OpenEMIS cloud servers. The OpenEMIS cloud servers are extremely reliable and highly secure as all data is encrypted. The OpenEMIS cloud servers are managed by highly technical support staff.

When deciding on cloud or self hosting, every organization is different and will have unique requirements. Choosing cloud or self hosting raises many questions; Do you have existing network and server infrastructure; or the capital to purchase new infrastructure; or the capital to upgrade and replace infrastructure? Do you have the technical knowledge or resources? Do you have a secure data center? Do you have a national data policy regarding the physical location of data?

There are advantages and disadvantages for both approaches:

	Self-Hosted	Cloud Hosted
Infrastructure Costs	Larger capital costs for network and server infrastructure is required every 3 to 5 years	Smaller recurrent costs every month or year based on the IT resource utilization
Human Resource Costs	Need to employ or contract highly technical system administrators	Included in the cloud hosting cost
Facility Costs	Secure data center with high availability power, cooling, networking, rack space and 24 hour monitoring is recommended	Included in the cloud hosting cost
Speed	Infrastructure needs to be purchased, installed and configured which can take weeks or months	Servers can be quickly added, removed, upgraded or downgraded
Control	Complete control over infrastructure	Limited control over infrastructure
Disaster Recovery	Servers are installed in different data centers	Servers are configured in different locations







	Self-Hosted	Cloud Hosted
Scalable	New infrastructure needs to	Additional infrastructure can
	be purchased	be enabled or disabled
Internet	Not required if there is an	Cloud hosting requires a good
	existing intranet. Using an	internet connection
	existing intranet could be	
	faster and cheaper.	
Security	Physical security needs to be	Included in the cloud hosting
	implemented and	cost
	monitored	
Responsibility	Need to take full	Cloud hosting provider takes
	responsibility for any issues	responsibility for any issues
	with the infrastructure	with the infrastructure
Maintenance	Regular maintenance and	Included in the cloud hosting
	software updates needs to	cost
	be performed	

Based on many of the comparative advantages of cloud hosting mentioned above, many organizations and government agencies are migrating their Information systems to cloud hosting as it proves to be more cost-effective, flexible, secure and reliable in the long term. For example, banks use cloud hosting for some of their applications despite sensitiveness of their data. A report from the United Nations notes that "there are no general case for government policy and regulation to discourage migration towards the cloud. Rather than that, with careful assessment of the pros and cons of cloud solutions, governments are encouraged to build a framework for firms and organizations that wish to move to the new approach and recognize the diversity of business models and services available".

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